RiskAgility FM Audit Report

Solution Name	RA_Unify_Life_v97
Project Name	RA_Unify_Life_v97
Job Name	Base (14)
Report Created By	CLAL-INS\arikt
Report Created On	7/24/2025 12:43:28 PM (UTC+03:00)

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1 Summary

1.1 Job Information

Job Name: Base (14)

Submitted On: 7/24/2025 12:43:19 PM (UTC+03:00)
Completed On: 7/24/2025 12:43:21 PM (UTC+03:00)

Submitted By: CLAL-INS\arikt
Job Status: Completed

Project Name: RA_Unify_Life_v97

Project Folder: C:\RAFM\Life Source Control

Edition: Team
Execution Engine: Gen2
RiskAgility FM Version: 3.7

1.2 Output File Details

Output Type	File Location	Modified On	File Size
Projection Output	\\vismoses01\moses\$\Data Files\Output\2412\Life\Model v97\Base (14)\Solvency_Base~life.csv	7/24/2025 12:43:20 PM (UTC+03:00)	896.5 KB (918033 Bytes)
Individual File	\\vismoses01\moses\$\Data Files\Output\2412\Life\Model v97\Base (14)\Solvency_Base~life@indiv.csv	7/24/2025 12:43:20 PM (UTC+03:00)	5.1 KB (5194 Bytes)

1.3 Job Details

Projection Set Loops

None

1.3.1 Pre Sub Loops

k Name	Order	Status	Projection	Dependencies	Input Manager	Target Object	Parameter Sets		
			Task Loops				Goal Seek	Output	Run

1.3.2 Sub Loops

Projection Set Sub Loops

None

-	Task Name	Order	Status	Projection	Dependencies	Input Manager	Target Object	Parameter Sets		
				Task Loops				Goal Seek	Output	Run

1.3.3 Post Sub Loops

Task Name	Order	Status	Projection	Dependencies	Input Manager	Target Object	Parameter Sets		
			Task Loops				Goal Seek	Output	Run

1.3.4 No Sub Loops

Task Name	Order	Status	Projection Task Loops	Dependencies	Input Manager	Target Object	Parameter Sets		
							Goal Seek	Output	Run
Base (Solvency)	1	Completed	None	None	, ,	life.profit_net_vif _pv,age_last,allo c_units,bonus_s himur,expense_ clm,coverage_u nits,expense_init ,claims_insuranc		OPS_Unify	RPS_main

Task Name	Order	Status	Projection Task Loops	Dependencies	Input Manager	Target Object	Parameter Sets	5	
							Goal Seek	Output	Run
						e,expense_ren,b			
						e_retire,int_cred,			
						cal_month,cal_y			
						ear,comm_reg,c			
						omm_profit,clai			
						ms_annuity_gt,			
						mgt_fees_prem,			
						prem_insurance,			
						prem_savings,u			
						nits_for_takeup,			
						cashflow_b,servi			
						ce_units,cashflo			
						w_e,service_unit			
						s_pv,cashflow_p			
						v,cashflow_re_b,	,		
						cashflow_re_e,c			
						ashflow_re_pv,c			
						harges_premium			
						,charges_premiu			
						m_pv,claims_an			
						nuity,claims_ann			
						uity_nogt,claims			
						_annuity_pv,clai			
						ms_death,claims			
						_death_pv,claim			
						s_disability,claim			
						s_disability_pv,cl			
						aims_maturity,cl			
						aims_maturity_p			
						v,claims_pv,clai			
						ms_re,claims_su			
						rrender,claims_s			
						urrender_pv,clai			
						ms_total,comm_			
						clawback,comm			
						_clawback_pv,c			
						omm_hekef,com			
						m_nihul,comm_			
						prize,comm_pv,			
						comm_re,comm			
						_re_prof,comm_			

Task Name	Order	Status	Projection Task Loops	Dependencies	Input Manager	Target Object	Parameter Sets	S	
							Goal Seek	Output	Run
						regular,comm_r			
						enewal,comm_r			
						eserve,comm_re	;		
						serve_pv,comm			
						_supervisor,com			
						m_total,cover_c			
						harge,dac_book			
						dac_tax,death_b			
						enefit,death_clai			
						m_si,death_clai			
						m_units,death_r			
						ate,expense_cla	i		
						ms_pv,expense			
						_inflation,expens			
						e_initial_fix,expe			
						nse_initial_perc,			
						expense_invest			
						ment,expense_i			
						nvestment_pv,e			
						xpense_pv,expe			
						nse_ren_charge			
						expense_ren_ch			
						arge_pv,expens			
						e_ren_fix,expen			
						se_ren_perc,exp			
						total,expense			
						var_pv,interest_i			
						e,interest_re_pv	,		
						investment_inco			
						me,investment_i			
						ncome_chetz,in\	/		
						estment_income			
						_chetz_pv,inves			
						ment_income_p			
						v,lapse_rate_act			
						_prm,lapse_total			
						_prm,managem			
						ent_fees,manag			
						ement_fee_pv,cl			
						aims_annuity_n			
						ogt_pv,pol_fee,p)		

Task Name	Order	Status	Projection Task Loops	Dependencies	Input Manager	Target Object	Parameter Sets	5	
							Goal Seek	Output	Run
						ol_fee_pv,premi			
						um,premium dis			
						c,premium_disc			
						_pv,premium_ex			
						tra,premium_gro			
						ss,premium_if_b			
						,premium_if_ride			
						rs,premium_pv,p			
						remium_re,profit			
						_book_active_vif			
						,profit_bk_act_vi			
						f_pv,profit_book			
						_vif_pv,profit_bo			
						ok_vif,profit_net			
						_vif,profit_re_pv,			
						proj_month,proj_			
						year,pup_rate_p			
						rm,rein_claims_			
						pv,rein_comm_p			
						v,rein_prem_pv,r	•		
						es_ann_deficien			
						cy,reserve,reser			
						ve_annuity,reser			
						ve_basic,reserv			
						e_claims,reserv			
						e_extra,reserve_			
						increase,surr_va			
						lue,reserve_incr			
						ease_pv,reserve			
						_re,reserve_re_i			
						ncrease,reserve			
						_re_increase_pv			
						,sum_insured,su			
						m_insured_if_e,			
						surv_prm,units_			
						e,units_bon,pre			
						mium_if_b_total,			
						cashflow_b_bef_	-		
						ret,cashflow_b_			
						post_ret,profit_b			
						ook_vif_pv_pos,			

Task Name	Order	Status	Projection Task Loops	Dependencies	Input Manager	Target Object	Parameter Sets	3	
							Goal Seek	Output	Run
						management_fe			
						es_fixed_ann,re			
						serve_pv,manag			
						e_fees_fixed_an			
						n_pv,manageme			
						nt_fees_var_acti			
						ve,management			
						_fees_var_ann,			
						manage_fees_v			
						ar_ann_pv,mana	1		
						ge_fees_fixe_ac			
						tive_pv,manage			
						_fees_var_activ			
						e_pv,manageme			
						nt_fees_fixed_a			
						ctive,capital_at_ı			
						isk,capital_at_ris			
						k_rm,ber_retire_			
						rm,bor_acc_pup	,		
						claims_annuity_ pv_rm,claims_d			
						eath_pv_rm,clai			
						ms_disability_pv			
						_rm,expense_pv			
						_rm,inv_income			
						_chetz_pv_rm,pr			
						ofit_book_vif_pv			
						_pos_rm,rid_cas			
						hflow_pv,comm_			
						renewal_pv,pre	-		
						mium_gross_fix,			
						premium_gross_			
						var,pol_month,p			
						ol_year,expense			
						_total_pre_ret,re			
						serve_increase_			
						bef_ret,investme			
						nt_income_bef_r			
						et,claims_lrc_q1	,		
						claims_lrc_yr2pl			
						us,bor_acc,bor_i			

Task Name	Order	Status	Projection Task Loops	Dependencies	Input Manager	Target Object	Parameter Sets		
							Goal Seek	Output	Run
						eturn,bor_return			
						_pup,comm_hek			
						ef_net,cashflow_	_		
						pv_e,claims_lrc_			
						q2,claims_lrc_q3			
						,claims_lrc_q4,cl			
						aims_re_lrc_q1,			
						claims_re_lrc_q			
						2,claims_re_lrc_			
						q3,claims_re_lrc			
						_q4,claims_re_lr			
						c_yr2plus,expen			
						se_claims_lrc_q			
						1,expense_claim			
						s_lrc_q2,expens			
						e_claims_lrc_q3	,		
						expense_claims			
						_lrc_q4,expense			
						_claims_lrc_yr2p			
						lus,riskadj_gross	3		
						_rel_q1,riskadj_			
						gross_rel_q2,ris			
						kadj_gross_rel_			
						q3,riskadj_gross			
						_rel_q4,riskadj_			
						gross_rel_total,ri			
						skadj_gross_rel			
						yr2plus,riskadj			
						re_rel_q1,riskadj			
						_re_rel_q2,riska			
						dj_re_rel_q3,risk			
						adj_re_rel_q4,ris			
						kadj_re_rel_total			
						riskadj_re_rel_y, r2plus,fvui,lapse			
						_rate_act_cnt,la pse_rate_act_ba			
						_prm,lapse_rate	'		
						_pm,iapse_rate			
							1		
				<u> </u>		te_cnt,pup_rate_	_		

Task Name	Order	Status	Projection Task Loops	Dependencies	Input Manager	Target Object	Parameter Sets	3	
			-				Goal Seek	Output	Run
						bal,surv_bal,risk			
						adj_gross,riskad	i		
						_net,coverage_u	i		
						nits_re,profit_bo			
						ok_vif_gross,pro			
						fit_book_vif_gro			
						ss_pv,surv_cnt,c	;		
						laim_cost,claim_			
						cost_pv,claim_c			
						ost_pv_rm,claim			
						_cost_re_pv,clai			
						m_cost_re,claim			
						_cost_re_pv_rm	,		
						rein_claims_pv_			
						rm,cover_charge			
						_pv,income_b,in			
						come_e,income			
						_pv,outgo_b,out			
						go_e,outgo_pv,c	:		
						ashflow,expense	:		
						_pv_active,expe			
						nse_pv_ann,exp			
						ense_investmen			
						t_pv_bef_ret,exp			
						ense_investmen			
						t_pv_post_ret,ex			
						pense_pv_active			
						_no_inv,comm_			
						not_res_pv,inve			
						stment_income_			
						pv_active,reserv			
						e_increase_pv_			
						active,profit_boo			
						k_vif_pv_active,			
						claims_maturity_			
						ret_pv,units_b,m			
						anagement_fee_	_		
						variable,sum_ins			
						ured_occ_gross,			
						sum_insured_oc			
						c_retent,claims_			

Task Name	Order	Status	Projection Task Loops	Dependencies	Input Manager	Target Object	Parameter Sets		
			•				Goal Seek	Output	Run
						retent,reserve_cl			
						aims_retent,pre			
						mium_disc_shim			
						ur,premium_disc			
						_shimur_pv,total			
						_bor_acc_pv,tot			
						al_bor_return_p			
						v,prem_savings			
						_pv,cashflow_pv			
						_chetz,nogt_ann			
						pv,claims_lrc_q1			
						_pv,claims_lrc_q			
						2_pv,claims_lrc_			
						q3_pv,claims_lrc			
						_q4_pv,claims_lr			
						c_yr2plus_pv,ex			
						pense_claims_lr			
						c_q1_pv,expens			
						e_claims_lrc_q2			
						_pv,expense_cla			
						ims_lrc_q3_pv,e			
						xpense_claims_l			
						rc_q4_pv,expen			
						se_claims_lrc_yr			
						2plus_pv,claims			
						_re_lrc_q1_pv,cl			
						aims_re_lrc_q2_			
						pv,claims_re_lrc			
						_q3_pv,claims_r			
						e_lrc_q4_pv,clai			
						ms_re_lrc_yr2pl			
						us_pv,riskadj_gr			
						oss_rel_q1_pv,ri			
						skadj_gross_rel			
						_q2_pv,riskadj_			
						gross_rel_q3_pv			
						riskadj_gross_r			
						el_q4_pv,riskadj			
						_gross_rel_total			
						_pv,riskadj_gros			
						s_rel_yr2plus_p			

Task Name	Order	Status	Status Projection Task Loops	Input Manager	Target Object	Parameter Sets		
						Goal Seek	Output	Run
					v,riskadj_re_rel_			
					q1_pv,riskadj_re	:		
					_rel_q2_pv,riska			
					dj_re_rel_q3_pv	,		
					riskadj_re_rel_q			
					4_pv,riskadj_re_			
					rel_total_pv,risk			
					adj_re_rel_yr2pl			
					us_pv			

1.4 Job Submission Settings

Create subfolder for Job Name

Overwrite existing files

Yes

Validate if External Source files exist

Yes

Wildcard Set Single Policy

Distribution Method None

Clear job working folder Clear only successful jobs

Profile wanted No
Rebasing checks No
Write column to log No
Write temporary table No
Track accessed files No
Odometer 100

Compiler settings Microsoft® Visual Studio® 2017, Version

14.16.27045.0, 64-bit

Memory Check ModeNoOutput ValidationNoTreat code from Additional Include Directories asNo

non-mutating by Gen2

Checking Level NoChecks

Lookups executed in Gen2 Classic No Scalars executed in Gen2 Classic No Extractions executed in Gen2 Classic No

1.5 Team Edition Settings

Team Foundation Server Path: https://tfsprod/tfs/clalbitcollection\$/RAFM/Development Life/Team/v43

1.5.1 Pending Changes

Document Type	Document Name	Pending Changes	Changeset
Project File	RA_Unify_Life_v97.msproj	No	708231
Referenced Files	Referenced Files.rfs	No	560957
Output Manager	OM Sens.opm	No	707207
Output Manager	OM Main.opm	No	707022
Output Manager	OM ESG.opm	No	706687
Input Manager	Input Manager.ipm	No	708231
Code Manager	Code Manager.mmf	No	708231
Run Manager	RM Life runs.rmr	No	708229
Output Parameter Set	OPS_ESG_0.ops	No	667645
Output Parameter Set	OPS_ESG.ops	No	666729
Output Parameter Set	OPS_ESG_Q_Yr1.ops	No	706687
Output Parameter Set	OPS_IFRS.ops	No	627535
Output Parameter Set	OPS_Sens.ops	No	706659
Output Parameter Set	OPS_Unify.ops	No	605491
Output Parameter Set	OPS_All.ops	No	604124
Output Parameter Set	OPS_ESG_ind.ops	No	640667
Output Parameter Set	OPS_ESG_Q.ops	No	677320
Run Parameter Set	RPS_ESG_5.rps	No	670036

Run Parameter Set	RPS_ESG_1.rps	No	702853
Run Parameter Set	RPS_ESG_5000.rps	No	692824
Run Parameter Set	RPS_quick.rps	No	604124
Run Parameter Set	RPS_model_points_NB.rps	No	629976
Run Parameter Set	RPS_NB.rps	No	604124
Run Parameter Set	RPS_model_points.rps	No	604124
Run Parameter Set	RPS_main.rps	No	696562
Wildcards	Wildcards.wcd	No	708207

2 Input Manager

2.1 Input Manager: Input Manager

2.1.1 Input Page: Annuity

2.1.1.1 Assumption Set: Base

Description:

Help:

Top Model Object:

Modified On: 12/11/2022 1:24:34 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Assumption Set Links: Unlinked

2.1.1.1.1 Input Variable: res prop data

Description: Proportion of old money from data

Help:

Associated Code Variables: res_prop_old_data,res_prop_newtag_data,res_prop

_piz_data,res_prop_prat_data

Modified On: 12/11/2022 2:20:00 PM (UTC+02:00)

Modified Bv: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 1

Choice List:

Value Type: External Source Value: Tzeva Kesef

2.1.1.1.2 Input Variable: piz_antiselection_adj

Description: Adjustment to anti-selection i.r.o. pizuim due to tax-

exempt limit

Help:

Associated Code Variables: piz_antiselection_adj

Modified On: 12/11/2022 1:25:31 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 100

Choice List:

Value Type: External Source Value: AnnuityTU

2.1.1.1.3 Input Variable: prat_antiselection_adj

Description: Adjustment to anti-selection i.r.o. private funds

Help:

Associated Code Variables: prat antiselection adj

Modified On: 2/22/2021 10:44:43 AM (UTC+02:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 100

Choice List:

Value Type: External Source Value: AnnuityTU

2.1.1.1.4 Input Variable: old_antiselection_adj

Description: Adjustment to anti-selection i.r.o. old tagmulim

Help:

Associated Code Variables: old_antiselection_adj

Modified On: 2/22/2021 10:44:47 AM (UTC+02:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 100

Choice List:

Value Type: External Source Value: AnnuityTU

2.1.1.1.5 Input Variable: gimla table

Description:

Help: PV of annuities at maturity (or at 'vesting date').

Deducted from single premium table.

Associated Code Variables: gimla_table

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To: Choice List: Value Type: External Source

Value: gimla

2.1.1.1.6 Input Variable: takeup_age

Description: Take-up age for annuities

Help:

Associated Code Variables: takeup_age

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: 0
Valid Range To: 100

Choice List:

Value Type: External Source

Value: Annuity

2.1.1.1.7 Input Variable: Types of Annuity Prop

Description: Table of policy ann factors & assumptions

Help:

Associated Code Variables: gtee_ppn,no_gtee_ppn,joint_life_ppn
Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: AnnuityTU

2.1.1.1.8 Input Variable: Retirement rate

Description: Percentage retiring at current age

Help:

Associated Code Variables: retirement_rate,prem_termination_rate

Modified On: 9/5/2019 11:19:02 AM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To: Choice List:

Value Type: External Source Value: AnnuityTU

2.1.1.1.9 Input Variable: annuity_value_res_tbl

Description: Reserve Deficiency table of annuity values at

maturity

Help: Value of annuity of 100 per month, by calender year

at maturity and sex_maturity-age_discount-rate.

Associated Code Variables: annuity_value_res_tbl

Modified On: 6/13/2021 12:26:32 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: T_Factors

2.1.1.1.10 Input Variable: annuity_detail_gtee_tbl

Description: Table of policy ann factors & assumptions

Help:

Associated Code Variables: ann fac gtee value

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: AnnuityDetails

2.1.1.1.11 Input Variable: annuity details tbl

Description: Table of policy ann factors & assumptions

Help:

Associated Code Variables: freeinv_res_ann,freeinv_res_ann_inpay,res_ann_mo

rt_fac,int_res_ann,res_ann_exp,gtee_prd,int_tarif,mg t_fee_fixed,mgt_fee_var,mgt_fee_max,life2_ppn,age _diff,redn_factor,base_year,ann_fac_dthben,ann_fac

_joint,ann_fac_no_gtee

Modified On: 9/12/2021 4:59:04 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: AnnuityDetails

2.1.1.1.12 Input Variable: Retirement rate ann

Description: Percentage retiring at current age

Help:

Associated Code Variables: retirement_rate

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To: Choice List:

Value Type: External Source Value: AnnuityTU

2.1.1.1.13 Input Variable: annuity_details_temp_tbl

Description: Table of policy ann factors & assumptions

Help:

Associated Code Variables: annuity_details_temp_tbl

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: AnnuityDetails

2.1.2 Input Page: Charges

2.1.2.1 Assumption Set: Base

Description: Help:

Top Model Object:

Modified On: 12/10/2023 11:11:51 AM (UTC+02:00)

Modified By: CLAL-INS\Arikt Assumption Set Links: Unlinked

2.1.2.1.1 Input Variable: mgtfee tbl

Description: Management fee table by format no.

Help:

Associated Code Variables: mgtfee age after,mgtfee acc after,mgtfee dthben,

mgtfee_senior,mgtfee_disc_mth,mgtfee_disc_after,m gtfee_orig,mgtfee_age,mgtfee_acc,mgtfee_from_dth ben,mgtfee max dthben,mgtfee from senior,mgtfee

_moor

Modified On: 4/24/2023 4:52:59 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: Valid Range To: Choice List:

External Source Value Type: Value: format_mgtfee

2.1.2.1.2 Input Variable: mgt deficit perc

Description: Management fee surplus/deficit as % of

accumulation

Help:

Associated Code Variables: mgt deficit perc

Modified On: 1/6/2020 11:51:04 AM (UTC+02:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Floating Point Number Variable Type:

Valid Range From: Valid Range To: Choice List:

Value Type: **External Source Economic** Value:

2.1.3 **Input Page: Claims**

2.1.3.1 Assumption Set: Base

Description: Help:

Top Model Object: life

Modified On: 3/16/2023 10:57:31 AM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Assumption Set Links: Unlinked

2.1.3.1.1 Input Variable: claim cost factors tbl

Description: Claims Cost Table for Profil Riders Help:

Annuity Factors applied to claims of type

PHI/FIB/LTC etc.

Factors are in respect of 1 sheckel monthly benefit.

Associated Code Variables: claim_cost_factors_tbl

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0 Valid Range To:

Choice List:

Value Type: **External Source**

Value: profil rider claims annuity fac

2.1.3.1.2 Input Variable: claim rates tbl

Description: claim rates table for Profil riders

Help:

Associated Code Variables: claim rates tbl

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source
Value: profil decrement rates

2.1.3.1.3 Input Variable: claims_cost_factors_tbl

Description: claim cost factors table (annuity factors)

Help: PV of future claim payments (here: as multiplyer of

the sum assured).

Associated Code Variables: claims cost factors tbl

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source

Value: claim_cost_phi12_ltc07

2.1.3.1.4 Input Variable: clms_mult_infl

Description: Claims Multiplier table (%)

Help:

Associated Code Variables: clms_mult_infl

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: clms_mult

2.1.3.1.5 Input Variable: clms mult i

Description: Claims Multiplier table (%)

Help:

Associated Code Variables: clms_mult_i

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: clms_mult

2.1.3.1.6 Input Variable: clms mult tt

Description: Claims Multiplier table (%)

Help:

Associated Code Variables: clms_mult_tt

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: clms_mult

2.1.3.1.7 Input Variable: recovery_rates_tbl

Description:

Help:

Associated Code Variables: recovery_rates_tbl

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To: Choice List:

Value Type: External Source Value: phi_recover

2.1.3.1.8 Input Variable: Various_Parameters

Description:

Help: Maximum cumulative claim inflation allowed (for

health products). As a percentage.

For example, 200 means that the claims inflation will stop if and when the claims reach double the base

assumption.

Associated Code Variables: claim_inflation_max,claim_inflation_max_re,min_ytro

n_perc,pizui_prop_pup_stat_c

Modified On: 5/29/2025 11:26:15 AM (UTC+03:00)

Modified By: CLAL-INS\arikt

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: (

Valid Range To: 100000

Choice List:

Value Type: External Source Value: Parameters

2.1.4 Input Page: Commission

2.1.4.1 Assumption Set: Base

Description:

Help:

Top Model Object:

Modified On: 5/4/2022 11:23:31 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Assumption Set Links: Unlinked

2.1.4.1.1 Input Variable: comm extra tbl

Description: Extra commission table (%)

Help: Extra and Shimur Tik commissions (manual

commns) expressed as a % of New Premium by Production Year or all years (if year is omitted).

Associated Code Variables: comm extra tbl

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: comm_extra

2.1.4.1.2 Input Variable: comm extra agent tbl

Description: Extra commission table (%) by Osek Mureshe

Help: Super commission expressed as a % of initial regular

commissions or % of premium.

Associated Code Variables: comm_extra_agent_tbl

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source
Value: comm_extra_agent

2.1.4.1.3 Input Variable: comm_claw_prpn_tbl

Description: Clawback proportion table

Help: Table of clawback in each policy month as a

proportion of the initial commission paid.

Associated Code Variables: comm_claw_prpn_tbl

Modified On: 6/29/2021 5:03:17 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: commclaw

2.1.4.1.4 Input Variable: comm ren perc prem mrtg

Description: Renewal Commission (%) for mortgage policies sold

after 04/2007 and after 16 yrs vetek

Help:

Associated Code Variables: comm_ren_perc_prem_mrtg

Modified On: 1/26/2022 10:06:20 AM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To: Choice List:

Value Type: External Source Value: Parameters

2.1.5 Input Page: DAC

2.1.5.1 Assumption Set: Base

Description:

Help:

Top Model Object: life

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Assumption Set Links: Unlinked

2.1.5.1.1 Input Variable: dac amort type

Description:

Help:

DAC amortisation type

DAC amortisation type

dac amort type

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: 0
Valid Range To: 0

Choice List: Fixed,Lifetime
Value Type: External Source
Value: Parameters

2.1.5.1.2 Input Variable: dac cap apply

Description: Apply capital requirement of x% of DAC

Help: The percentage of the DAC for books that has to be

retained in the company's capital

Associated Code Variables: dac_cap_apply

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From:0Valid Range To:100Choice List:Y,N

Value Type: External Source Value: Parameters

2.1.5.1.3 Input Variable: dac book adj factor

Description: Adjustment factor for Dac book (to scale up DAC to

actuals)

Help:

Associated Code Variables: dac_book_adj_factor_input

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To: Choice List:

Value Type: External Source Value: Economic

2.1.5.1.4 Input Variable: dac tax adj factor

Description: Adjustment factor for Dac tax (to scale up DAC to

actuals)

Help:

Associated Code Variables: dac tax adj factor input

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To: Choice List:

Value Type: External Source Value: Economic

2.1.6 Input Page: Economic

2.1.6.1 Assumption Set: Solv_Base

Description:

Help:

Top Model Object:

Modified On: 5/29/2025 11:37:54 AM (UTC+03:00)

Modified By: CLAL-INS\arikt
Assumption Set Links: Unlinked

2.1.6.1.1 Input Variable: fund rates tbl

Description: Table of parameters by fund

Help: Model fund name/number, based on actual fund

number from data file

Associated Code Variables: fund_name,par_npar,dactype,invinc,var_mgt_fee,fixe

d_mgt_fee,intres,intres_puresav,dac_book_fac,dac_t ax_fac,cap_req_perc_premium,cap_req_perc_reserv e,mort_res,mort_addn,ann_series,fixed_mgt_fee_ter_

m,tat_shnatiut_assum,max_chetz

Modified On: 6/27/2024 12:45:16 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source

Value: fundrate

2.1.6.1.2 Input Variable: fund_rates_code_tbl

Description: Table of parameters by fund Help: Read in set_exp_variables.

Associated Code Variables: fund_rates_code_tbl

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source

Value: fundrate

2.1.6.1.3 Input Variable: inv rates

Description: Investment income rate (%)

Help: Annual investment income rate on free assets.

This is average with the fund-specific rate on special bonds, to obtain inv_rate_mth_w which is used in the

projection.

This may vary by calender year. The array index = calender year - valn_year + 1. In the fund rate table inv_free may be entered for a specific calender year.

Associated Code Variables: inv_rate_rollup

Modified On: 8/25/2022 12:48:07 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error

Variable Type: Floating Point Array

Valid Range From: -100
Valid Range To: 100

Choice List:

Value Type: External Source Value: Economic

2.1.6.1.4 Input Variable: Yield pre ret

Description: Risk free investment & discount rates

Help:

Associated Code Variables: inv_rate_m

Modified On: 8/25/2022 11:48:32 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: RFR_Solv

2.1.6.1.5 Input Variable: Yield post ret

Description: Risk free investment & discount rates

Help:

Associated Code Variables: ann_inv_rate_m

Modified On: 8/25/2022 11:48:49 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source

Value: RFR_Solv

2.1.6.1.6 Input Variable: Discounting_pre

Description: Risk free investment & discount rates

Help:

Associated Code Variables: disc rate m

Modified On: 8/25/2022 2:05:11 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: RFR_Solv

2.1.6.1.7 Input Variable: Yield_pre_ret_ifrs

Description: Risk free investment & discount rates IFRS

Help:

Associated Code Variables: inv rate m ifrs

Modified On: 6/27/2024 12:45:49 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: RFR_IFRS

2.1.6.1.8 Input Variable: Yield post ret ifrs

Description: Risk free investment & discount rates IFRS

Help:

Associated Code Variables: ann_inv_rate_m_ifrs

Modified On: 6/27/2024 12:45:54 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: RFR_IFRS

2.1.6.1.9 Input Variable: Discounting pos

Description: Risk free investment & discount rates

Help:

Associated Code Variables: ann_disc_rate_m

Modified On: 8/25/2022 2:05:14 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: RFR_Solv

2.1.6.1.10 Input Variable: Discounting_NoVA

Description: Risk free investment & discount rates

Help:

Associated Code Variables: inv rate rm m

Modified On: 8/25/2022 11:48:57 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: RFR_Solv

2.1.6.1.11 Input Variable: tax rate

Description: Lookup value coode variable wildcard

Help:

Associated Code Variables: tax rate

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To: Choice List:

Value Type: External Source

Value: tax_rates

2.1.6.1.12 Input Variable: CU_Discounted

Description: Discount coverage units

Help:

Associated Code Variables: cu_discounted

Modified On: 8/5/2024 3:40:52 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: Valid Range To: Choice List:

Value Type: External Source Value: Parameters

2.1.6.1.13 Input Variable: fund group

Description: Fund Group

Help:

Associated Code Variables: fund group

Modified On: 8/5/2024 4:42:41 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From:

Valid Range To:

Choice List:

Value Type: External Source

Value: fundrate

2.1.6.1.14 Input Variable: fundgroup manual

Description: Fund Group

Help:

Associated Code Variables: fundgroup_manual

Modified On: 8/5/2024 4:50:02 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Validation Failure Behaviour: Default
Variable Type: Character

Valid Range From: Valid Range To: Choice List:

Value Type: External Source

Value: fundrate

2.1.6.1.15 Input Variable: free inv ratio tbl

Description: Free investment ratio by fund

Help:

Associated Code Variables: free_inv_ratio_tbl

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: FreeInvRatio

2.1.6.1.16 Input Variable: fund rates tbl yesodi

Description: Table of parameters by fund

Help:

Associated Code Variables: par npar yesodi

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source

Value: fundrate

2.1.6.1.17 Input Variable: Economic Char

Description: Economic_Assumptions - Character

Help: EV Dscount rate to use for the run:

Vector= uses the input discount vector (v-month_t) Single = replaces discount vector based on the

single input rate

Associated Code Variables: ev_discount_rate_type,start_int_proj_after_rollup,esg

_run,phi_res_discount_rate_type

Modified On: 1/18/2024 2:21:28 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: 0
Valid Range To: 0

Choice List: Single, Vector, Earned Value Type: External Source Value: Economic

2.1.6.1.18 Input Variable: Economic Num

Description: Economic_Assumptions - Number

Help: Investment margin used as discount rate for annuity

deficiency reserve

Associated Code Variables: ann def res inv margin,ann def res inv margin p

ar,ev_disc_rate,vat,mortg_int

Modified On: 5/10/2022 3:04:05 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 100

Choice List:

Value Type: External Source

Value: Economic

2.1.6.1.19 Input Variable: Cols_of_Money_Prop

Description:

Help:

Associated Code Variables: ann_tu_old,ann_tu_old_res,ann_tu_piz,ann_tu_piz_r

es,ann_tu_prat,ann_tu_prat_res,ann_tu_newtag_res,

ann_tu_newtag

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To: Choice List:

Value Type: External Source Value: AnnuityTU

2.1.6.1.20 Input Variable: temp_fund_rates_tbl ann

Description: Table of parameters by fund

Help:

Associated Code Variables: temp_fund_rates_tbl

Modified On: 5/18/2023 9:47:12 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source

Value: fundrate

2.1.6.1.21 Input Variable: fund_t_factor

Description: Table of parameters by fund

Help:

Associated Code Variables: fund t factor

Modified On: 5/18/2023 9:56:01 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source

Value: fundrate

2.1.6.1.22 Input Variable: fund rates tbl temp

Description: Table of parameters by fund

Help:

Associated Code Variables: ann series temp

Modified On: 6/30/2021 10:14:45 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source

Value: fundrate

2.1.6.1.23 Input Variable: prop_gteedint_post_maturity

Description: Prop of partcipating policies getting Guar int rate post

maturity

Help:

Associated Code Variables: prop_gteedint_post_maturity

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 1

Choice List:

Value Type: Code Default

Value: 0

2.1.7 Input Page: Expenses

2.1.7.1 Assumption Set: Base

Description:

Help:

Top Model Object:

Modified On: 10/26/2021 1:26:22 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Assumption Set Links: Unlinked

2.1.7.1.1 Input Variable: exp_dac_perc

Description: Proportion of initial expenses deferred (in DAC)
Help: Proportion (%) of initial expenses that are deferable

to the DAO

in the DAC.

Associated Code Variables: exp_dac_perc

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 100

Choice List:

Value Type: External Source Value: Parameters

2.1.7.1.2 Input Variable: exp mult tbl

Description: Expense multipliers (%)

Help: Expense multipliers table for initial and renewal

expenses.

Associated Code Variables: exp_mult_tbl

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 100

Choice List:

Value Type: External Source

Value: exp_mult

2.1.7.1.3 Input Variable: expense tbl

Description: Expense table

Help:

Associated Code Variables: i_perpol_sp,i_single,m_pup,i_perpol,i_prem,m_prem,

m_perpol,m_clms,m_ann_pmt,m_res_par,m_res_no npar,m_res,i percov,m_percov,i percov_sp,m_percov

ov_sp,m_clms_cov,exp_madad

Modified On: 4/28/2022 4:42:37 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source

Value: expense

2.1.8 Input Page: Lapses

2.1.8.1 Assumption Set: Solv_Base

Description:

Help:

Top Model Object:

Modified On: 12/23/2024 8:54:37 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Assumption Set Links: Unlinked

2.1.8.1.1 Input Variable: various parameters

Description: various parameters

Help: For "achrayut le'chaim" product.

The percetage of normal lapses experienced by

polices that continue after a claim.

(the first claim is from the group that allows the policy

to continue at 50%).

Associated Code Variables: secondary lapse mult, fix term end age limit, fix te

rm curr age max,fix term new end age,fix term

curr_age_above_max_add_months

Modified On: 11/29/2021 7:44:32 AM (UTC+02:00)
Modified By: CLAL-INS\joshm

Validation Failure Behaviour:

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 1000

Choice List:

Value Type: External Source Value: Parameters

2.1.8.1.2 Input Variable: sur_val_method

Description: various parameters

Help: Different ways to calculate surrender values:

"sv_table" = SV looked up from table.

"perc_res" = SV is a percentage of reserve.

Percentages come from array variable

"sur_val_perc" by policy year. This method is useful for old products that do not have tables available.

Associated Code Variables: sur val method

Modified On: 3/27/2023 4:00:52 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: 0
Valid Range To: 1000

Choice List:

Value Type: External Source Value: Parameters

2.1.8.1.3 Input Variable: lapse factor y1

Description: Agent Lapse factors table

Help:

Associated Code Variables: lapse_factor_y1

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0

Valid Range To: 0

Choice List:

Value Type: External Source Value: lapse_factor

2.1.8.1.4 Input Variable: lapse clawback factor

Description: Agent Lapse factors table

Help:

Associated Code Variables: lapse_clawback_factor

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: lapse_factor

2.1.8.1.5 Input Variable: lapse_factor_yplus

Description: Agent Lapse factors table

Help:

Associated Code Variables: lapse_factor_yplus

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: lapse_factor

2.1.8.1.6 Input Variable: lapse rate im

Description: Lapse rates table (%)

Help:

Associated Code Variables: lapse rate im

Modified On: 1/15/2023 2:58:01 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source

Value: lapse

2.1.8.1.7 Input Variable: lapse rider profil dth

Description: Lapse rates table (%)

Help:

Associated Code Variables: lapse rider profil dth

Modified On: 1/15/2023 2:55:17 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source

Value: lapse

2.1.8.1.8 Input Variable: lapse_rider_other

Description: Lapse rates table (%)

Help:

Associated Code Variables: lapse rider other

Modified On: 1/15/2023 3:02:51 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source

Value: lapse

2.1.8.1.9 Input Variable: lapse rate pup im

Description: Lapse rates table (%)

Help:

Associated Code Variables: lapse rate pup im

Modified On: 1/15/2023 2:58:16 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source

Value: lapse

2.1.8.1.10 Input Variable: puv_09_tbl

Description: Composite external source

Help:

Associated Code Variables: puv_09_tbl

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To: Choice List:

Value Type: External Source Value: puv_composite

2.1.8.1.11 Input Variable: masslaps tbl

Description: Lapse rate table by flag_code for solvency scenario

Help:

Associated Code Variables: masslaps_tbl

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: mass_lapse_tab

2.1.8.1.12 Input Variable: surr_chg_tbl

Description: Surrender charges table

Help: Contains penalty rates on surrender.

Associated Code Variables: surr_chg_tbl

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source

Value: surr_chg

2.1.8.1.13 Input Variable: pup_ltc_tbl

Description:

Help:

Associated Code Variables: pup_ltc_tbl

Modified On: 9/12/2021 4:59:54 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: External Source

Value: pup

2.1.8.1.14 Input Variable: pup_ltc_tbl_next

Description:

Help:

Associated Code Variables: pup_ltc_tbl_next

Modified On: 9/12/2021 4:59:58 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To: Choice List:

Value Type: External Source

Value: pup

2.1.8.1.15 Input Variable: lapse_factor_proj

Description: Lapse factor by proj_yr

Help:

Associated Code Variables: lapse_factor_proj

Modified On: 12/19/2024 3:34:09 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: lapse_factor_proj

2.1.8.1.16 Input Variable: lapse factor proj rider

Description: Lapse factor for rider by proj_yr

Help:

Associated Code Variables: lapse factor proj rider

Modified On: 12/19/2024 3:35:42 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: lapse_factor_proj

2.1.8.1.17 Input Variable: lapse_factor_profil_rider

Description: Lapse factor for rider by proj yr

Help:

Associated Code Variables: lapse factor profil rider

Modified On: 12/23/2024 8:58:12 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: lapse_factor_proj

2.1.9 Input Page: Margins

2.1.9.1 Assumption Set: Solv_Base

Description:

Help:

Top Model Object:

Modified On: 3/1/2023 11:13:36 AM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Assumption Set Links: Unlinked

2.1.9.1.1 Input Variable: asset shock

Description: Asset Shock (to replace investment income)

Help:

Associated Code Variables: asset_shock

Modified On: 12/4/2022 8:58:06 AM (UTC+02:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: -100
Valid Range To: 100

Choice List:

Value Type: External Source Value: Asset_Shocks

2.1.9.1.2 Input Variable: prem disc scenario

Description: Prem Disc for Scenario

Help:

Associated Code Variables: prem disc scenario

Modified On: 11/29/2020 3:48:35 PM (UTC+02:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 100

Choice List:

Value Type: External Source Value: Discount_Scenarios

2.1.9.1.3 Input Variable: mgt fee disc

Description: Discount on management fees

Help:

Associated Code Variables: mgt fee disc

Modified On: 11/29/2020 3:49:36 PM (UTC+02:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 100

Choice List:

Value Type: External Source
Value: Discount_Scenarios

2.1.9.1.4 Input Variable: Margins_Char

Description: Scenarios Sets - Character variables Help: Add margins to assumptions Y/N ?

(expenses, mortality and lapses) eg tor DAC Recoverability test.

Associated Code Variables: margin add,margin add asset,margin add discoun

 $t, margin_add_cat, prem_disc_shimur_flag$

Modified On: 2/11/2024 4:57:37 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: Valid Range To:

Choice List: Y,N

Value Type: External Source

Value: margins

2.1.9.1.5 Input Variable: Margins Number

Description: Scenarios Sets - Number variables
Help: only added if margin_add = Y

Associated Code Variables: margin_exp_ini_fix,margin_exp_ini_pc,margin_exp_r

en_fix,margin_exp_ren_pc,margin_lapses,margin_m ort_pc,margin_claims,margin_ann_mort_pc,margin_ annuity_takeup,margin_recover,margin_1styr_clms_add,infl_rate_expenses,cat_risk,lapse_force_month,lapse_force_rate_input,margin_claim_cost_mitriya,m

argin res ann mort fac

Modified On: 3/17/2024 1:54:44 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: -100
Valid Range To: 1000

Choice List:

Value Type: External Source

Value: margins

2.1.10 Input Page: Mortality

2.1.10.1 Assumption Set: Base

Description: Help:

Top Model Object:

Modified On: 7/23/2024 3:33:58 PM (UTC+03:00)

Modified By: CLAL-INS\arikt Assumption Set Links: Unlinked

2.1.10.1.1 Input Variable: death_rates_tbl

Description:

Help:

Associated Code Variables: death rates tbl

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To: Choice List:

Value Type: External Source Value: death_rates_comp

Description:

Help:

Associated Code Variables: sv_09_tbl

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: External Source Value: sv_composite

2.1.10.1.3 Input Variable: sv_09_tbl_check

Description:

Help:

Associated Code Variables: sv 09 tbl check

Modified On: 10/17/2021 4:46:15 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To: Choice List:

Value Type: External Source Value: sv_composite

2.1.10.1.4 Input Variable: decrement rates

Description: Decrement rate tables

Help: Decrement table by sex and smoker status.

If set by prodcode = "Y" then table is set based on

"risk_rates" in prod assumptions table.

Not relevant for health and death benefits.

Associated Code Variables: decrem_rates,decrem_rates_res

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: decrem_rates_com

2.1.10.1.5 Input Variable: decrement rates check

Description: Decrement rate tables

Help: Decrement table by sex and smoker status.

If set_by_prodcode = "Y" then table is set based on

"risk rates" in prod assumptions table.

Not relevant for health and death benefits.

Associated Code Variables: decrem_rates_check

Modified On: 7/27/2021 11:56:06 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source

Value: decrem_rates_com

2.1.10.1.6 Input Variable: decrement rates by UW date

Description: Decrement rate tables

Help: Decrement table by sex and smoker status.

If set_by_prodcode = "Y" then table is set based on

"risk rates" in prod assumptions table.

Not relevant for health and death benefits. decrem_rates_uw,decrem_rates_uw_res 3/19/2024 7:30:07 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Modified On:

Associated Code Variables:

Value Type: External Source

Value: decrem rates uw com

2.1.10.1.7 Input Variable: decrem_mult_tbl

Description: decrement multiplier table (%)

Help: Percentage of basic decrement table used for all

lives, split by M/F, S/NS/A, occupation class and

product type.

Associated Code Variables: decrem_mult_tbl

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To: Choice List:

Value Type: External Source

Value: decrmult

2.1.10.1.8 Input Variable: mort mult end age

Description: Age from which to phase-out mortality multiplier

Help: At this age the mortality multiplier will gradually be

phased-out (i.e. approach 100%) until the omegaage, so that at very old ages the base mortality table

is less effected by the multiplier.

Associated Code Variables: mort_mult_end_age

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: 0

75 Valid Range To:

Choice List:

Value Type: **External Source** Value: **Parameters**

2.1.10.1.9 Input Variable: antisel margin

Description: Antiselection margin for Annuity Old money

Help:

Associated Code Variables: antisel margin

Modified On: 6/30/2024 2:51:20 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: Valid Range To: 75

Choice List:

External Source Value Type: Value: **Parameters**

2.1.10.1.10 Input Variable: mort mult tbl

Description: Mortality multiplier table (%)

Help: Percentage of basic mortality table used for all lives,

split by M/F, S/NS/A, and product type.

Associated Code Variables: mort_mult_tbl

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: **External Source** Value: mortmult

2.1.10.1.11 Input Variable: survive tbl

Description: survival factors table for extra annuity reserve nPx factors (survival to age 65) used for extra Help:

annuity reserve, based on adjusted table 4a1 as calculated in Clal's annuity reserve spreadsheet.

survive tbl

Associated Code Variables:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To: 1

Choice List:

Value Type: **External Source** Value: Survival_Rates

2.1.10.1.12 Input Variable: select_periods

Description: Mortality select periods

Help:

Associated Code Variables: select periods

Modified On: 1/9/2023 11:57:48 AM (UTC+02:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To: Choice List:

Value Type: External Source Value: Parameters

2.1.10.1.13 Input Variable: omega_age

Description: omega age

Help: Highest age in mortality table. Internal logic variable

calculated in calc_omega_age.

Associated Code Variables: omega_age_omega_age_dec,omega_age_cmi

Modified On: 1/11/2023 11:20:18 AM (UTC+02:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To: Choice List:

Value Type: External Source Value: Parameters

2.1.10.1.14 Input Variable: death rates ann m 1

Description: Male Annuiants death rate table

Help: Death-only rate table
Associated Code Variables: death_rates_ann_m_1

Modified On: 7/26/2021 2:51:58 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: ann_mort_08_M_BE

2.1.10.1.15 Input Variable: sel ret qx im dth 1

Description:

Help: Death-only rate table
Associated Code Variables: sel_ret_qx_im_dth_1

Modified On: 7/23/2024 3:32:55 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To: Choice List:

Value Type: External Source Value: Sel_Ret_Qx

2.1.10.1.16 Input Variable: sel_ret_qx_im_dth_2

Description:

Help: Death-only rate table Associated Code Variables: sel_ret_qx_im_dth_2

Modified On: 7/23/2024 3:37:21 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To: Choice List:

Value Type: External Source Value: Sel_Ret_Qx

2.1.10.1.17 Input Variable: death rates ann f 1

Description: Female Annuiants death rate table

Help: Death-only rate table
Associated Code Variables: death_rates_ann_f_1

Modified On: 7/26/2021 2:52:01 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: ann_mort_08_F_BE

2.1.10.1.18 Input Variable: death rates ann m 2

Description: Male Annuiants death rate table

Help: Death-only rate table
Associated Code Variables: death_rates_ann_m_2

Modified On: 7/26/2021 2:57:43 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source
Value: ann_mort_08_M_BE

2.1.10.1.19 Input Variable: death_rates_ann_f_2

Description: Female Annuiants death rate table

Help: Death-only rate table
Associated Code Variables: death rates ann f 2

Modified On: 7/26/2021 2:57:58 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: ann_mort_08_F_BE

2.1.10.1.20 Input Variable: death_rates_ann_m_b3_2

Description: Male Annuiants death rate table - B3 mortality

Help: Death-only rate table
Associated Code Variables: death rates ann m b3 2

Modified On: 7/26/2021 2:58:08 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source

Value: ann_mort_b3_08_M_BE

2.1.10.1.21 Input Variable: death rates ann f b3 2

Description: Female Annuiants death rate table - B3 mortality

Help: Death-only rate table
Associated Code Variables: death rates ann f b3 2

Modified On: 7/26/2021 2:58:15 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source

Value: ann_mort_b3_08_F_BE

2.1.10.1.22 Input Variable: death_rates_ann_m_res_1

Description: Male Annuiants death rate table

Help: Death-only rate table
Associated Code Variables: death rates ann m res 1

Modified On: 7/26/2021 2:59:04 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source
Value: ann_mort_08_M_res

2.1.10.1.23 Input Variable: death_rates_ann_m_res_2

Description: Male Annuiants death rate table

Help: Death-only rate table

Associated Code Variables: death_rates_ann_m_res_2

Modified On: 7/26/2021 3:01:13 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: ann_mort_08_M_res

2.1.10.1.24 Input Variable: death_rates_ann_m_res_tt

Description: Male Annuiants death rate table

Help: Death-only rate table
Associated Code Variables: death rates ann m res tt

Modified On: 7/26/2021 3:08:57 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: ann_mort_08_M_res

2.1.10.1.25 Input Variable: death_rates_ann_f_res_1

Description: Female Annuiants death rate table

Help: Death-only rate table

Associated Code Variables: death_rates_ann_f_res_1

Modified On: 7/26/2021 2:59:09 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: ann_mort_08_F_res

2.1.10.1.26 Input Variable: death_rates_ann_f_res_2

Description: Female Annuiants death rate table

Help: Death-only rate table
Associated Code Variables: death rates ann f res 2

Modified On: 7/26/2021 3:01:21 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: ann_mort_08_F_res

2.1.10.1.27 Input Variable: death rates ann f res tt

Description: Female Annuiants death rate table

Help: Death-only rate table
Associated Code Variables: death_rates_ann_f_res_tt

Modified On: 7/26/2021 3:09:03 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: ann_mort_08_F_res

2.1.10.1.28 Input Variable: death rates ann m res b3 2

Description: Male Annuiants death rate table - B3 Mortality

Help: Death-only rate table

Associated Code Variables: death_rates_ann_m_res_b3_2
Modified On: 7/26/2021 3:01:36 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source

Value: ann_mort_b3_08_M_res

2.1.10.1.29 Input Variable: death_rates_ann_m_res_b3_tt

Description: Male Annuiants death rate table - B3 Mortality

Help: Death-only rate table

Associated Code Variables: death_rates_ann_m_res_b3_tt

Modified On: 7/26/2021 3:09:16 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source

Value: ann_mort_b3_08_M_res

2.1.10.1.30 Input Variable: death rates ann f res b3 2

Description: Female Annuiants death rate table - B3 mortality

Help: Death-only rate table

Associated Code Variables: death_rates_ann_f_res_b3_2
Modified On: 7/26/2021 3:01:29 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source

Value: ann_mort_b3_08_F_res

2.1.10.1.31 Input Variable: death rates ann f res b3 tt

Description: Female Annuiants death rate table - B3 mortality

Help: Death-only rate table

Associated Code Variables: death_rates_ann_f_res_b3_tt

Modified On: 7/26/2021 3:09:21 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source

Value: ann_mort_b3_08_F_res

2.1.10.1.32 Input Variable: death rates res tbl

Description:

Help:

Associated Code Variables: death rates res tbl

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To: Choice List:

Value Type: External Source

Value: death_rates_res_comp

2.1.11 Input Page: Premium

2.1.11.1 Assumption Set: Base

Description: Help:

Top Model Object:

Modified On: 2/11/2024 2:47:13 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Assumption Set Links: Unlinked

2.1.11.1.1 Input Variable: Various Parameters

Description:

Help:

Associated Code Variables: prem_newtag_prop,netprem_max,pol_fee_disc_perc

,prem_risk_max,tagmulim_perc,health_occ_perc_mi

n

Modified On: 3/13/2023 3:14:06 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 100000

Choice List:

Value Type: External Source Value: Parameters

2.1.11.1.2 Input Variable: prem_rates_series_end_im

Description: Prem Rates Im

Help:

Associated Code Variables: prem rates series end im

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: Valid Range To: Choice List:

Value Type: External Source Value: prem_rates

2.1.11.1.3 Input Variable: prem_rates_series

Description: Premium rate table

Help:

Associated Code Variables: prem rates series

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: 0
Valid Range To: 10000

Choice List:

Value Type: External Source Value: prem_rates

2.1.11.1.4 Input Variable: prem_key_temp_rates

Description: Premium rate table

Help:

Associated Code Variables: prem_rates_temp_series_end Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: 0
Valid Range To: 10000

Choice List:

Value Type: External Source Value: prem_rates

2.1.11.1.5 Input Variable: prem rates charge tt

Description: Premium rate table

Help:

Associated Code Variables: prem_rates_charge_tt

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: 0
Valid Range To: 10000

Choice List:

Value Type: External Source

Value: prem_rates

2.1.11.1.6 Input Variable: prem if rates

Description: Premium rate table

Help:

Associated Code Variables: prem_if_rates

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: 0
Valid Range To: 10000

Choice List:

Value Type: External Source Value: prem_rates

2.1.11.1.7 Input Variable: prem_rates_others

Description: Premium rate table

Help:

Associated Code Variables: base

Modified On: 5/3/2022 4:29:44 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: 0
Valid Range To: 10000

Choice List:

Value Type: External Source Value: prem_rates

2.1.11.1.8 Input Variable: prem rates si

Description: Premium rate table

Help:

Associated Code Variables: prem_rates_si

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: 0
Valid Range To: 10000

Choice List:

Value Type: External Source Value: prem_rates

2.1.11.1.9 Input Variable: sal tbl

Description: Tables for salary increases

Help:

Associated Code Variables: sal_tbl

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source

Value: sal inc

2.1.11.1.10 Input Variable: sal_rider_tbl

Description: Tables for salary increases

Help:

Associated Code Variables: sal_rider_tbl

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source

Value: sal_inc

2.1.11.1.11 Input Variable: prem rates extra prm

Description:

Help:

Associated Code Variables: prem_rates_extra_prm

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To: Choice List:

Value Type: External Source Value: prem_rates_extra

2.1.11.1.12 Input Variable: prem rates risk 1

Description:

Help:

Associated Code Variables: prem_rates_risk_1

Modified On: 5/2/2022 11:43:31 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To: Choice List:

Value Type: External Source
Value: prem_rates_risk_comp

2.1.11.1.13 Input Variable: prem_rates_risk_2

Description:

Help:

Associated Code Variables: prem rates risk 2

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To: Choice List:

Value Type: External Source

Value: prem_rates_risk_comp

2.1.11.1.14 Input Variable: prem rates risk rider

Description:

Help:

Associated Code Variables: prem_rates_risk_rider

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To: Choice List:

Value Type: External Source
Value: prem_rates_risk_rider

2.1.11.1.15 Input Variable: prem code map tbl

Description: health prem code map tbl

Help:

Associated Code Variables: prem_code_map_tbl

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: prem_code_map

2.1.11.1.16 Input Variable: prate level tbl

Description: Prate Level Tbl

Help: level premium rate rate table.

looked up by age and benefit-term (NOT premium-

term)

Associated Code Variables: prate_level_tbl

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To: Choice List:

Value Type: External Source

Value: prem rates level comp

2.1.11.1.17 Input Variable: zillmer_pr_tbl

Description: Zillmer rates table (% of premium)

Help: Table of zillmer premium rates by policy type and

dac purpose (book or taxe). Set for the 10 first policy

years (= 0 after).

Associated Code Variables: zillmer_pr_tbl

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: zillmer_prm

2.1.11.1.18 Input Variable: prem disc shimur

Description:

Help:

Associated Code Variables: prem_disc_shimur_im

Modified On: 2/11/2024 3:24:57 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: External Source Value: Shimur_disc

2.1.12 Input Page: Product Details

2.1.12.1 Assumption Set: Base

Description: Help:

Too Mand

Top Model Object:

Modified On: 2/12/2024 12:20:57 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Assumption Set Links: Unlinked

2.1.12.1.1 Input Variable: prod_assumpt_tbl

Description: Product code specific assumptions

Help:

Associated Code Variables: comm_set,clms_mult_set,clwback_set,exp_mult_set,

alloc_rate_set,surr_chg_set,lapse_set_riders,decrem _mult_set,exp_set_cvr,prodcode_par_nonpar,sal_inc

set

Modified On: 11/12/2024 4:34:45 PM (UTC+02:00)

Modified By: CLAL-INS\arikt

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: prod_ass

2.1.12.1.2 Input Variable: savings pol prod code

Description: Product code specific assumptions

Help:

Associated Code Variables: savings_pol_prod_code

Modified On: 3/23/2023 11:07:17 AM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: prod_ass

2.1.12.1.3 Input Variable: prod_assumpt_base_tbl

Description: Product code specific assumptions

Help:

Associated Code Variables: lapse_set,exp_set_pol,savings_pol,mort_mult_set

Modified On: 11/12/2024 4:35:11 PM (UTC+02:00)

Modified By: CLAL-INS\arikt

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: prod ass

2.1.12.1.4 Input Variable: prod assumpt key tbl

Description: Product code specific assumptions

Help: Product code specific assumptions. Used only if

lookup_by_prodcode = "Y".

Associated Code Variables: prod_assumpt_key_tbl

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: prod_ass

2.1.12.1.5 Input Variable: prod_assumpt_rider_exp_tbl

Description: Product code specific assumptions

Help: Product code specific assumptions. Used only if

lookup_by_prodcode = "Y".

Associated Code Variables: prod_assumpt_rider_exp_tbl

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source

Value: prod_ass

2.1.12.1.6 Input Variable: sal_inc_set_rider

Description: Product code specific assumptions

Help:

Associated Code Variables: sal_inc_set_rider

Modified On: 12/29/2022 5:38:30 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: prod_ass

2.1.12.1.7 Input Variable: prod_assumpt_rider_lapse_tbl

Description: Product code specific assumptions

Help: Product code specific assumptions. Used only if

lookup_by_prodcode = "Y".

Associated Code Variables: prod_assumpt_rider_lapse_tbl
Modified On: 6/15/2022 9:39:18 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source

Value: prod_ass

2.1.12.1.8 Input Variable: prod assumpt rider clms tbl

Description: Product code specific assumptions

Help:

Associated Code Variables: prod_assumpt_rider_clms_tbl

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: prod ass

2.1.12.1.9 Input Variable: prod spec term

Description: prod spec term

Help:

Associated Code Variables: res_basis,prem_lookup,prem_lookup_freq,adjust_pr

em and claims, prem init different, dd prop cont

Modified On: 6/2/2022 2:15:27 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: prod_spec_term

2.1.12.1.10 Input Variable: prod spec trad

Description: prod spec trad

Help:

Associated Code Variables: prodcdold,matan perc,prem inc,prem age,sum inc

Modified On: 5/16/2023 10:08:39 AM (UTC+03:00)

Modified By: CLAL-INS\Arikt

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: prod_spec_trad

2.1.12.1.11 Input Variable: prem_lookup_trad

Description: prem_lookup_trad

Help:

Associated Code Variables: prem lookup trad

Modified On: 8/16/2021 11:05:58 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: prod_spec_trad

2.1.12.1.12 Input Variable: prem lookup freg trad

Description: prem_lookup_freq_trad

Help:

Associated Code Variables: prem lookup freq trad

Modified On: 8/29/2021 12:10:42 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: prod_spec_trad

2.1.12.1.13 Input Variable: pup_sv_charge_rebate

Description: pup_sv_charge_rebate

Help:

Associated Code Variables: pup_sv_charge_rebate

Modified On: 8/29/2021 11:39:59 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: prod_spec_unit

2.1.12.1.14 Input Variable: prod specs max perc

Description: prod_specs_max_perc

Help:

Associated Code Variables: prod_specs_max

Modified On: 8/29/2021 11:50:17 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: prod_spec_unit

2.1.12.1.15 Input Variable: prod_spec_risk_code

Description: prod_spec_risk_code

Help:

Associated Code Variables: prod_spec_risk_code

Modified On: 8/29/2021 12:25:42 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: prod_spec_unit

2.1.12.1.16 Input Variable: prod_specs_rider

Description: prod_specs_rider

Help:

Associated Code Variables: prod_specs_rider

Modified On: 8/29/2021 12:40:17 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: prod_spec_unit

2.1.12.1.17 Input Variable: rider tarif tbl

Description: Table to map Profil Riders Tarif code to product code

Help:

Associated Code Variables: rider_tarif_tbl

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: profil_rider_tarif_map

2.1.12.1.18 Input Variable: tarif_spec

Description: set tarif spec. var. with string value

Help:

Associated Code Variables: pitzui_shichrur,prem_key_start,premkey_endage,pre

mkey_sex,premkey_smoker,premkey_insured,prem_series_year,claims_cost_key_start,claimskey_endag e,claimskey_sex,claims_series_year,claims_factor,w aiting_period_modeled,incidencerate_key,prem_fact or,reins key start,premkey occ,lapse tarif set,blue

_white

Modified On: 7/15/2024 3:53:50 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: tarif_spec

2.1.12.1.19 Input Variable: tarif spec lookup freq

Description: set tarif spec. var. with string value

Help:

Associated Code Variables: tarif_spec_lookup_freq

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: tarif_spec

2.1.12.1.20 Input Variable: alloc_rate_stri

Description: Allocation rate table

Help:

Associated Code Variables: alloc_rate_stri

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source

Value: alloc

2.1.12.1.21 Input Variable: suminisba_tbl

Description:

Help:

Associated Code Variables: suminisba_tbl

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To: Choice List:

Value Type: External Source Value: suminisba

2.1.12.1.22 Input Variable: claims factor occ

Description:

Help:

Associated Code Variables: claims factor occ

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From:

Valid Range To:

Choice List: 0

Value Type: External Source Value: tarif_spec_occ

2.1.12.1.23 Input Variable: bonus tbl

Description:

Help: Table with persistency bonus rates by policy month.

This is always used (even if read from tables = "N")

- looked up by surr_charge_set

Associated Code Variables: bonus_tbl

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To: Choice List:

Value Type: External Source

Value: bonus5

2.1.12.1.24 Input Variable: gorem_mult

Description:

Help:

Associated Code Variables: gorem_mult

Modified On: 12/10/2023 11:57:18 AM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To: Choice List:

Value Type: External Source Value: prod_ass

2.1.13 Input Page: Reinsurance

2.1.13.1 Assumption Set: Base

Description: Help:

Top Model Object:

Modified On: 7/15/2024 1:13:24 PM (UTC+03:00)

Modified By: CLAL-INS\arikt Assumption Set Links: Unlinked

2.1.13.1.1 Input Variable: prem_rates_re

Description: reinsurance premium rates for life

Help:

Associated Code Variables: prem_rates_re

Modified On: 7/22/2021 9:48:29 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source

Value: premium_rates_rein_life

2.1.13.1.2 Input Variable: reinsur_w

Description: table reinsurance treaties assumptions

Help:

Associated Code Variables: exp re nom,prof comm,interest,retention,madad,typ

e,prem_extra,quota_share_ppn,prem_re_mult,comm

by_cal

Modified On: 1/5/2025 3:04:01 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: life_treaty_details

2.1.13.1.3 Input Variable: rein_series_end_key_temp

Description: table reinsurance treaties assumptions

Help:

Associated Code Variables: rein_series_end_key_temp

Modified On: 10/25/2021 3:08:53 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: life_treaty_details

2.1.13.1.4 Input Variable: reinsur kod tavla

Description: table reinsurance treaties assumptions

Help:

Associated Code Variables: reinsur_kod_tavla

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: life_treaty_details

2.1.13.1.5 Input Variable: reinsur_comm

Description: table reinsurance treaties assumptions

Help:

Associated Code Variables: reinsur_comm

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: life_treaty_details

2.1.13.1.6 Input Variable: reinsur_simple_perc

Description:

Help:

Associated Code Variables: reinsur_simple_perc

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: External Source Value: LifeReins

2.1.13.1.7 Input Variable: reinsur simple cost

Description:

Help:

Associated Code Variables: reinsure simple cost

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To: Choice List:

Value Type: External Source Value: LifeReins

2.1.13.1.8 Input Variable: reinsur_simple_rider_cost

Description:

Help:

Associated Code Variables: reinsur_simple_rider_cost

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To: Choice List:

Value Type: External Source Value: LifeReins

2.1.14 Input Page: Reserve

2.1.14.1 Assumption Set: Base

Description: Help:

Top Model Object:

Modified On: 11/14/2024 4:52:04 PM (UTC+02:00)

Modified By: CLAL-INS\arikt Assumption Set Links: Unlinked

2.1.14.1.1 Input Variable: err_sar_perc

Description: ERR as % of sum at risk Help: extra-ordinary reserve

Associated Code Variables: err sar perc

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0.3

Choice List:

Value Type: External Source Value: Parameters

2.1.14.1.2 Input Variable: err_spread_period

Description: years to build up err

Help: number of years over which err is built up

Associated Code Variables: err spread period

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 30

Choice List:

Value Type: External Source Value: Parameters

2.1.14.1.3 Input Variable: zeroise_res

Description: Zeroise negative reserves (Y/N)?

Help: Y = Individual negative reserves are set to zero

Associated Code Variables: zeroise res

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From:

Valid Range To:

Choice List:

0

Y,N

Value Type: External Source Value: Parameters

2.1.14.1.4 Input Variable: reserve_factors_tbl

Description: reserve factors table

Help:

Associated Code Variables: reserve_factors_tbl

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 0

Choice List:

Value Type: External Source Value: Reserve_Factors

2.1.14.1.5 Input Variable: zillmer adj factor

Description: Adjustment factor for Zillmer (to scale up to actuals)

Help: The percentage applied to the DAC tax value taken

from the data file to adjust it according to the actual

DAC held.

Associated Code Variables: zillmer_adj_factor

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: 0
Valid Range To: 1000

Choice List:

Value Type: External Source Value: Economic

2.1.14.1.6 Input Variable: AnnuitySets

Description: Reserves Annuities Sets

Help: variable linked with the kitzba reserve field from the

inforce file

Associated Code Variables: res_anndef_lapse,res_anndef_lapse_par Modified On: 11/9/2022 9:40:50 AM (UTC+02:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: 0
Valid Range To: 100

Choice List:

Value Type: External Source

Value: Annuity

2.1.14.1.7 Input Variable: Res Adj Factor

Description: Reserves adjustment factor

Help:

Associated Code Variables: res adj factor

Modified On: 8/5/2024 3:51:52 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To: Choice List:

Value Type: External Source Value: Reserve_Manual

2.1.14.1.8 Input Variable: Comm_reserves_AddVAT

Description: Add VAT to commres (Y/N)?

Help:

Associated Code Variables: commres addvat

Modified On: 11/14/2024 4:53:42 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: 0
Valid Range To: 0
Choice List: Y,N

Value Type: External Source Value: Parameters

2.1.15 Input Page: Setup

2.1.15.1 Assumption Set: Solv Base

Description:

Help:

Top Model Object:

Modified On: 12/3/2024 5:14:30 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Assumption Set Links: Unlinked

2.1.15.1.1 Input Variable: RunControl_Char

Description:

Help: Internal logic variable set in startup. Y = In negative

periods gross up survivorship.

Associated Code Variables: gross up historic,reinsurance,comm extra agent u

se,projection_type,projection_type_int,decrements_a pply,mort_sel_status,chetz_be_ind,interest_re_calculate,reserve_re_increase_calculate,freeinv_res_ann_t

arif

Modified On: 11/13/2024 10:47:00 PM (UTC+02:00)

Modified By: CLAL-INS\arikt

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: Valid Range To: Choice List:

Value Type: External Source Value: Run_Control

2.1.15.1.2 Input Variable: RunControl_Num

Description:

Help: Valuation occurs at end of valn_month in valn_year

Associated Code Variables: valn_month,valn_year,madad_current,rollup_period, qx_sd_random,qx_sd_comp,qx_sd_random_res,qx_

lx_su_random,qx_su_comp,qx_su_random_res,qx

sd_comp_res,chetz_be_ind_yrs

Modified On: 6/21/2023 1:43:54 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To: Choice List:

Value Type: External Source Value: Run_Control

2.1.15.1.3 Input Variable: Param Switch

Description:

Help: policy type switches - original or current

Associated Code Variables: pol_type_lapse_switch,pol_type_sal_inc_switch,pol_t

ype_expenses_switch,pol_type_phi_incidence_switch,pol_type_annuity_tu_switch,pol_type_comm_hekef_switch,pol_type_lapse_rider_switch,pol_type_recovery_rates_switch,use_tat_shnatiut_assum,zeroise_a

nn def

Modified On: 6/17/2025 11:11:00 AM (UTC+03:00)

Modified By: CLAL-INS\arikt

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: Valid Range To: Choice List:

Value Type: External Source Value: Parameters

2.1.15.1.4 Input Variable: RA factor

Description: Risk Adjustment factor

Help:

Associated Code Variables: ra_fact_mort_gross,ra_fact_tu_gross,ra_fact_lapse_

gross,ra_fact_exp_gross,ra_fact_long_gross,ra_fact _dis_incid_gross,ra_fact_dis_termi_gross,ra_fact_ex p_reins,ra_fact_lapse_reins,ra_fact_mort_reins,ra_fa ct_long_reins,ra_fact_tu_reins,ra_fact_dis_incid_rein

s,ra_fact_dis_termi_reins

Modified On: 3/17/2024 9:46:07 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: -10000
Valid Range To: 10000

Choice List:

Value Type: External Source Value: RA_Factor

2.1.15.1.5 Input Variable: Serv Units Dur

Description:

Help:

Associated Code Variables: serv_units_dur

Modified On: 6/11/2023 10:39:08 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To: Choice List:

Value Type: External Source Value: Serv_Units_Dur

2.1.15.1.6 Input Variable: dump vars

Description: Output all variables to logfile?

Help: If Y, the program will output all variables to the log

stream after the startup has been executed in each

model. NB Should only be set to Y for testing purposes, as will create HUGE amounts of output in

the log file when run with a large policy file.

Associated Code Variables: dump_vars

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From:

Valid Range To:

Choice List:

V,N

Value Type: External Source Value: Run_Control

2.1.15.1.7 Input Variable: dump_vars (2)

Description: Output all variables to logfile?

Help: If Y, the program will output all variables to the log

stream after the startup has been executed in each model. NB Should only be set to Y for testing purposes, as will create HUGE amounts of output in

the log file when run with a large policy file.

Associated Code Variables: dump_vars

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From:

Valid Range To:

Choice List:

0

Y,N

Value Type: External Source Value: Run_Control

2.1.16 Data Page: Ann_Data

2.1.16.1 Assumption Set: Ann Data

Description: Help:

Top Model Object:

Modified On: 7/22/2021 5:22:38 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Data Page Model Object: annuity
Assumption Set Links: Unlinked

External Source: retirement_ages

Model Point Extraction: None

Model Points:

Apply Model Point Weight No

Weighting File Weighted Data Field 2.1.16.1.1 Input Variable: takeup_age

Description: Take-up age for annuities

Help:

Associated Code Variables: takeup age

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: takeup age

2.1.17 Data Page: life_Data

2.1.17.1 Assumption Set: All Solvency

Description: Help:

Top Model Object:

Modified On: 2/13/2025 3:59:10 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Data Page Model Object: life
Assumption Set Links: Unlinked

External Source: Policy data - Solvency Model Point Extraction: Range or specified

Model Points: 1,2
Apply Model Point Weight No

Weighting File Weighted Data Field

2.1.17.1.1 Input Variable: prem_disc_dcr3_m

Description: Premium descreasing discount3 months

Help: Month from policy start when Premium discount

period ends.

Associated Code Variables: prem_disc_dcr3_m

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: lod_re_3_p

2.1.17.1.2 Input Variable: prem disc dcr4 m

Description: Premium descreasing discount4 months

Help: Month from policy start when Premium discount

period ends.

Associated Code Variables: prem_disc_dcr4_m

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: lod_re_4_p

2.1.17.1.3 Input Variable: prem_disc_step

Description: Premium discount decrease type

Help: 0 = no loading

1 = gorem on yesodi

3 = temp discount on all covers in policy4 = permanent discount on all covers in policy

5 = temp discount on specific cover6 = permanent discount on specific cover

other = gorem

Associated Code Variables: prem_disc_step

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: lod_red_ty

2.1.17.1.4 Input Variable: prem_disc_dcr1_r

Description: Premium descreasing discount1 rate

Help: Premium discount as a percentage of premium .

Applied during a defined period (see

Prem_disc_month).

Associated Code Variables: prem_disc_dcr1_r

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From:

Valid Range To:

Choice List:

Value Type: Data Value: lod_re_1_a

2.1.17.1.5 Input Variable: prem disc dcr1 m

Description: Premium descreasing discount1 months

Help: Month from policy start when Premium discount

period ends.

Associated Code Variables: prem_disc_dcr1_m

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: lod_re_1_p

2.1.17.1.6 Input Variable: prem_disc_dcr4_r

Description: Premium descreasing discount4 rate

Help: Premium discount as a percentage of premium.

Applied during a defined period (see

Prem_disc_month).

Associated Code Variables: prem_disc_dcr4_r

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: lod_re_4_a

2.1.17.1.7 Input Variable: prem disc dcr3 r

Description: Premium descreasing discount3 rate

Help: Premium discount as a percentage of premium.

Applied during a defined period (see

Prem_disc_month).

Associated Code Variables: prem_disc_dcr3_r

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: lod_re_3_a

2.1.17.1.8 Input Variable: prem_disc_dcr2_r

Description: Premium descreasing discount2 rate

Help: Premium discount as a percentage of premium.

Applied during a defined period (see

Prem_disc_month).

Associated Code Variables: prem_disc_dcr2_r

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: lod_re_2_a

2.1.17.1.9 Input Variable: prem_disc_dcr5_m

Description: Premium descreasing discount5 months

Help: Month from policy start when Premium discount

period ends.

Associated Code Variables: prem_disc_dcr5_m

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: lod_re_5_p

2.1.17.1.10 Input Variable: prem disc dcr5 r

Description: Premium descreasing discount5 rate

Help: Premium discount as a percentage of premium.

Applied during a defined period (see

Prem_disc_month).

Associated Code Variables: prem_disc_dcr5_r

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: lod_re_5_a

2.1.17.1.11 Input Variable: prem disc dcr2 m

Description: Premium descreasing discount2 months

Help: Month from policy start when Premium discount

period ends.

Associated Code Variables: prem_disc_dcr2_m

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: lod_re_2_p

2.1.17.1.12 Input Variable: prem disc type 2

Description: Premium discount type

Help: 0 = no loading

1 = gorem on yesodi

3 = temp discount on all covers in policy4 = permanent discount on all covers in policy

5 = temp discount on specific cover6 = permanent discount on specific cover

other = gorem

Associated Code Variables: prem_disc_type_2

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: lod_type_2

2.1.17.1.13 Input Variable: prem disc type

Description: Premium discount type

Help: 0 = no loading

1 = gorem on yesodi

3 = temp discount on all covers in policy4 = permanent discount on all covers in policy

5 = temp discount on specific cover6 = permanent discount on specific cover

other = gorem

Associated Code Variables: prem_disc_type

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: lod_type_1

2.1.17.1.14 Input Variable: prem_disc_month_2

Description: Premium discount period (last month)

Help:

Associated Code Variables: prem_disc_month_2_input

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: lod_pe_r_2

2.1.17.1.15 Input Variable: prem disc month

Description: Premium discount period (last month)

Help:

Associated Code Variables: prem_disc_month_input

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: lod_pe_r_1

2.1.17.1.16 Input Variable: prem disc perc 2

Description: Premium discount as a percentage

Help:

Associated Code Variables: prem_disc_perc_2_input

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: lod_amt_2

2.1.17.1.17 Input Variable: prem disc perc

Description: Premium discount as a percentage

Help:

Associated Code Variables: prem_disc_perc_input

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: lod_amt_1

2.1.17.1.18 Input Variable: amala nihul 6

Description: commission field from data file

Help:

Associated Code Variables: amala nihul 6

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: amla_ni_6

2.1.17.1.19 Input Variable: amala pikuach 1

Description: superviser commission field from data file

Help:

Associated Code Variables: amala_pikuach_1

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: amla_pk_1

2.1.17.1.20 Input Variable: amala_pikuach_0

Description: superviser commission field from data file

Help:

Associated Code Variables: amala_pikuach_0

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: amla_pk_0

2.1.17.1.21 Input Variable: amala_nihul_0

Description: commission field from data file

Help:

Associated Code Variables: amala nihul 0

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: amla_ni_0

2.1.17.1.22 Input Variable: amala_nihul_1

Description: commission field from data file

Help:

Associated Code Variables: amala_nihul_1

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: amla_ni_1

2.1.17.1.23 Input Variable: amala nihul 2

Description: commission field from data file

Help:

Associated Code Variables: amala nihul 2

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: amla_ni_2

2.1.17.1.24 Input Variable: amala_nihul_3

Description: commission field from data file

Help:

Associated Code Variables: amala_nihul_3

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: amla_ni_3

2.1.17.1.25 Input Variable: amala nihul 4

Description: commission field from data file

Help:

Associated Code Variables: amala_nihul_4

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: amla_ni_4

2.1.17.1.26 Input Variable: amala_nihul_5

Description: commission field from data file

Help:

Associated Code Variables: amala nihul 5

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: amla_ni_5

2.1.17.1.27 Input Variable: amala_nihul_7

Description: commission field from data file

Help:

Associated Code Variables: amala_nihul_7

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: amla_ni_7

2.1.17.1.28 Input Variable: amala nihul 8

Description: commission field from data file

Help:

Associated Code Variables: amala nihul 8

Modified On: 4/9/2024 5:41:00 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: AMLA_NI_8

2.1.17.1.29 Input Variable: amala_nihul_9

Description: commission field from data file

Help:

Associated Code Variables: amala_nihul_9

Modified On: 4/9/2024 5:41:13 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data

Value: AMLA_NI_9

2.1.17.1.30 Input Variable: amala_nihul_10

Description: commission field from data file

Help:

Associated Code Variables: amala_nihul_10

Modified On: 4/9/2024 5:41:19 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data

Value: AMLA_NI_10

2.1.17.1.31 Input Variable: amala_nihul_11

Description: commission field from data file

Help:

Associated Code Variables: amala_nihul_11

Modified On: 4/9/2024 5:41:25 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data

Value: AMLA_NI_11

2.1.17.1.32 Input Variable: amala_nihul_12

Description: commission field from data file

Help:

Associated Code Variables: amala nihul 12

Modified On: 4/9/2024 5:41:39 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data

Value: AMLA_NI_12

2.1.17.1.33 Input Variable: amala_nihul_13

Description: commission field from data file

Help:

Associated Code Variables: amala_nihul_13

Modified On: 4/9/2024 5:41:46 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data

Value: AMLA_NI_13

2.1.17.1.34 Input Variable: amala_nihul_14

Description: commission field from data file

Help:

Associated Code Variables: amala nihul 14

Modified On: 4/9/2024 5:41:52 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data

Value: AMLA_NI_14

2.1.17.1.35 Input Variable: amala_nihul_15

Description: commission field from data file

Help:

Associated Code Variables: amala nihul 15

Modified On: 4/9/2024 5:41:58 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data

Value: AMLA_NI_15

2.1.17.1.36 Input Variable: amala_nihul_16

Description: commission field from data file

Help:

Associated Code Variables: amala nihul 16

Modified On: 4/9/2024 5:42:05 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data

Value: AMLA_NI_16

2.1.17.1.37 Input Variable: amala 15

Description: commission field from data file

Help:

Associated Code Variables: amala_15

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data

Value: amla_sh_15

2.1.17.1.38 Input Variable: amala 9

Description: commission field from data file

Help:

Associated Code Variables: amala_9

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: amla_sh_9

Description: commission field from data file

Help:

Associated Code Variables: amala_8

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: amla_sh_8

2.1.17.1.40 Input Variable: amala 7

Description: commission field from data file

Help:

Associated Code Variables: amala 7

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: amla_sh_7

2.1.17.1.41 Input Variable: amala_6

Description: commission field from data file

Help:

Associated Code Variables: amala_6

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: amla_sh_6

2.1.17.1.42 Input Variable: amala_5

Description: commission field from data file

Help:

Associated Code Variables: amala_5

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: amla_sh_5

2.1.17.1.43 Input Variable: amala 4

Description: commission field from data file

Help:

Associated Code Variables: amala 4

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: amla sh 4

2.1.17.1.44 Input Variable: amala 3

Description: commission field from data file

Help:

Associated Code Variables: amala_3

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: amla_sh_3

2.1.17.1.45 Input Variable: amala_2

Description: commission field from data file

Help:

Associated Code Variables: amala_2

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: amla_sh_2

Description: commission field from data file

Help:

Associated Code Variables: amala_16

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data

Value: amla_sh_16

2.1.17.1.47 Input Variable: amala 1

Description: commission field from data file

Help:

Associated Code Variables: amala_1

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: amla_sh_1

2.1.17.1.48 Input Variable: amala_10

Description: commission field from data file

Help:

Associated Code Variables: amala_10

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data

Value: amla_sh_10

Description: commission field from data file

Help:

Associated Code Variables: amala_11

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: amla sh 11

2.1.17.1.50 Input Variable: amala_12

Description: commission field from data file

Help:

Associated Code Variables: amala 12

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data

Value: amla_sh_12

2.1.17.1.51 Input Variable: amala 13

Description: commission field from data file

Help:

Associated Code Variables: amala_13

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data

Value: amla_sh_13

2.1.17.1.52 Input Variable: comm_perc_res_b

Description: Commissions as % of reserves (Pure savin

Help:

Associated Code Variables: comm_perc_res_b_input

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: a_zvra_sav

2.1.17.1.53 Input Variable: comm_perc_res_a

Description: Commissions as % of reserves (basic)

Help:

Associated Code Variables: comm_perc_res_a_input

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: amla_zvira

2.1.17.1.54 Input Variable: comm ren perc sav

Description: Renewal commission (%) for pure saving

Help: Renewal commission expressed as a % of pure

saving premium income. Used when benef class is

adif

Associated Code Variables: comm_ren_perc_sav

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: d_gvia_sav

2.1.17.1.55 Input Variable: comm_ren_perc_prem

Description: Renewal commission (%)

Help: Renewal commission expressed as a % of premium

income.

Associated Code Variables: comm_ren_perc_prem

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: d_gvia_prc

2.1.17.1.56 Input Variable: comm prof

Description: Renewal commission (%)

Help: Renewal commission expressed as a % of premium

income.

Associated Code Variables: comm prof

Modified On: 1/11/2023 9:27:26 AM (UTC+02:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: comm_prof

2.1.17.1.57 Input Variable: amala 14

Description: commission field from data file

Help:

Associated Code Variables: amala_14

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data

Value: amla_sh_14

2.1.17.1.58 Input Variable: comm_renewal_year

Description: First year from when renewal commission is paid

Help:

Associated Code Variables: comm_renewal_year_input

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data

Value: d_gvia_msh

Description: commission field from data file

Help:

Associated Code Variables: amala_0

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From:

Valid Range To:

Choice List:

Value Type: Data Value: amla_sh_0

2.1.17.1.60 Input Variable: prod code base

Description: Product code of the base (Yessodi) cover

Help: read in from inforce file

Associated Code Variables: prod code base

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: Valid Range To:

Choice List:

Value Type: Data

Value: prodcd_yes

2.1.17.1.61 Input Variable: tarif

Description: tarif

Help:

Associated Code Variables: tarif

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: tarif

2.1.17.1.62 Input Variable: sub model

Description: sub model to run

Help:

Associated Code Variables: submodel

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: submodel

2.1.17.1.63 Input Variable: risk code

Description: product code of risk rider with Meitav (Managers)

Help: This is the product code of the risk rider (Sapir) that

shares the total premium with the policy (Meitav

Managers) being run.

Associated Code Variables: risk_code

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: risk_code

2.1.17.1.64 Input Variable: prog name

Description: prog_name field from data file

Help: Used for classifying reserves between health and life

Associated Code Variables: prog_name

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: Valid Range To:

Choice List:

Value Type: Data

Value: prog_name

2.1.17.1.65 Input Variable: prod code

Description: Product code

Help: read in from inforce file

Associated Code Variables: prod_code

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: prod_code

2.1.17.1.66 Input Variable: benefit_term

Description: Policy benefit term (months)

Help:

Associated Code Variables: benefit_term_input

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: term_ben

2.1.17.1.67 Input Variable: ben_class

Description: benefit class

Help:

Associated Code Variables: ben_class_input

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: benclass

2.1.17.1.68 Input Variable: prod group yessodi portfolio

Description: benefit class

Help:

Associated Code Variables: prod_group_yessodi_portfolio
Modified On: 6/8/2023 2:17:56 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: Valid Range To:

Choice List:

Value Type: Data

Value: prod_group_yessodi_portfolio

2.1.17.1.69 Input Variable: channel

Description: channel

Help:

Associated Code Variables: channel

Modified On: 1/9/2022 12:31:40 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: channel

2.1.17.1.70 Input Variable: rein_set

Description: Reinsurance assumptions

Help:

Associated Code Variables: rein_set_input

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: sug_sikun

2.1.17.1.71 Input Variable: retention_perc

Description: Retention Ratio

Help: Proportion reinsured for surplus reinsurance:

calculated in startup

Associated Code Variables: retention_perc

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: retention

2.1.17.1.72 Input Variable: mgtfee format

Description: Management fee format number

Help:

Associated Code Variables: mgtfee format

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: format_dn

2.1.17.1.73 Input Variable: mgt_fee_fixed

Description: Fixed Management fee %

Help:

Associated Code Variables: mgt_fee_fixed_input

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: d_nihul_h

2.1.17.1.74 Input Variable: mgt fee variable

Description: variable management fee proportion (%)

Help:

Associated Code Variables: mgt_fee_variable_input

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: d_nihul_z

2.1.17.1.75 Input Variable: recordno

Description: record number

Help: index row num
Associated Code Variables: index_row_num

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: recordno

2.1.17.1.76 Input Variable: ind nb

Description:

Help:

NB indicator

1 = NB

F = Female

Associated Code Variables: ind_nb

Modified On: 4/11/2024 3:34:33 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: IND_NB

2.1.17.1.77 Input Variable: ind ifrs

Description: IFRS indicator Help: 1 = NB

F = Female

Associated Code Variables: ind_ifrs

Modified On: 6/25/2024 2:07:55 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: IND_IFRS

2.1.17.1.78 Input Variable: agent no

Description: agent number and company letter (used as unique

index)

Help: Agent number and first letter of company (a/c) to get

unique agent index

Associated Code Variables: agent_no

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: aggent

2.1.17.1.79 Input Variable: insured_id

Description: ID no for main insured Help: ID no for main insured

Associated Code Variables: insured_id

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: id

2.1.17.1.80 Input Variable: movement status

Description: Movement Status (IF, NB, PU, NC...)

Help: Code is used to identify special covers/policies. Not

used in the model but passed to the output file for

summing the results. 1= LTC NB05 old tarif

2= PHI mifali NB05 alone - added to old policy 3= PHI mifali NB05 alone - other new policy 4= PHI mifali NB05 alone - w/o other new policy

Associated Code Variables: movement_status

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: mvt_stat

2.1.17.1.81 Input Variable: movement flag

Description: Type of Movement (death, surrender, no change...)
Help: Code is used to identify special covers/policies. No

Code is used to identify special covers/policies. Not used in the model but passed to the output file for

summing the results. 1= LTC NB05 old tarif

2= PHI mifali NB05 alone - added to old policy 3= PHI mifali NB05 alone - other new policy 4= PHI mifali NB05 alone - w/o other new policy

Associated Code Variables: movement_flag

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: mvt_flag

2.1.17.1.82 Input Variable: movement_month

Description: Calender month of movement

Help: Code is used to identify special covers/policies. Not

used in the model but passed to the output file for

summing the results. 1= LTC NB05 old tarif

2= PHI mifali NB05 alone - added to old policy 3= PHI mifali NB05 alone - other new policy 4= PHI mifali NB05 alone - w/o other new policy

Associated Code Variables: movement_month

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: mvt month

2.1.17.1.83 Input Variable: occ perc

Description: Extra loadings (occupation only) on premium/qx
Help: Extra premium loading (percent of basic premium)

for the policy for occupation. Will only be added to the premium if variable health_occ_in_prem is set to N. Regardless this should also be used for the claim

assumption.

Associated Code Variables: occ perc

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: occ_add_p

2.1.17.1.84 Input Variable: health perc

Description: Extra loadings (health only) on premium/qx

Help: Extra premium loading (percent of basic premium)

for the policy for health conditions. Will only be added to the premium if variable health_occ_in_prem is set to N. Regardless this should also be used for

the claim assumption.

Associated Code Variables: health perc

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: morta_ad_p

2.1.17.1.85 Input Variable: pol index

Description: Policy index (Pol No, Company, Tarif, Tafkid)
Help: Policy Index to uniquely identify cover. Made from

Policy number, Company code, Tarif and Tafkid

Associated Code Variables: pol_index

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: pindex

2.1.17.1.86 Input Variable: maasik no

Description: Maasik number for managers policies
Help: Agency Number (Osek merushe number)

Associated Code Variables: maasik_no

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: maasik

2.1.17.1.87 Input Variable: flag_code

Description: flag_code for data record

Help: Code is used to identify special covers/policies. Not

used in the model but passed to the output file for

summing the results. 1= LTC NB05 old tarif

2= PHI mifali NB05 alone - added to old policy 3= PHI mifali NB05 alone - other new policy 4= PHI mifali NB05 alone - w/o other new policy

Associated Code Variables: flag code

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: flag_code

2.1.17.1.88 Input Variable: agency_no

Description: Osek Merushe number

Help: Agency Number (Osek merushe number)

Associated Code Variables: agency_no

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: osekno

2.1.17.1.89 Input Variable: year_start

Description: Year of policy start (origi-date)
Help: For reporting purposes only

Associated Code Variables: year_start

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: origi_date

2.1.17.1.90 Input Variable: year prod

Description: Year of policy production (prod-date)

Help: For reporting purposes only

Associated Code Variables: year_prod

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: pro_date

2.1.17.1.91 Input Variable: surr value if

Description: Surrender value at valn date from IF file

Help: units at valuation date (accumulation/reserve) per 1

benefit

Associated Code Variables: surr_value_if_input

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data

Value: sv

2.1.17.1.92 Input Variable: unit_value_savings

Description: Savings unit balance at valn date

Help: units at valuation date (extra savings account) per 1

benefit

Associated Code Variables: unit value savings input

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: gross_res

2.1.17.1.93 Input Variable: fund yesodi

Description: Fund (Keren) for main policy Help: 10 = yod,..., 1 = aleph

Associated Code Variables: fund_yesodi

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: 0
Valid Range To: 200

Choice List:

Value Type: Data Value: keren_yes

2.1.17.1.94 Input Variable: smoker_stat

Description: Smoker status

Help: Smoker status under which the policy has been

issued:

N = Non smoker, S = Smoker or A = Aggregate

Associated Code Variables: smoker_stat

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: Valid Range To:

Choice List:

Value Type: Data

Value: smoke_stat

2.1.17.1.95 Input Variable: sex

Description: Sex
Help: M = Male
F = Female

. . .

Associated Code Variables: sex

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: sex

2.1.17.1.96 Input Variable: saving perc

Description: Total percentage of savings (basic + extra)

Help: For Adif: Total percentage of savings (basic + pure

savings).

For Profil: Percetage of total premium allocated to

pure savings (rest goes to normal product).

Associated Code Variables: saving_perc

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: sav_perc

2.1.17.1.97 Input Variable: occ_key

Description: Occupational key

Help:

Associated Code Variables: occ_key

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: Valid Range To:

Choice List: 1,2,3

Value Type: Data Value: sug_isuk

2.1.17.1.98 Input Variable: risk si

Description: sum insured of risk rider with Meitav (Managers)
Help: This is the sum insured of the risk rider (Sapir) that

shares the total premium with the policy (Meitav

Managers) being run.

Associated Code Variables: risk_s

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: risk_si

2.1.17.1.99 Input Variable: policy type

Description: policy type

Help:

Associated Code Variables: policy_type

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: pol_type

2.1.17.1.100 Input Variable: groups_sol

Description: groups from solvency

Help:

Associated Code Variables: groups_sol

Modified On: 3/22/2023 2:02:28 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: Valid Range To:

Choice List:

Value Type: Data

Value: groups_sol

2.1.17.1.101 Input Variable: policy_type_orig

Description: original policy type

Help:

Associated Code Variables: policy_type_orig

Modified On: 12/26/2022 1:46:27 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data

Value: sug_polisa_makor

2.1.17.1.102 Input Variable: policies curr

Description: Number of policies inforce at valn date

Help: Current number of in force policies at the valuation

date.

Associated Code Variables: policies_curr

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: policies

2.1.17.1.103 Input Variable: riders_count_w

Description: Number of riders for current Profil policy

Help:

Associated Code Variables: riders_count_w_input

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: riders num

2.1.17.1.104 Input Variable: pol_number

Description: Policy number
Help: Policy number.
Associated Code Variables: pol number

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: pol_num

2.1.17.1.105 Input Variable: insured

Description: insured

Help: for health covers

1 = main 0 = child 2 = partner

(used for looking up correct premium rate for non-

family tarifs)

Associated Code Variables: insured

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: insure

2.1.17.1.106 Input Variable: fund

Description: Fund (Keren)

Help: 10 = yod, ..., 1 = aleph

Associated Code Variables: fund

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: Valid Range To:

Choice List:

Value Type: Data

Value: keren

2.1.17.1.107 Input Variable: error_code

Description: error code for data record

Help: 1 and 3 are OK

any other number will cause the record to be skipped

Associated Code Variables: error_code

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: ind_rec_so

2.1.17.1.108 Input Variable: elapsed months extra

Description: months between tarif & origi date

Help: The number of months, rounded up, from policy

inception to the valuation date.

Associated Code Variables: elapsed_months_extra

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: elapmthxt

2.1.17.1.109 Input Variable: paid up

Description: Paid up at valuation date? (Y/N)

Help:

Associated Code Variables: paid_up_input

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: Valid Range To:

Choice List:

Value Type: Data

Value: pup_stat

2.1.17.1.110 Input Variable: elapsed months

Description: Elapsed months at valn date

Help: The number of months, rounded up, from policy

inception to the valuation date.

Associated Code Variables: elapsed months

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data

Value: elaps_mths

2.1.17.1.111 Input Variable: company

Description: company name

Help: Use for looking up expenses from expense table.

Only used when lookup by prodcode = "Y"

Associated Code Variables: company

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: compeny

2.1.17.1.112 Input Variable: bonus inforce

Description: bonus inforce at valuation date

Help: variable linked with the reserve field from the inforce

file

Associated Code Variables: bonus_inforce

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data

Value: bonus

2.1.17.1.113 Input Variable: benefits_curr

Description: Number of covers at valuation date

Help: Current number of in force benefits at the valuation

date.

Associated Code Variables: benefits_curr

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: benefits

2.1.17.1.114 Input Variable: sum ins curr

Description: Sum Insured at valn date

Help:

Associated Code Variables: sum_ins_curr_input

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: sum_as

2.1.17.1.115 Input Variable: unit_value_accum

Description: Accum unit balance at valn date

Help:

Associated Code Variables: unit_value_accum_input

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: reserve

2.1.17.1.116 Input Variable: aloc kafuy

Description: alloc_kafuy field from data file

Help: Percentage of premium allocated to units. Each

element in the array applies for the number of months specified in the alloc_rate_period array. The first element in the array should be entered for period

1. Read in from alloc_rate_tbl in

set_common_variables.

Associated Code Variables: aloc kafuy

Modified On: 2/13/2025 3:51:32 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: aloc_kafuy

2.1.17.1.117 Input Variable: product_alloc_rate_percent

Description: product alloc_kafuy field from data file (no benefit)

Help: Percentage of premium allocated to units. Each

element in the array applies for the number of months specified in the alloc_rate_period array. The first element in the array should be entered for period

Read in from alloc_rate_tbl in

set_common_variables.

Associated Code Variables: product_alloc_rate_percent

Modified On: 3/13/2025 9:38:53 AM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data

Value: PRODUCT_ALLOC_RATE_PERCENT

2.1.17.1.118 Input Variable: allocation limit amount

Description: maximum DNP - monthly - shekel
Help: maximum DNP - monthly - shekel

Associated Code Variables: allocation_limit_amount

Modified On: 3/13/2025 9:39:37 AM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From:

Valid Range To:

Choice List:

Value Type: Data

Value: ALLOCATION_LIMIT_AMOUNT

2.1.17.1.119 Input Variable: imp manual alloc rate term dt

Description:

DNP benefit final date

Help:

DNP benefit final date

Associated Code Variables: imp_manual_alloc_rate_term_dt Modified On: 3/13/2025 9:40:20 AM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data

Value: IMP_MANUAL_ALLOC_RATE_TERM_DT

2.1.17.1.120 Input Variable: amla_hishtatfut_dnp

Description: Commission as % of DNP - With no VAT Help: Commission as % of DNP - With no VAT

Associated Code Variables: amla_hishtatfut_dnp

Modified On: 3/13/2025 9:40:45 AM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data

Value: AMLA_HISHTATFUT_DNP

2.1.17.1.121 Input Variable: age exact issue

Description: Age at issue Help: Age at issue.

Can be age last in years (e.g. 35) or exact age using

decimals (e.g. 35.75).

This age is rounded down in the model which is based on age last, incrementing by one year each

policy anniversary.

Associated Code Variables: age at issue

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: age

2.1.17.1.122 Input Variable: Chilean

Description: Chilean indicator for gimla

Help: Can be age last in years (e.g. 35) or exact age using

decimals (e.g. 35.75).

This age is rounded down in the model which is based on age last, incrementing by one year each

policy anniversary.

Associated Code Variables: chilean

Modified On: 5/15/2023 1:48:12 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: Chilean

2.1.17.1.123 Input Variable: foreign id

Description: Foreign / citizen insured identification

Help: Can be age last in years (e.g. 35) or exact age using

decimals (e.g. 35.75).

This age is rounded down in the model which is based on age last, incrementing by one year each

policy anniversary.

Associated Code Variables: foreign_id

Modified On: 5/15/2023 1:48:16 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: foreign_id

2.1.17.1.124 Input Variable: tat shnatiut input

Description: Foreign / citizen insured identification

Help: modal loading percentage. Set from fund_rate_tbl in

set exp variables if "read_from_table" = Y;

Associated Code Variables: tat_shnatiut_input

Modified On: 12/7/2023 12:03:09 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data

Value: TAT_SHNATIUT

2.1.17.1.125 Input Variable: prem_curr

Description: Annual gross premium

Help:

Associated Code Variables: prem_curr_input

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data

Value: gross_prem

2.1.17.1.126 Input Variable: prem orig

Description: Original premium at valn date

Help: Current in force annual premium per policy at the

valuation date.

Associated Code Variables: prem orig

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data

Value: gprem_orig

2.1.17.1.127 Input Variable: promil

Description: promil from data file

Help: Used for free covers (zero premium) as criteria to

skip or project the cover.

Associated Code Variables: promil

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: promil

2.1.17.1.128 Input Variable: policy_fee

Description: Annual policy fee

Help:

Associated Code Variables: policy_fee_input

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: gorem

2.1.17.1.129 Input Variable: prem_term

Description: Policy premium term (months)

Help:

Associated Code Variables: prem_term_input

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: term_prem

2.1.17.1.130 Input Variable: res kitzba

Description: reserve from inforce for kitzba

Help: variable linked with the kitzba reserve field from the

inforce file

Associated Code Variables: res_kitzba_input

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: res_kiz

2.1.17.1.131 Input Variable: dac tax inforce

Description: DAC tax or Zillmer from inforce

Help:

Associated Code Variables: dac_tax_inforce_input

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: taxdac_zil

2.1.17.1.132 Input Variable: dac_book_inforce

Description: DAC books from inforce

Help:

Associated Code Variables: dac book inforce input

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: book_dac

2.1.17.1.133 Input Variable: resinforce

Description: reserve from inforce

Help: variable linked with the reserve field from the inforce

file

Associated Code Variables: resinforce_input

Valid Range To:

Choice List: Value Type:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00) Modified By: CLAL-INS\NinaB Validation Failure Behaviour: Error Floating Point Number Variable Type: Valid Range From: Valid Range To: Choice List: Value Type: Data Value: reserve 2.1.17.1.134 Input Variable: profit weighting Description: profit weighting for IFRS Maximum cumulative claim inflation allowed (for Help: health products). As a percentage. For example, 200 means that the claims inflation will stop if and when the claims reach double the base assumption. Associated Code Variables: profit_weighting Modified On: 5/23/2022 11:42:19 AM (UTC+03:00) Modified By: CLAL-INS\ahuvaa Validation Failure Behaviour: Error Variable Type: Floating Point Number Valid Range From: Valid Range To: Choice List: Value Type: Data Value: profit_weighting 2.1.17.1.135 Input Variable: profit weighting re Description: profit weighting for IFRS Maximum cumulative claim inflation allowed (for Help: health products). As a percentage. For example, 200 means that the claims inflation will stop if and when the claims reach double the base assumption. Associated Code Variables: profit_weighting_re Modified On: 5/8/2023 9:44:26 AM (UTC+03:00) Modified By: CLAL-INS\Arikt Validation Failure Behaviour: Error Variable Type: Floating Point Number Valid Range From:

Data

Value: PROFIT_WEIGHTING_RE

2.1.17.1.136 Input Variable: profil_dynamic

Description: Profil dynamic model (0=No, 1=Yes) Help:

prem type (0=out, 1=in) per profil rider.

Associated Code Variables: profil dynamic

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Array

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: dynamic

2.1.17.1.137 Input Variable: profil_dyn_child_term

Description: Profil dynamic model-Risk reduction term for child

Help: prem type (0=out, 1=in) per profil rider.

Associated Code Variables: profil_dyn_child_term

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

CLAL-INS\NinaB Modified By:

Validation Failure Behaviour: Error

Variable Type: Integer Array

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: term child

2.1.17.1.138 Input Variable: profil dyn child sa

Description: Profil dynamic model-Amount of SA for child

Help: prem type (0=out, 1=in) per profil rider.

Associated Code Variables: profil dyn child sa

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Array

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: sa child

2.1.17.1.139 Input Variable: profil_dyn_spous_term

Description: Profil dynamic model-Risk reduction term for spous

Help: prem type (0=out, 1=in) per profil rider.

Associated Code Variables: profil_dyn_spous_term

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Array

Valid Range From: Valid Range To:

Choice List:

Value Type: Data

Value: term_spous

2.1.17.1.140 Input Variable: profil_dyn_spous_sa

Description: Profil dynamic model-Amount of SA for spous

Help: prem type (0=out, 1=in) per profil rider.

Associated Code Variables: profil_dyn_spous_sa

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Array

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: sa_spouse

2.1.17.1.141 Input Variable: pol_number_i

Description: Pol Number I

Help:

Associated Code Variables: pol_number_i

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: Valid Range To:

Choice List: 0
Value Type: Data
Value: pol num

2.1.18 Data Page: riders_Data

2.1.18.1 Assumption Set: Base

Description: Help:

Top Model Object:

Modified On: 8/19/2021 8:49:51 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Data Page Model Object: riders
Assumption Set Links: Unlinked
External Source: Riders
Model Point Extraction: None

Model Points:

Apply Model Point Weight No

Weighting File Weighted Data Field

Description: Aml Ni 1 6

Help:

Associated Code Variables: aml_ni_1_6

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: aml_ni_1_6

2.1.18.1.2 Input Variable: amla_1_6

Description: Amla 1 6

Help:

Associated Code Variables: amla 1 6

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: amla_1_6

2.1.18.1.3 Input Variable: amla_7

Description: Amla 7

Help:

Associated Code Variables: amla_7

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: amla_7

2.1.18.1.4 Input Variable: amla_ni_7

Description: Amla Ni 7

Help:

Associated Code Variables: amla_ni_7

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: amla_ni_7

2.1.18.1.5 Input Variable: dynamic

Description: Dynamic

Help:

Associated Code Variables: dynamic

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: dynamic

2.1.18.1.6 Input Variable: lod_amt_1

Description: Lod Amt 1

Help:

Associated Code Variables: lod_amt_1

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: lod_amt_1

Description: Lod Pe R 1

Help:

Associated Code Variables: lod pe r 1

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: lod_pe_r_1

2.1.18.1.8 Input Variable: pol_number_i

Description: Pol Number I

Help:

Associated Code Variables: pol_number_i

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: Valid Range To:

Choice List: 0
Value Type: Data
Value: keyfield

2.1.18.1.9 Input Variable: pr cov cal

Description: Pr Cov Cal

Help:

Associated Code Variables: pr_cov_cal

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: pr_cov_cal

2.1.18.1.10 Input Variable: prm_in_ppn

Description: Prm In Ppn Help: is set to 0 or 1

> 0 = rider premium is out 1 = rider premium is in

Associated Code Variables: prm_in_ppn

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data

Value: prm_in_ppn

2.1.18.1.11 Input Variable: retention

Description: Retention

Help:

Associated Code Variables: retention

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Floating Point Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: retention

2.1.18.1.12 Input Variable: rid_sex

Description: Rid Sex

Help:

Associated Code Variables: rid sex

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: rid_sex

2.1.18.1.13 Input Variable: risk_type

Description: Risk Type

Help:

Associated Code Variables: risk_type

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data
Value: risk_type

2.1.18.1.14 Input Variable: sum_as

Description: Sum As

Help:

Associated Code Variables: sum_as

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: sum_as

2.1.18.1.15 Input Variable: tarif

Description: Tarif

Help:

Associated Code Variables: tarif

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Validation Failure Behaviour: Error

Variable Type: Integer Number

Valid Range From: Valid Range To:

Choice List:

Value Type: Data Value: tarif

2.1.18.1.16 Input Variable: prem cover

Description: prem_cover

Help:

Associated Code Variables: prem_cover_input

Modified On: 8/19/2021 8:49:51 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Validation Failure Behaviour: Error
Variable Type: Character

Valid Range From: Valid Range To:

Choice List: 0
Value Type: Data

Value: prem_cover

2.1.19 External Sources

2.1.19.1 External Sources used in Input Pages

2.1.19.1.1 Excel External Sources

2.1.19.1.1.1 alloc

Modified On: 1/6/2022 5:45:42 PM (UTC+02:00)

Modified By: CLAL-INS\joshm Selection Type Named Range

Selection alloc

Cell Range

2.1.19.1.1.1.1 T:\RiskAgilityFM\Fixed tables\\Life_fixed_assumptions.xlsx

Projections used in: Base

File Size: 3.24 MB (3392547 Bytes)

File Date Modified: 2/12/2025 10:42:36 AM (UTC+02:00)

2.1.19.1.1.2 ann_mort_08_F_BE

Modified On: 1/6/2022 5:45:42 PM (UTC+02:00)

Modified By: CLAL-INS\joshm
Selection Type Named Range
Selection ann_mort_08_F_BE

2.1.19.1.1.2.1 T:\RiskAgilityFM\Fixed tables\\Life_fixed_assumptions.xlsx

Projections used in: Base

File Size: 3.24 MB (3392547 Bytes)

File Date Modified: 2/12/2025 10:42:36 AM (UTC+02:00)

2.1.19.1.1.3 ann_mort_08_F_res

Modified On: 1/6/2022 5:45:42 PM (UTC+02:00)

Modified By: CLAL-INS\joshm
Selection Type Named Range
Selection ann_mort_08_F_res

Cell Range

2.1.19.1.1.3.1 T:\RiskAgilityFM\Fixed tables\\Life_fixed_assumptions.xlsx

Projections used in: Base

File Size: 3.24 MB (3392547 Bytes)

File Date Modified: 2/12/2025 10:42:36 AM (UTC+02:00)

2.1.19.1.1.4 ann_mort_08_M_BE

Modified On: 1/6/2022 5:45:42 PM (UTC+02:00)

Modified By: CLAL-INS\joshm
Selection Type Named Range
Selection ann_mort_08_M_BE

Cell Range

2.1.19.1.1.4.1 T:\RiskAgilityFM\Fixed tables\\Life_fixed_assumptions.xlsx

Projections used in: Base

File Size: 3.24 MB (3392547 Bytes)

File Date Modified: 2/12/2025 10:42:36 AM (UTC+02:00)

2.1.19.1.1.5 ann_mort_08_M_res

Modified On: 1/6/2022 5:45:42 PM (UTC+02:00)

Modified By: CLAL-INS\joshm
Selection Type Named Range
Selection ann mort 08 M res

Cell Range

2.1.19.1.1.5.1 T:\RiskAgilityFM\Fixed tables\\Life_fixed_assumptions.xlsx

Projections used in: Base

File Size: 3.24 MB (3392547 Bytes)

File Date Modified: 2/12/2025 10:42:36 AM (UTC+02:00)

2.1.19.1.1.6 ann_mort_b3_08_F_BE

Modified On: 1/6/2022 5:45:42 PM (UTC+02:00)

Modified By: CLAL-INS\joshm Selection Type Named Range

Selection ann_mort_b3_08_F_BE

2.1.19.1.1.6.1 T:\RiskAgilityFM\Fixed tables\\Life_fixed_assumptions.xlsx

Projections used in: Base

File Size: 3.24 MB (3392547 Bytes)

File Date Modified: 2/12/2025 10:42:36 AM (UTC+02:00)

2.1.19.1.1.7 ann_mort_b3_08_F_res

Modified On: 1/6/2022 5:45:42 PM (UTC+02:00)

Modified By: CLAL-INS\joshm Selection Type Named Range

Selection ann_mort_b3_08_F_res

Cell Range

2.1.19.1.1.7.1 T:\RiskAgilityFM\Fixed tables\\Life_fixed_assumptions.xlsx

Projections used in: Base

File Size: 3.24 MB (3392547 Bytes)

File Date Modified: 2/12/2025 10:42:36 AM (UTC+02:00)

2.1.19.1.1.8 ann_mort_b3_08_M_BE

Modified On: 1/6/2022 5:45:42 PM (UTC+02:00)

Modified By: CLAL-INS\joshm Selection Type Named Range

Selection ann_mort_b3_08_M_BE

Cell Range

2.1.19.1.1.8.1 T:\RiskAgilityFM\Fixed tables\\Life_fixed_assumptions.xlsx

Projections used in: Base

File Size: 3.24 MB (3392547 Bytes)

File Date Modified: 2/12/2025 10:42:36 AM (UTC+02:00)

2.1.19.1.1.9 ann_mort_b3_08_M_res

Modified On: 1/6/2022 5:45:42 PM (UTC+02:00)

Modified By: CLAL-INS\joshm Selection Type Named Range

Selection ann_mort_b3_08_M_res

Cell Range

2.1.19.1.1.9.1 T:\RiskAgilityFM\Fixed tables\\Life_fixed_assumptions.xlsx

Projections used in: Base

File Size: 3.24 MB (3392547 Bytes)

File Date Modified: 2/12/2025 10:42:36 AM (UTC+02:00)

2.1.19.1.1.10 Annuity

Modified On: 6/7/2023 10:06:35 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet Selection Annuity

2.1.19.1.1.10.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions - variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.11 AnnuityDetails

Modified On: 6/7/2023 4:49:53 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet
Selection AnnuityDetails

Cell Range

2.1.19.1.1.11.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions - variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.12 AnnuityTU

Modified On: 6/7/2023 4:50:27 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet Selection AnnuityTU

Cell Range

2.1.19.1.1.12.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions - variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.13 Asset_Shocks

Modified On: 6/7/2023 4:51:30 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet
Selection Asset_Shocks

Cell Range

2.1.19.1.1.13.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions -

variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.14 bonus5

Modified On: 1/6/2022 5:45:43 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Selection Type Named Range

Selection bonus5

Cell Range

2.1.19.1.1.14.1 T:\RiskAgilityFM\Fixed tables\\Life_fixed_assumptions.xlsx

Projections used in: Base

File Size: 3.24 MB (3392547 Bytes)

File Date Modified: 2/12/2025 10:42:36 AM (UTC+02:00)

Modified On: 6/7/2023 4:51:00 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet

Selection claim_cost_phi12_ltc07

Cell Range

2.1.19.1.1.15.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions - variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.16 clms_mult

Modified On: 6/7/2023 4:51:39 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet Selection clms_mult

Cell Range

2.1.19.1.1.16.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions - variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.17 comm_extra

Modified On: 6/7/2023 4:52:33 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet Selection comm extra

Cell Range

2.1.19.1.1.17.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions - variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.18 comm_extra_agent

Modified On: 6/7/2023 4:52:54 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet

Selection comm extra agent

Cell Range

 $2.1.19.1.1.18.1 \hspace{3ex} S:\Data\ Files\Input\2412\Life\Model\ v97\Assumptions\Main\ assumptions-$

variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.19 commclaw

Modified On: 6/7/2023 4:53:07 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet Selection commclaw

Cell Range

2.1.19.1.1.19.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions -

variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.20 decrmult

Modified On: 6/7/2023 4:53:49 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet Selection decrmult

Cell Range

2.1.19.1.1.20.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions -

variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.21 Discount_Scenarios

Modified On: 6/7/2023 4:53:52 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet

Selection Discount Scenarios

2.1.19.1.1.21.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions - variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.22 Economic

Modified On: 6/7/2023 4:53:56 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet
Selection Economic

Cell Range

2.1.19.1.1.22.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions - variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.23 exp_mult

Modified On: 6/7/2023 4:54:07 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet Selection exp_mult

Cell Range

2.1.19.1.1.23.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions - variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.24 expense

Modified On: 6/7/2023 4:54:13 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet Selection expense

Cell Range

2.1.19.1.1.24.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions - variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.25 format_mgtfee

Modified On: 6/7/2023 4:54:50 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet
Selection format mgtfee

Cell Range

2.1.19.1.1.25.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions - variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.26 FreeInvRatio

Modified On: 6/7/2023 4:54:57 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet
Selection FreeInvRatio

Cell Range

2.1.19.1.1.26.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions - variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.27 fundrate

Modified On: 6/7/2023 4:55:21 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet Selection fundrate

Cell Range

2.1.19.1.1.27.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions - variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.28 gimla

Modified On: 1/6/2022 5:45:43 PM (UTC+02:00)

Modified By: CLAL-INS\joshm Selection Type Named Range

Selection GIMLA

Cell Range

2.1.19.1.1.28.1 T:\RiskAgilityFM\Fixed tables\\Life_fixed_assumptions.xlsx

Projections used in: Base

File Size: 3.24 MB (3392547 Bytes)

File Date Modified: 2/12/2025 10:42:36 AM (UTC+02:00)

2.1.19.1.1.29 lapse

Modified On: 6/7/2023 4:55:28 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet Selection lapse

Cell Range

2.1.19.1.1.29.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions -

variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.30 lapse_factor

Modified On: 6/7/2023 4:55:40 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet
Selection lapse factor

Cell Range

 $2.1.19.1.1.30.1 \hspace{3ex} S:\Data\ Files\Input\2412\Life\Model\ v97\Assumptions\Main\ assumptions\ -$

variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.31 lapse_factor_proj

Modified On: 12/19/2024 1:25:27 PM (UTC+02:00)

Modified By: CLAL-INS\arikt
Selection Type Worksheet
Selection lapse factor_proj

Cell Range

2.1.19.1.1.31.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions -

variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.32 life_treaty_details

Modified On: 6/7/2023 4:56:22 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet

Selection life treaty details

2.1.19.1.1.32.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions - variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.33 LifeReins

Modified On: 6/7/2023 4:56:33 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet
Selection LifeReins

Cell Range

2.1.19.1.1.33.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions - variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.34 margins

Modified On: 6/7/2023 4:56:38 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet Selection Margins

Cell Range

2.1.19.1.1.34.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions - variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.35 mass_lapse_tab

Modified On: 1/6/2022 5:45:43 PM (UTC+02:00)

Modified By: CLAL-INS\joshm
Selection Type Named Range
Selection MassLapTab

Cell Range

2.1.19.1.1.35.1 T:\RiskAgilityFM\Fixed tables\\Life_fixed_assumptions.xlsx

Projections used in: Base

File Size: 3.24 MB (3392547 Bytes)

File Date Modified: 2/12/2025 10:42:36 AM (UTC+02:00)

2.1.19.1.1.36 mortmult

Modified On: 6/7/2023 4:56:55 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet

Selection mortmult

Cell Range

2.1.19.1.1.36.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions - variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.37 Parameters

Modified On: 6/7/2023 4:57:17 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet
Selection Parameters

Cell Range

2.1.19.1.1.37.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions - variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.38 phi_recover

Modified On: 6/7/2023 4:57:41 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet
Selection phi_recover

Cell Range

2.1.19.1.1.38.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions - variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.39 prem_code_map

Modified On: 6/7/2023 4:58:14 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet
Selection prem_code_map

Cell Range

2.1.19.1.1.39.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions - variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.40 prem_rates

Modified On: 6/7/2023 4:58:26 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet Selection prem_rates

Cell Range

2.1.19.1.1.40.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions - variable.xlsx

Base

Projections used in:

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.41 premium_rates_rein_life

Modified On: 6/7/2023 4:58:36 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet

Selection premium rates rein life

Cell Range

2.1.19.1.1.41.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions -

variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.42 prod ass

Modified On: 6/7/2023 4:58:45 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet Selection prod_ass

Cell Range

2.1.19.1.1.42.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions -

variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.43 prod_spec_term

Modified On: 6/7/2023 4:58:55 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet
Selection prod_spec_term

2.1.19.1.1.43.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions - variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.44 prod_spec_trad

Modified On: 6/7/2023 4:59:03 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet
Selection prod_spec_trad

Cell Range

2.1.19.1.1.44.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions -

variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.45 prod_spec_unit

Modified On: 6/7/2023 4:59:11 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet
Selection prod_spec_unit

Cell Range

variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.46 profil_decrement_rates

Modified On: 1/6/2022 5:45:42 PM (UTC+02:00)

Modified By: CLAL-INS\joshm Selection Type Named Range

Selection profil decrement rates 11

Cell Range

2.1.19.1.1.46.1 T:\RiskAgilityFM\Fixed tables\\Life_fixed_assumptions.xlsx

Projections used in: Base

File Size: 3.24 MB (3392547 Bytes)

File Date Modified: 2/12/2025 10:42:36 AM (UTC+02:00)

2.1.19.1.1.47 profil_rider_claims_annuity_fac

Modified On: 6/7/2023 4:59:22 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet

Selection profil_rider_claims_annuity_fac

Cell Range

2.1.19.1.1.47.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions - variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.48 profil_rider_tarif_map

Modified On: 6/7/2023 4:59:33 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet

Selection profil rider tarif map

Cell Range

2.1.19.1.1.48.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions -

variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.49 RA_Factor

Modified On: 6/7/2023 4:59:39 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet Selection RA Factor

Cell Range

2.1.19.1.1.49.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions -

variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.50 Reserve_Factors

Modified On: 6/7/2023 4:59:52 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet
Selection Reserve_Factors

Cell Range

2.1.19.1.1.50.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions -

variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.51 Reserve_Manual

Modified On: 8/5/2024 3:30:55 PM (UTC+03:00)

Modified By: CLAL-INS\arikt
Selection Type Worksheet
Selection Reserve_Manual

Cell Range

2.1.19.1.1.51.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions -

variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.52 RFR_IFRS

Modified On: 6/8/2023 2:25:42 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet Selection RFR IFRS

Cell Range

 $2.1.19.1.1.52.1 \hspace{3ex} S:\Data\ Files\Input\2412\Life\Model\ v97\Assumptions\Main\ assumptions\ -$

variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.53 RFR Solv

Modified On: 6/7/2023 5:00:15 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet Selection RFR_Solv

Cell Range

2.1.19.1.1.53.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions -

variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.54 Run_Control

Modified On: 6/7/2023 5:00:32 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet
Selection Run_Control

2.1.19.1.1.54.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions - variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.55 sal_inc

Modified On: 6/7/2023 5:00:39 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet Selection sal inc

Cell Range

2.1.19.1.1.55.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions - variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.56 Sel_Ret_Qx

Modified On: 7/23/2024 3:22:52 PM (UTC+03:00)

Modified By: CLAL-INS\arikt
Selection Type Worksheet
Selection Sel_Ret_Qx

Cell Range

2.1.19.1.1.56.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions - variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.57 Serv_Units_Dur

Modified On: 6/11/2023 10:23:42 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet Selection Serv_Units_Dur

Cell Range

2.1.19.1.1.57.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions - variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.58 Shimur_disc

Modified On: 2/11/2024 3:08:52 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Selection Type Worksheet
Selection Shimur_Disc

Cell Range

2.1.19.1.1.58.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions - variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.59 surr_chg

Modified On: 1/6/2022 5:45:43 PM (UTC+02:00)

Modified By: CLAL-INS\joshm
Selection Type Named Range
Selection surr chg

Cell Range

2.1.19.1.1.59.1 T:\RiskAgilityFM\Fixed tables\\Life_fixed_assumptions.xlsx

Projections used in: Base

File Size: 3.24 MB (3392547 Bytes)

File Date Modified: 2/12/2025 10:42:36 AM (UTC+02:00)

2.1.19.1.1.60 Survival_Rates

Modified On: 6/7/2023 5:00:45 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet Selection Survival_Rates

Cell Range

2.1.19.1.1.60.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions - variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.61 T_Factors

Modified On: 6/7/2023 5:00:54 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet Selection T Factors

Cell Range

2.1.19.1.1.61.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions - variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.62 tarif_spec

Modified On: 6/7/2023 5:01:07 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet Selection tarif_spec

Cell Range

2.1.19.1.1.62.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions -

variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.63 tarif_spec_occ

Modified On: 6/7/2023 5:01:13 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet
Selection tarif_spec_occ

Cell Range

 $2.1.19.1.1.63.1 \hspace{3ex} S:\Data\ Files\Input\2412\Life\Model\ v97\Assumptions\Main\ assumptions\ -$

variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.64 tax_rates

Modified On: 6/7/2023 5:01:20 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Selection Type Worksheet Selection Tax_Rates

Cell Range

2.1.19.1.1.64.1 S:\Data Files\Input\2412\Life\Model v97\Assumptions\Main assumptions -

variable.xlsx

Projections used in: Base

File Size: 16.36 MB (17151815 Bytes)

File Date Modified: 6/18/2025 5:00:59 PM (UTC+03:00)

2.1.19.1.1.65 zillmer_prm

Modified On: 1/6/2022 5:45:43 PM (UTC+02:00)

Modified By: CLAL-INS\joshm
Selection Type Named Range
Selection zill prem

Cell Range

2.1.19.1.1.65.1 T:\RiskAgilityFM\Fixed tables\\Life_fixed_assumptions.xlsx

Projections used in: Base

File Size: 3.24 MB (3392547 Bytes)

File Date Modified: 2/12/2025 10:42:36 AM (UTC+02:00)

2.1.19.1.2 Text External Sources

2.1.19.1.2.1 Tzeva Kesef

Modified On: 7/28/2021 1:12:30 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Delimiter Type Comma
Treat Multiple Delimiters As One No
Avoid Extraction At Job Submission No

2.1.19.1.2.1.1 S:\Data Files\Input\2412\Life\Model v97\Data\SP\TK prop.csv

Projections used in: Base

File Size: 29.41 MB (30839570 Bytes)

File Date Modified: 1/12/2025 2:23:15 PM (UTC+02:00)

2.1.19.1.3 Composite External Sources

2.1.19.1.3.1 death_rates_comp

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Projections used in: Base

External Sources:

CMI00FN CMI00FN
CMI00FS CMI00MN
CMI00MS CMI00MS

2.1.19.1.3.2 death_rates_res_comp

Modified On: 3/12/2023 12:29:41 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Projections used in: Base

External Sources:

AMF4952 AMF4952_tbl

AMF80 AMF80 tbl

2.1.19.1.3.3 decrem_rates_com

Modified On: 3/19/2024 5:16:41 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Projections used in: Base

External Sources: decrem_rates_tbl **External Source** phi decrem hash acc hash acc phi_decrem_hash_acc_sick hash_acc_sick phi decrem PHI 1 PHI 1 PHI 3 phi_decrem_PHI_3 PHI_6 phi_decrem_PHI_6 phi_decrem_PHIMif_3 PHIMif_3 phi_decrem_PHIMif_6 PHIMif_6 ltc ltc dd 346 clal dd 346 clal dd 347 clal dd 347 clal dd 1363 dd 1363 dd_1362 dd_1362 tpd tpd

2.1.19.1.3.4 decrem_rates_uw_com

Modified On: 3/19/2024 5:16:18 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Projections used in: Base

External Sources:

adb 100 ADB 100 UW

adi_08 ADI_08_UW

2.1.19.1.3.5 prem_rates_extra

Modified On: 8/12/2021 9:36:16 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Projections used in: Base

External Sources:

a72 a72_prm a75 a75_prm

a80-00honi a80-00honi_prm a80-01hon a80-01hin_prm a80-01kitz a80-01kitz prm

rsapir1 rsapir1_prm rsapir5 rsapir5_prm asav asav_tbl sav-r sav_r_tbl ariske ariske_tbl

none a72_prm

2.1.19.1.3.6 prem_rates_level_comp

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Projections used in: Base

External Sources:

External Source prate level 50_rsapir5 rsapir5_50 50 rsapir1 rsapir1 50 52_rsapir1 rsapir1_52 52_rsapir5 rsapir5_52 20 rsapir1 rsapir1 20 20_rsapir5 rsapir5_20 44 rsapir1 rsapir1 44 rsapir5 44 44 rsapir5 9_rsapir1 rsapir1 9 9_rsapir5 rsapir5_9

2.1.19.1.3.7 prem_rates_risk_comp

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Projections used in: Base

External Sources:

prem_rates_riskExternal Source

50 rsapir5 rsapir5 50 50 rsapir1 rsapir1 50 rsapir1_52 52_rsapir1 rsapir5 52 52 rsapir5 20_rsapir1 rsapir1_20 20_rsapir5 rsapir5_20 44_rsapir1 rsapir1_44 44 rsapir5 rsapir5 44 9 rsapir1 rsapir1 9

2.1.19.1.3.8 prem_rates_risk_rider

rsapir5_9

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Projections used in: Base

External Sources:

9_rsapir5

prem_rates_riskExternal Source

50_rsapir5 rsapir5_50 50_rsapir1 rsapir1_50 52_rsapir1 rsapir1_52 52_rsapir5 rsapir5_52

20_rsapir1	rsapir1_20
20_rsapir5	rsapir5_20
44_rsapir1	rsapir1_44
44_rsapir5	rsapir5_44
9_rsapir1	rsapir1_9
9 rsapir5	rsapir5 9

2.1.19.1.3.9 pup

Modified On: 9/12/2021 5:01:14 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Projections used in: Base

External Sources:

pup_ltc_key External Source

 Itc02-3_F
 Itc02-3_F

 Itc02-3_M
 Itc02-3_M

 Itc02-5_F
 Itc02-5_F

Itc02-wi_M Itc02-wi_M

Itc-5_F Itc-5_F
Itc-5_M Itc-5_M

ltc07-3-y_M ltc07-3-y_M ltc07-5-y_F ltc07-5-y_F

Itc07-wl-y_F Itc07-wl-y_F
Itc07-wl-y_M Itc07-wl-y_M

Itc-mash_FItc-mash_FItc-mash_MItc-mash_MItc-shil FItc-shil F

Itc-shil_M Itc-shil_M

Itc-wl_F Itc-wl_F

Itc-wl_MItc-wl_MItc-yng-5_FItc-yng-5_FItc-yng-5_MItc-yng-5_MItc-yng-wl_FItc-yng-wl_F

Itc-yng-wl_M Itc-yng-wl_M

0 ltc02-5_F

2.1.19.1.3.10 puv_composite

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Projections used in: Base

External Sources:

puv_tbl External Source

1_puv_100 puv_1_100

1 puv 200 puv_1_200 1_puv_202 puv_1_202 1_puv_601_F puv_1_601_F 1_puv_601 M puv 1 601 M puv_1_620_F 1_puv_620_F 1_puv_620_M puv_1_620_M 4_puv_100 puv_4_100 4_puv_200 puv_4_200 puv_4_202 4_puv_202 puv_4_601_F 4_puv_601_F 4_puv_601 M puv 4 601 M puv 4 620 M 4 puv 620 M 4_puv_620 F puv 4 620 F 6_puv_100 puv_6_100 6_puv_108 puv_6_108 6_puv_147 puv_6_147 6 puv 200 puv 6 200 6_puv_202 puv_6_202 6 puv 601 F puv 6 601 F 6 puv 601 M puv_6_601_M 6_puv_620_F puv_6_620_F 6_puv_620 M puv_6_620_M 8_puv_100 puv_8_100 8_puv_106 puv_8_106 8_puv_108 puv_8_108 8 puv 147 puv 8 147 8_puv_200 puv_8_200 8 puv 202 puv 8 202 8 puv 601 F puv_8_601_F 8_puv_601_M puv_8_601_M 8_puv_620_F puv_8_620_F 8 puv 620 M puv 8 620 M 9_puv_100 puv_9_100 9_puv_106 puv_9_106 9 puv 108 puv 9 108 9_puv_141 puv_9_141 9_puv_147 puv_9_147 9_puv_200 puv_9_200 9 puv 202 puv_9_202 9 puv 601 F puv_9_601_F 9_puv_601 M puv 9 601 M 9_puv_604_F puv_9_604_F 9_puv_604_M puv_9_604_M puv_9_620 M 9 puv 620 M 9_puv_620_F puv_9_620_F 20_puv_100 puv_20_100 20 puv 106 puv 20 106 20 puv 141 puv 20 141 20_puv_200 puv_20_200 20 puv 202 puv 20 202 20_puv_601_F puv_20_601_F 20_puv_601_M puv_20_601_M 20 puv 604 F puv 20 604 F

```
20 puv 604 M puv 20 604 M
20 puv 620 F puv 20 620 F
20 puv 620 M puv 20 620 M
44 puv 100
            puv 44 100
            puv_44_106
44_puv_106
44 puv 141
             puv 44 141
             puv_44_200
44_puv_200
44_puv_202
             puv_44_202
44_puv_601_F puv_44_601_F
44_puv_601_M puv_44_601_M
44 puv 604 F puv 44 604 F
44 puv 604 M puv 44 604 M
44_puv_620_F puv_44_620_F
44 puv 620 M puv 44 620 M
50 puv 100
             puv_50_100
50_puv_106
             puv_50_106
50 puv 108
             puv 50 108
50_puv_141
            puv_50_141
50 puv 200
             puv 50 200
             puv_50_202
50 puv 202
50 puv 601 F puv 50 601 F
50 puv 601 M puv 50 601 M
50_puv_604_F puv_50_604_F
50_puv_604_M puv_50_604_M
50_puv_620_F puv_50_620_F
50 puv 620 M puv 50 620 M
            puv_52_100
52 puv 100
52 puv 141
             puv 52 141
             puv_52_200
52_puv_200
52_puv_202
             puv_52_202
52_puv_601_F puv_52_601_F
52 puv 601 M puv 52 601 M
```

2.1.19.1.3.11 suminisba

Modified On:
Modified By:
Projections used in:

External Sources:

prod_code **External Source** a72 a72 tbl a75 a75_tbl a80 00honi tbl a80-00honi a80-01kitz a80 01kitz tbl a80-01hon a80_01hon_tbl a100 a100 tbl ariske ariske tbl asav asav tbl asave asave tbl sav-r sav_r_tbl

8/27/2019 4:00:59 PM (UTC+03:00) CLAL-INS\NinaB

Base

sav-s sav_s_tbl

2.1.19.1.3.12 sv_composite

Modified On:

Modified By:

CLAL-INS\NinaB

Projections used in:

8/27/2019 4:00:59 PM (UTC+03:00)

CLAL-INS\NinaB

Base

External Sources:

```
sv tbl External Source
1_100 surval_1_100
1_200 surval_1_200
1_202 surval_1_202
1 601 surval 1 601
1_601_F
             surval_1_601_F
             surval_1_601_M
1_601_M
1_620_F
             surval_1_620_F
1_620_M
             surval_1_620_M
4_100 surval_4_100
4 200 surval 4 200
4_202 surval_4_202
4_601 surval_4_601
4 601 F
             surval 4 601 F
             surval_4_601_M
4_601_M
4_620_M
             surval_4_620_M
4 620_F
             surval_4_620_F
6 100 surval 6 100
6_108 surval_6_108
6 147 surval 6 147
6_200 surval_6_200
6_202_surval_6_202
6_601 surval_6_601
6 601 F
             surval 6 601 F
             surval 6 601 M
6 601 M
6 620 F
             surval_6_620_F
6 620_M
             surval 6 620 M
8_100 surval_8_100
8_106 surval_8_106
8_108 surval_8_108
8 147 surval 8 147
8 200 surval 8 200
8 202 surval 8 202
8_601 surval_8_601
8_601_F
             surval_8_601_F
8 601 M
             surval 8 601 M
8_620_F
             surval_8_620_F
8 620_M
             surval 8 620 M
9 100 surval 9 100
9 106 surval 9 106
9_108 surval_9_108
```

9 141 surval 9 141

```
9 147 surval 9 147
9_200 surval_9_200
9 202 surval 9 202
9 601 surval 9 601
9_601_F
              surval_9_601_F
9 601 M
              surval 9 601 M
              surval_9_604_F
9_604_F
9_604_M
              surval_9_604_M
9_620_M
              surval_9_620_M
9_620_F
              surval_9_620_F
20 100 surval 20 100
20 106 surval 20 106
20 141 surval 20 141
20 200 surval 20 200
20 202 surval 20 202
20_601 surval_20_601
20 601 F
              surval 20 601 F
              surval 20 601 M
20_601_M
20 604 F
              surval 20 604 F
20 604 M
              surval_20_604_M
20_620_F
              surval_20_620_F
20 620 M
              surval 20 620 M
44_100 surval_44_100
44_106 surval_44_106
44_141 surval_44_141
44 200 surval 44 200
44_202 surval_44_202
44 601 surval 44 601
44_601_F
              surval_44_601_F
44_601_M
              surval_44_601_M
44 604 F
              surval 44 604 F
44 604 M
              surval 44 604 M
44 620 F
              surval_44_620_F
              surval 44 620 M
44 620 M
50 100 surval 50 100
50_106 surval_50_106
50 108 surval 50 108
50_141 surval_50_141
50_200 surval_50_200
50 202 surval 50 202
50 601 surval 50 601
50_601_F
              surval_50_601_F
50 601 M
              surval 50 601 M
50 604 F
              surval 50 604 F
50_604_M
              surval_50_604_M
50_620_F
              surval_50_620_F
50 620 M
              surval 50 620 M
52 100 surval 52 100
52_141 surval_52_141
52 200 surval 52 200
52_202 surval_52_202
52_601_F
              surval_52_601_F
52 601 M
              surval 52 601 M
```

2.1.19.2 External Sources used in Data Pages

2.1.19.2.1 Text External Sources

2.1.19.2.1.1 **Policy data - Solvency**

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

2.1.19.2.1.1.1 S:\Data Files\Input\2412\Life\Model v97\Data\SP\Solvency.csv

Projections used in: Base

File Size: 2.1 KB (2165 Bytes)

File Date Modified: 6/8/2025 4:36:15 PM (UTC+03:00)

Data Page: life_Data

Number of Model Points Extracted at Job 1

Submission:

2.1.19.2.1.2 retirement_ages

Modified On: 7/22/2021 5:23:14 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

2.1.19.2.1.2.1 T:\RiskAgilityFM\Fixed tables\\multi_age_retirement.csv

Projections used in: Base

File Size: 100 Bytes (100 Bytes)

File Date Modified: 3/14/2024 3:42:15 PM (UTC+02:00)

Data Page: Ann_Data

Number of Model Points Extracted at Job 22

Submission:

2.1.19.2.1.3 Riders

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

2.1.19.2.1.3.1 S:\Data Files\Input\2412\Life\Model v97\Data\SP\Riders.txt

Projections used in: Base

File Size: 2.24 MB (2350937 Bytes)

File Date Modified: 1/12/2025 2:25:15 PM (UTC+02:00)

Data Page: riders_Data
Number of Model Points Extracted at Job 37807

Submission:

3 Referenced Files

Referenced files are not used in standalone runs or runs with "Process Input/Output locally on Compute Nodes" unchecked. The referenced input and output details are only displayed when "Process Input/Output locally on Compute Nodes" is checked.

4 Output Manager

4.1 OM Main

units_for_takeup

4.1.1 Output Definition: Cashflow - Unify

Model Object: life

Modified On: 9/17/2024 9:14:55 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Header Name Type Header1 Column age_last Column Header1 alloc_units Column Header1 bonus_shimur expense_clm Column Header1 coverage_units Column Header1 expense_init Column Header1 Column claims_insurance Header1 expense_ren Column Header1 Column Header1 be_retire Column Header1 int_cred cal_month Column Header1 Column Header1 cal_year Column Header1 comm_reg comm_profit Column Header1 claims_annuity_gt Column Header1 Column Header1 mgt_fees_prem Column Header1 prem_insurance prem_savings Column Header1

Column

Header1

cashflow_b	Column	Header1
service_units	Column	Header1
cashflow_e	Column	Header1
service_units_pv	Column	Header1
cashflow_pv	Column	Header1
cashflow_re_b	Column	Header1
cashflow_re_e	Column	Header1
cashflow_re_pv	Column	Header1
charges_premium	Column	Header1
charges_premium_pv	Column	Header1
claims_annuity	Column	Header1
claims_annuity_nogt	Column	Header1
claims_annuity_pv	Column	Header1
claims_death	Column	Header1
claims_death_pv	Column	Header1
claims_disability	Column	Header1
claims_disability_pv	Column	Header1
claims_maturity	Column	Header1
claims_maturity_pv	Column	Header1
claims_pv	Column	Header1
claims_re	Column	Header1
claims_surrender	Column	Header1
claims_surrender_pv	Column	Header1
claims_total	Column	Header1
comm_clawback	Column	Header1
comm_clawback_pv	Column	Header1

comm_prize Column Header1 comm_pv Column Header1 comm_re Column Header1 comm_reprof Column Header1 comm_repular Column Header1 comm_renewal Column Header1 comm_reserve Column Header1 comm_reserve_pv Column Header1 comm_supervisor Column Header1 cover_charge Column Header1 cover_charge Column Header1 dac_book Column Header1 dac_tax Column Header1 death_benefit Column Header1 death_claim_si Column Header1 death_claim_units Column Header1 death_rate Column Header1 expense_inflation Column Header1 expense_initial_fix Column Header1 expense_investment expense_investment_pv Column Header1	comm_hekef	Column	Header1
comm_pv	comm_nihul	Column	Header1
comm_re	comm_prize	Column	Header1
comm_re_prof Column Header1 comm_regular Column Header1 comm_renewal Column Header1 comm_reserve Column Header1 comm_reserve_pv Column Header1 comm_supervisor Column Header1 comm_total Column Header1 cover_charge Column Header1 dac_book Column Header1 dac_tax Column Header1 death_benefit Column Header1 death_claim_si Column Header1 death_claim_units Column Header1 death_rate Column Header1 expense_inflation Column Header1 expense_initial_fix Column Header1 expense_initial_perc Column Header1 expense_investment_pv Column Header1 expense_investment_pv Column Header1	comm_pv	Column	Header1
comm_regular Column Header1 comm_renewal Column Header1 comm_reserve Column Header1 comm_reserve_pv Column Header1 comm_supervisor Column Header1 comm_total Column Header1 cover_charge Column Header1 dac_book Column Header1 dac_tax Column Header1 death_benefit Column Header1 death_claim_si death_claim_units Column Header1 death_rate Column Header1 death_rate Column Header1 expense_inflation Column Header1 expense_initial_fix Column Header1 expense_initial_perc Column Header1	comm_re	Column	Header1
comm_renewal comm_reserve Column Header1 comm_reserve_pv Column Header1 comm_supervisor Column Header1 comm_total cover_charge dac_book Column Header1 dac_tax Column Header1 death_benefit Column Header1 death_claim_si Column Header1 death_claim_units Column Header1 death_rate column Header1 death_rate column Header1 column Header1 death_rate column Header1	comm_re_prof	Column	Header1
comm_reserve	comm_regular	Column	Header1
comm_reserve_pv	comm_renewal	Column	Header1
comm_supervisor comm_total cover_charge dac_book dac_tax death_benefit death_claim_si death_claim_units death_rate expense_initial_fix expense_initial_perc expense_investment_pv Column Header1	comm_reserve	Column	Header1
comm_total Column Header1 cover_charge Column Header1 dac_book Column Header1 dac_tax Column Header1 death_benefit Column Header1 death_claim_si Column Header1 death_claim_units Column Header1 death_rate Column Header1 expense_claims_pv Column Header1 expense_inflation Column Header1 expense_initial_fix Column Header1 expense_initial_perc Column Header1 expense_investment Column Header1 expense_investment Column Header1	comm_reserve_pv	Column	Header1
cover_charge	comm_supervisor	Column	Header1
dac_book Column Header1 dac_tax Column Header1 death_benefit Column Header1 death_claim_si Column Header1 death_claim_units Column Header1 death_rate Column Header1 expense_claims_pv Column Header1 expense_inflation Column Header1 expense_initial_fix Column Header1 expense_initial_perc Column Header1 expense_initial_perc Column Header1 expense_investment Column Header1 expense_investment Column Header1	comm_total	Column	Header1
dac_tax Column Header1 death_benefit Column Header1 death_claim_si Column Header1 death_claim_units Column Header1 death_rate Column Header1 expense_claims_pv Column Header1 expense_inflation Column Header1 expense_initial_fix Column Header1 expense_initial_perc Column Header1 expense_initial_perc Column Header1 expense_investment Column Header1 expense_investment Column Header1	cover_charge	Column	Header1
death_benefit	dac_book	Column	Header1
death_claim_si death_claim_units Column Header1 death_rate Column Header1 expense_claims_pv Column Header1 expense_inflation Column Header1 expense_initial_fix Column Header1 expense_initial_perc column Header1 expense_initial_perc Column Header1 expense_investment Column Header1 expense_investment Column Header1	dac_tax	Column	Header1
death_claim_units Column Header1 death_rate Column Header1 expense_claims_pv Column Header1 expense_inflation Column Header1 expense_initial_fix Column Header1 expense_initial_perc Column Header1 expense_initial_perc Column Header1 expense_investment Column Header1 expense_investment_pv Column Header1	death_benefit	Column	Header1
death_rate	death_claim_si	Column	Header1
expense_claims_pv	death_claim_units	Column	Header1
expense_inflation	death_rate	Column	Header1
expense_initial_fix column Header1 expense_initial_perc column Header1 expense_investment column Header1 expense_investment_pv column Header1	expense_claims_pv	Column	Header1
expense_initial_perc Column Header1 expense_investment Column Header1 expense_investment_pv Column Header1	expense_inflation	Column	Header1
expense_investment Column Header1 expense_investment_pv Column Header1	expense_initial_fix	Column	Header1
expense_investment_pv Column Header1	expense_initial_perc	Column	Header1
	expense_investment	Column	Header1
expense_pv Column Header1	expense_investment_pv	Column	Header1
	expense_pv	Column	Header1

expense_ren_charge	Column	Header1
expense_ren_charge_pv	Column	Header1
expense_ren_fix	Column	Header1
expense_ren_perc	Column	Header1
exp_total	Column	Header1
expense_var_pv	Column	Header1
interest_re	Column	Header1
interest_re_pv	Column	Header1
investment_income	Column	Header1
investment_income_chetz	Column	Header1
investment_income_chetz_pv	Column	Header1
investment_income_pv	Column	Header1
lapse_rate_act_prm	Column	Header1
lapse_total_prm	Column	Header1
management_fees	Column	Header1
management_fee_pv	Column	Header1
claims_annuity_nogt_pv	Column	Header1
pol_fee	Column	Header1
pol_fee_pv	Column	Header1
premium	Column	Header1
premium_disc	Column	Header1
premium_disc_pv	Column	Header1
premium_extra	Column	Header1
premium_gross	Column	Header1
premium_if_b	Column	Header1
premium_if_riders	Column	Header1

premium_pv	Column	Header1
premium_re	Column	Header1
profit_book_active_vif	Column	Header1
profit_bk_act_vif_pv	Column	Header1
profit_book_vif_pv	Column	Header1
profit_book_vif	Column	Header1
profit_net_vif	Column	Header1
profit_net_vif_pv	Column	Header1
profit_re_pv	Column	Header1
proj_month	Column	Header1
proj_year	Column	Header1
pup_rate_prm	Column	Header1
rein_claims_pv	Column	Header1
rein_comm_pv	Column	Header1
rein_prem_pv	Column	Header1
res_ann_deficiency	Column	Header1
reserve	Column	Header1
reserve_annuity	Column	Header1
reserve_basic	Column	Header1
reserve_claims	Column	Header1
reserve_extra	Column	Header1
reserve_increase	Column	Header1
surr_value	Column	Header1
reserve_increase_pv	Column	Header1
reserve_re	Column	Header1
reserve_re_increase	Column	Header1

reserve_re_increase_pv	Column	Header1
sum_insured	Column	Header1
sum_insured_if_e	Column	Header1
surv_prm	Column	Header1
units_e	Column	Header1
units_bon	Column	Header1
premium_if_b_total	Column	Header1
cashflow_b_bef_ret	Column	Header1
cashflow_b_post_ret	Column	Header1
profit_book_vif_pv_pos	Column	Header1
management_fees_fixed_ann	Column	Header1
reserve_pv	Column	Header1
manage_fees_fixed_ann_pv	Column	Header1
management_fees_var_active	Column	Header1
management_fees_var_ann	Column	Header1
manage_fees_var_ann_pv	Column	Header1
manage_fees_fixe_active_pv	Column	Header1
manage_fees_var_active_pv	Column	Header1
management_fees_fixed_active	Column	Header1
capital_at_risk	Column	Header1
capital_at_risk_rm	Column	Header1
ber_retire_rm	Column	Header1
bor_acc_pup	Column	Header1
claims_annuity_pv_rm	Column	Header1
claims_death_pv_rm	Column	Header1
claims_disability_pv_rm	Column	Header1

expense_pv_rm	Column	Header1
inv_income_chetz_pv_rm	Column	Header1
profit_book_vif_pv_pos_rm	Column	Header1
rid_cashflow_pv	Column	Header1
comm_renewal_pv	Column	Header1
premium_gross_fix	Column	Header1
premium_gross_var	Column	Header1
pol_month	Column	Header1
pol_year	Column	Header1
expense_total_pre_ret	Column	Header1
reserve_increase_bef_ret	Column	Header1
investment_income_bef_ret	Column	Header1
claims_lrc_q1	Column	Header1
claims_lrc_yr2plus	Column	Header1
bor_acc	Column	Header1
bor_return	Column	Header1
bor_return_pup	Column	Header1
comm_hekef_net	Column	Header1
cashflow_pv_e	Column	Header1
claims_lrc_q2	Column	Header1
claims_lrc_q3	Column	Header1
claims_lrc_q4	Column	Header1
claims_re_lrc_q1	Column	Header1
claims_re_lrc_q2	Column	Header1
claims_re_lrc_q3	Column	Header1
claims_re_lrc_q4	Column	Header1

claims_re_lrc_yr2plus	Column	Header1
expense_claims_lrc_q1	Column	Header1
expense_claims_lrc_q2	Column	Header1
expense_claims_lrc_q3	Column	Header1
expense_claims_lrc_q4	Column	Header1
expense_claims_lrc_yr2plus	Column	Header1
riskadj_gross_rel_q1	Column	Header1
riskadj_gross_rel_q2	Column	Header1
riskadj_gross_rel_q3	Column	Header1
riskadj_gross_rel_q4	Column	Header1
riskadj_gross_rel_total	Column	Header1
riskadj_gross_rel_yr2plus	Column	Header1
riskadj_re_rel_q1	Column	Header1
riskadj_re_rel_q2	Column	Header1
riskadj_re_rel_q3	Column	Header1
riskadj_re_rel_q4	Column	Header1
riskadj_re_rel_total	Column	Header1
riskadj_re_rel_yr2plus	Column	Header1
fvui	Column	Header1
lapse_rate_act_cnt	Column	Header1
lapse_rate_act_bal	Column	Header1
lapse_rate_pup_prm	Column	Header1
lapse_rate_pup_cnt	Column	Header1
pup_rate_cnt	Column	Header1
pup_rate_bal	Column	Header1
surv_bal	Column	Header1

riskadj_gross	Column	Header1
riskadj_net	Column	Header1
coverage_units_re	Column	Header1
profit_book_vif_gross	Column	Header1
profit_book_vif_gross_pv	Column	Header1
surv_cnt	Column	Header1
claim_cost	Column	Header1
claim_cost_pv	Column	Header1
claim_cost_pv_rm	Column	Header1
claim_cost_re_pv	Column	Header1
claim_cost_re	Column	Header1
claim_cost_re_pv_rm	Column	Header1
rein_claims_pv_rm	Column	Header1
cover_charge_pv	Column	Header1
income_b	Column	Header1
income_e	Column	Header1
income_pv	Column	Header1
outgo_b	Column	Header1
outgo_e	Column	Header1
outgo_pv	Column	Header1
cashflow	Column	Header1
expense_pv_active	Column	Header1
expense_pv_ann	Column	Header1
expense_investment_pv_bef_ret	Column	Header1
expense_investment_pv_post_ret	Column	Header1
expense_pv_active_no_inv	Column	Header1

comm_not_res_pv	Column	Header1
investment_income_pv_active	Column	Header1
reserve_increase_pv_active	Column	Header1
profit_book_vif_pv_active	Column	Header1
claims_maturity_ret_pv	Column	Header1
units_b	Column	Header1
management_fee_variable	Column	Header1
sum_insured_occ_gross	Column	Header1
sum_insured_occ_retent	Column	Header1
claims_retent	Column	Header1
reserve_claims_retent	Column	Header1
premium_disc_shimur	Column	Header1
premium_disc_shimur_pv	Column	Header1
total_bor_acc_pv	Column	Header1
total_bor_return_pv	Column	Header1
prem_savings_pv	Column	Header1
cashflow_pv_chetz	Column	Header1
nogt_annpv	Column	Header1
claims_lrc_q1_pv	Column	Header1
claims_lrc_q2_pv	Column	Header1
claims_Irc_q3_pv	Column	Header1
claims_Irc_q4_pv	Column	Header1
claims_lrc_yr2plus_pv	Column	Header1
expense_claims_lrc_q1_pv	Column	Header1
expense_claims_lrc_q2_pv	Column	Header1
expense_claims_lrc_q3_pv	Column	Header1

expense_claims_lrc_q4_pv	Column	Header1
expense_claims_lrc_yr2plus_pv	Column	Header1
claims_re_lrc_q1_pv	Column	Header1
claims_re_lrc_q2_pv	Column	Header1
claims_re_lrc_q3_pv	Column	Header1
claims_re_lrc_q4_pv	Column	Header1
claims_re_lrc_yr2plus_pv	Column	Header1
riskadj_gross_rel_q1_pv	Column	Header1
riskadj_gross_rel_q2_pv	Column	Header1
riskadj_gross_rel_q3_pv	Column	Header1
riskadj_gross_rel_q4_pv	Column	Header1
riskadj_gross_rel_total_pv	Column	Header1
riskadj_gross_rel_yr2plus_pv	Column	Header1
riskadj_re_rel_q1_pv	Column	Header1
riskadj_re_rel_q2_pv	Column	Header1
riskadj_re_rel_q3_pv	Column	Header1
riskadj_re_rel_q4_pv	Column	Header1
riskadj_re_rel_total_pv	Column	Header1
riskadj_re_rel_yr2plus_pv	Column	Header1

5 Code Manager

5.1 Model Tree

Model Object	Model Class	Base Model Class
life	life_cflow	
life term	sub1_cflow	
life trad	sub_2_cflow	
life accum	fund_cflow	
life acc_pup	fund_cflow	
life saving	fund_cflow	

Model Object	Model Class	Base Model Class
life saving_pup	fund_cflow	
life annuity	ann_cflow	
life riders	sub_array	

5.2 Project Variables

<No Project Variables Exist>

5.3 Model Classes

5.3.1 ann_cflow

Description:

Help:

Base Model Class: none Model References All

Read File: Before Start Up

Modified On: 6/17/2025 11:03:22 AM (UTC+03:00)

Modified By: CLAL-INS\arikt

5.3.1.1 Variables

5.3.1.1.1 age_diff

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.2 ann_fac_dthben

Description: Look up value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.3 ann_fac_gtee_value

Description: lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.4 ann_fac_joint

Description: Look up value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.5 ann_fac_no_gtee

Description: Look up value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.6 ann_series_prop

Description: Ann Series Prop

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.7 ann_series_temp

Description: Ann Series Temp

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.8 annuity details temp tbl

Description: Look up value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.9 base year

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: Al

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.10 freeinv_res_ann

Description: lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.11 freeinv_res_ann_inpay

Description: lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.12 freeinv_res_ann_tarif

Description: Use Int_Tarif switch

Help:

Modified On: 11/13/2024 10:46:08 PM (UTC+02:00)

Modified By: CLAL-INS\arikt

Category:

Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.13 fund t factor

Description: Lookup value constant

Help:

Modified On: 5/18/2023 9:55:22 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.14 gtee_ppn

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.15 gtee_prd

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.16 int_res_ann

Description: lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.17 int tarif

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.18 joint life ppn

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To: Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: (

5.3.1.1.19 life2_ppn

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.20 mgt fee fixed

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.21 mgt_fee_max

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.22 mgt_fee_var

Description: lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.23 no_gtee_ppn

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.24 redn_factor

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Till E

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.25 res_ann_exp

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.26 res_ann_mort_fac

Description: lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.27 retirement rate

Description: Percentage retiring at current age

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.28 sel death rate col

Description: Lookup value code variable wildcard

Help:

Modified On: 7/29/2024 2:10:48 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.29 temp_annuity_code

Description: Temp Annuity Code

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1

Choice List:

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.30 temp_fund_rates_tbl

Description: Lookup value constant

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.31 zeroise_ann_def

Description: Zeroise reserve annuity deficiency

Help:

Modified On: 6/17/2025 11:06:49 AM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category:

Variable Type: Character

Default Value:

Length:

N

Number of Decimals:

Choice List:

Y,N

Character Type:

Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.32 ann fac gtee

Description: policy ann factor- gteed

Help: policy annuity factor of not guaranteed period

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Annuity

Variable Type: Floating Point Number

Default Value: 0
Length: 6

Length: 6
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 1000000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.33 ann_fac_joint_temp

Description: policy ann factor-joint life

Help: policy annuity factor of not guaranteed period

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Annuity

Variable Type: Floating Point Number

Default Value: 0
Length: 6
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 1000000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.34 ann_fac_no_gtee_temp

Description: policy ann factor-no gteed

Help: policy annuity factor of not guaranteed period

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Annuity

Variable Type: Floating Point Number

Default Value: 0
Length: 6
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 1000000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.35 annuitization rate

Description: % of maturing policies taking annuity

Help: Percentage of maturing units that are converted

to an annuity.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Annuity

Variable Type: Floating Point Number

Default Value: 0.1
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.36 annuity code

Description: ann code to find policy ann factor

Help: This rate should be net of annuity payment

expenses, and should be rounded to the

nearest basis point.

It is used to lookup the annuity value. 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Annuity
Variable Type: Character
Default Value: 5_M_67
Length: 6

Number of Decimals: 0

Choice List:

Modified On:

Modified On:

Character Type: Standard

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.37 annuity_takeup_new_tag

Description: New tagmulim new annuity take up rate at

maturity

Help: This rate should be net of annuity payment

expenses, and should be rounded to the

nearest basis point.

It is used to lookup the annuity value. 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Annuity

Variable Type: Floating Point Number

Default Value: 87.5 Length: 0 Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 100 Valid Range To:

Table Format: **Default Row Numbers**

Set Value in Input Manager:

Not Shared Variable Sharing:

Category Order:

5.3.1.1.38 annuity takeup new tag res

Description: New tagmulim new annuity take up rate for

reserve calculation

Help: This rate should be net of annuity payment

expenses, and should be rounded to the

nearest basis point.

It is used to lookup the annuity value. 8/27/2019 4:00:59 PM (UTC+03:00)

Modified On: Modified By: CLAL-INS\ninab

Category: Annuity

Variable Type: Floating Point Number

Default Value: Length: 0 Number of Decimals: 2

Choice List:

Modified On:

Character Type: Not Applicable

Valid Range From: 0 Valid Range To: 100

Table Format: **Default Row Numbers**

Set Value in Input Manager:

Not Shared Variable Sharing:

Category Order: 0

5.3.1.1.39 annuity_takeup_old

Description: Old money annuity take up rate at maturity

This rate should be net of annuity payment Help:

expenses, and should be rounded to the

nearest basis point.

It is used to lookup the annuity value. 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Annuity

Variable Type: Floating Point Number

Default Value: 16.3 Length: 0

Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.40 annuity_takeup_old_res

Description: Old money annuity take up rate for reserve

calculation

Help: This rate should be net of annuity payment

expenses, and should be rounded to the

nearest basis point.

It is used to lookup the annuity value.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Annuity

Variable Type: Floating Point Number

Default Value: 6
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.41 annuity_takeup_piz

Description: Pitzuim annuity take up rate at maturity

Help:

This rate should be net of annuity payment expenses, and should be rounded to the

nearest basis point.

Modified On: It is used to lookup the annuity value. 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Annuity

Variable Type: Floating Point Number

Default Value: 17.9
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To: 100

Default Row Numbers Table Format:

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.42 annuity takeup piz res

Description: Pitzuim annuity take up rate for reserve

calculation

Help: This rate should be net of annuity payment

expenses, and should be rounded to the

nearest basis point.

It is used to lookup the annuity value. 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Annuity

Variable Type: Floating Point Number

Default Value: Length: 0 Number of Decimals: 2

Choice List:

Modified On:

Not Applicable Character Type:

Valid Range From: 100 Valid Range To:

Table Format: **Default Row Numbers**

Set Value in Input Manager:

Not Shared Variable Sharing:

Category Order:

5.3.1.1.43 annuity_takeup_prat

Description: Prat money annuity take up rate at maturity

This rate should be net of annuity payment Help:

expenses, and should be rounded to the

nearest basis point.

It is used to lookup the annuity value. 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Annuity

Variable Type: Floating Point Number

Default Value: 6 Lenath: 0 2 Number of Decimals:

Choice List:

Modified On:

Character Type: Not Applicable

Valid Range From: 0 Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.44 annuity takeup prat res

Description: Prat money annuity take up rate for reserve

calculation

Help: This rate should be net of annuity payment

expenses, and should be rounded to the

nearest basis point.

It is used to lookup the annuity value. 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Annuity

Variable Type: Floating Point Number

Default Value: 6
Length: 0
Number of Decimals: 2

Choice List:

Modified On:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.45 annuity_value_res_tbl

Description: Reserve Deficiency table of annuity values at

maturity

Help: Value of annuity of 100 per month, by calender

year at maturity and sex_maturity-

age_discount-rate.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Annuity

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Name (numeric)

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.46 takeup_age

Description: Take-up age for annuities

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Annuity

Variable Type: Integer Number

Default Value: 67
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.47 calyear

Description: Calyear

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Balance Sheet|Reserves

Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.48 col

Description: Col

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Balance Sheet|Reserves

Variable Type: Character

Default Value: F
Length: 10
Number of Decimals: 1
Choice List: F

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.49 exp_res

Description: Exp Res

Help: expense assumption for reserves Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Balance Sheet|Reserves Variable Type: Floating Point Number

Default Value: 0.7
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 20

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.50 freeinv_rate_res_ann

Description: Free Investment rate (%) for reserves

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Balance Sheet|Reserves
Variable Type: Floating Point Number

Default Value: 4
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 10

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.51 int_rate_res_ann

Description: interest rate (%) for reserves

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Balance Sheet|Reserves Variable Type: Floating Point Number

Default Value: 4
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 10

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.52 mort fac res ann

Description: mortality factor (%) for reserves

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Balance Sheet|Reserves
Variable Type: Floating Point Number

Default Value: 4
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 10

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.53 ann_series

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.54 ann_tu_newtag

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.55 ann_tu_newtag_res

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Economic assumptions

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.56 ann tu old

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.57 ann tu old res

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To: Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.58 ann_tu_piz

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.59 ann tu piz res

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.60 ann_tu_prat

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.61 ann_tu_prat_res

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.62 int_tarif_temp

Description: interest rate (%) for tarif

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Embedded Value|Outgo|Claims

Variable Type: Floating Point Number

Default Value: 4
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 10

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.63 mgt_fee_fixed_max

Description: maximum fixed mgt fee

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Embedded Value|Outgo|Claims

Variable Type: Floating Point Number

Default Value: 4
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 10

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.64 mgt_fee_fixed_temp

Description: fixed mgt fee

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Embedded Value|Outgo|Claims

Variable Type: Floating Point Number

Default Value: 4
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 10

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.65 mgt_fee_variable

Description: variable mgt fee

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Embedded Value|Outgo|Claims

Variable Type: Floating Point Number

Default Value: 4
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 10

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.66 antisel margin

Description: Anti select % for annuity payment

Help:

Modified On: 6/30/2024 2:51:03 PM (UTC+03:00)

Modified By: CLAL-INS\arikt Category: Mortality

Variable Type: Floating Point Number

Default Value: 0.03
Length: 110
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.67 death rates ann f 1

Description: Female Annuiants death rate table

Help: Death-only rate table

Modified On: 7/26/2021 2:55:55 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.68 death_rates_ann_f_2

Description: Female Annuiants death rate table

Help: Death-only rate table

Modified On: 7/26/2021 2:56:54 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.69 death_rates_ann_f_b3_2

Description: Female Annuiants death rate table - B3

mortality

Help: Death-only rate table

Modified On: 7/26/2021 2:56:54 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0 Length: 0 Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.70 death rates ann f res 1

Description: Female Annuiants death rate table

Help: Death-only rate table

Modified On: 7/26/2021 2:56:14 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.71 death rates ann f res 2

Description: Female Annuiants death rate table

Help: Death-only rate table

Modified On: 7/26/2021 2:56:54 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.72 death_rates_ann_f_res_b3_2

Description: Female Annuiants death rate table - B3

mortality

Help: Death-only rate table

Modified On: 7/26/2021 2:56:54 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.73 death_rates_ann_f_res_b3_tt

Description: Female Annuiants death rate table - B3

mortality

Help: Death-only rate table

Modified On: 7/26/2021 3:08:00 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.74 death rates ann f res tt

Description: Female Annuiants death rate table

Help: Death-only rate table

Modified On: 7/26/2021 3:07:50 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.75 death rates ann m 1

Description: Male Annuiants death rate table

Help: Death-only rate table

Modified On: 7/26/2021 2:56:29 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.76 death_rates_ann_m_2

Description: Male Annuiants death rate table

Help: Death-only rate table

Modified On: 7/26/2021 2:56:54 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.77 death_rates_ann_m_b3_2

Description: Male Annuiants death rate table - B3 mortality

Help: Death-only rate table

Modified On: 7/26/2021 2:56:54 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.78 death_rates_ann_m_res_1

Description: Male Annuiants death rate table

Help: Death-only rate table

Modified On: 7/26/2021 2:56:42 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.79 death_rates_ann_m_res_2

Description: Male Annuiants death rate table

Help: Death-only rate table

Modified On: 7/26/2021 2:56:54 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.80 death_rates_ann_m_res_b3_2

Description: Male Annuiants death rate table - B3 Mortality

Help: Death-only rate table

Modified On: 7/26/2021 2:56:54 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.81 death_rates_ann_m_res_b3_tt

Description: Male Annuiants death rate table - B3 Mortality

Help: Death-only rate table

Modified On: 7/26/2021 3:08:19 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.82 death_rates_ann_m_res_tt

Description: Male Annuiants death rate table

Help: Death-only rate table

Modified On: 7/26/2021 3:08:13 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.83 dth_rts_m_row_key_tt

Description: Lookup value code variable

Help:

Modified On: 7/26/2021 2:45:33 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Mortality

Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.84 gtee_ppn_temp

Description: pmt prcntg of gteed annuity

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Mortality

Variable Type: Floating Point Number

Default Value: 60
Length: 110
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.85 joint life ppn temp

Description: pmt prcntg of jointlife annuity

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Mortality

Variable Type: Floating Point Number

Default Value: 60
Length: 110
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.86 life2 ppn temp

Description: pmt prcntg of life2 forf joint life

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Mortality

Variable Type: Floating Point Number

Default Value: 60
Length: 110
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.87 no_gtee_ppn_temp

Description: pmt prcntg of not gteed annuity

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Mortality

Variable Type: Floating Point Number

Default Value: 60
Length: 110
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.88 qx_sd_comp

Description: qx composition standard deviation

Help: This flat rate adjustment is added directly to the

qx. Array items relate to policy years: year 1=array item 1. Array item 0 is not used. 8/27/2019 4:00:59 PM (UTC+03:00)

Modified On: 8/27/2019 4:00:59 PM (

Modified By: CLAL-INS\ninab

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0

Length: 110 Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: -1
Valid Range To: 10

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.89 qx_sd_comp_res

Description: qx composition standard deviation for reserves
Help: This flat rate adjustment is added directly to the

qx. Array items relate to policy years: year 1=array item 1. Array item 0 is not used.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Mortality

Variable Type: Floating Point Number

Default Value: 1
Length: 110
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: -1
Valid Range To: 10

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.90 qx_sd_random

Description: qx random standard deviation

Help: This flat rate adjustment is added directly to the

qx. Array items relate to policy years: year 1=array item 1. Array item 0 is not used. 8/27/2019 4:00:59 PM (UTC+03:00)

Modified On: 8/27/2019 4:00:59 PM (In Modified By: CLAL-INS\ninab

viodinou by.

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 110
Number of Decimals: 7

Choice List:

Character Type: Not Applicable

Valid Range From: -1

Valid Range To: 2

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.91 qx sd random res

Description: qx random standard deviation for reserves

Help:

This flat rate adjustment is added directly to the qx. Array items relate to policy years: year

1=array item 1. Array item 0 is not used.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Mortality

Variable Type: Floating Point Number

Default Value: 2
Length: 110
Number of Decimals: 7

Choice List:

Character Type: Not Applicable

Valid Range From: -1
Valid Range To: 2

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.92 sel_ret_qx_im_dth_1

Description:

Help: Death-only rate table

Modified On: 7/23/2024 3:17:56 PM (UTC+03:00)

Modified By: CLAL-INS\arikt Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.93 sel_ret_qx_im_dth_2

Description:

Help: Death-only rate table

Modified On: 7/23/2024 3:37:02 PM (UTC+03:00)

Modified By: CLAL-INS\arikt Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.94 benefit_term

Description: Policy benefit term (months)

Help: The original policy (benefit) term in integral

months calculated from the issue date to the

date of policy expiry.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details Variable Type: Integer Number

Default Value: 120
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 1
Valid Range To: 1200

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.95 joint_life_status

Description: Joint life status

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details

Variable Type: Character
Default Value: Single
Length: 10
Number of Decimals: 0

Choice List: Single, Joint Life
Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.96 maturity_period_ann

Description: Period t in which annuity ends up Help: Calculated in startup column.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Policy Details
Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 600

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.97 maturity period w

Description: Period t in which policy matures
Help: Calculated in startup column.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 600

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order:

5.3.1.1.98 gteed_term

Description: Guaranteed term (in months)

Help: Original guaranteed term (in months from policy

commencement)

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Policy Details|Annuity
Variable Type: Integer Number

Default Value: 240
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 240

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.99 age_ann_start_1

Description: Age at annunity start- life 1

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Policy Details|Details Life 1

Variable Type: Integer Number

Default Value: 67
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.100 age_ann_start_2

Description: Age at annunity start- life 2

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Policy Details|Details Life 1

Variable Type: Integer Number

Default Value: 65
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.101 age_diff_temp

Description: Age diff. between life 1 & 2

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Policy Details|Details Life 1

Variable Type: Integer Number

Default Value: 2
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.102 sex1

Description: Sex of life 1
Help: M = Male

F = Female

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Policy Details|Details Life 1

Variable Type: Character

Default Value: M
Length: 1
Number of Decimals: 0
Choice List: M,F
Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.103 sex2

Description: Sex of life 2
Help: M = Male

F = Female

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Policy Details|Details Life 2

Variable Type: Character

Default Value: F
Length: 1
Number of Decimals: 0
Choice List: M,F
Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.104 dump vars

Description: Output all variables to logfile?

Help:

If Y, the program will output all variables to the log stream after the startup has been executed

in each model. NB Should only be set to Y for testing purposes, as will create HUGE amounts of output in the log file when run with a large

policy file.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Setup Variable Type: Character

Default Value: N Length: 1 Number of Decimals:0Choice List:Y,NCharacter Type:Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.105 commence period w

Description: Period t in which policy commences

Help: Calculated in startup column.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Setup|Initialise
Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: -600
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.106 yob 1

Description: year of birth of Life 1

Help: Highest age in mortality table for life 1. Internal

logic variable calculated in matured formula.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Setup|Initialise Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.107 yob_2

Description: year of birth of Life 2

Help: Highest age in mortality table for life 1. Internal

logic variable calculated in matured formula.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Setup|Initialise
Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.108 death_ben

Description: Death benefit payable?

Help: The death benefit, if payable, would be the

accumulation of premiums.

Y = death benefit payable during the deferment

period

N = no death benefit payable

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Setup|Run Control

Variable Type: Character

Default Value:

Length:

Number of Decimals:

Choice List:

Character Type:

N

Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.109 death_ben_curr

Description: current death benefit at valuation date

Help: The death benefit, if payable, would be the

accumulation of premiums.

Y = death benefit payable during the deferment

period

N = no death benefit payable

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Setup|Run Control
Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 0
Choice List: Y,N

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 2500

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.1.110 year ann start

Description: year at annuity start

Help: Valuation occurs at end of valn_month in

valn_year

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Setup|Run Control
Variable Type: Integer Number

Default Value: 2010
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 1980 Valid Range To: 2100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.1.2 Columns

5.3.1.2.1 cashflow_b_post_ret

Description: Cashflow B Post Ret

Help:

Modified On: 8/4/2021 3:22:20 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category:

Column Header: cashflow_b_post_ret

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.2 res ann deficiency

Description: Res Ann Deficiency

Help:

Modified On: 6/17/2025 11:11:59 AM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category:

Column Header: res_ann_deficiency

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

False

False

5.3.1.2.3 claims_annuity_nogt_pv

Description: claims_annuity_nogt_pv

Help:

Modified On: 8/4/2021 3:22:41 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Annuity

Column Header: claims_annuity_nogt_pv

Combine Groups By: Sum Both Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

-1

End

Yes

Rate Use:

Cash Flow
Rebase Type:
Previous
Retain Value:

Override:
Virtual:

False

5.3.1.2.4 claims_annuity_pv

Description: Claims Annuity Pv

Help:

Modified On: 8/4/2021 3:22:56 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Annuity

Column Header: claims_annuity_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.5 int_rate_annuity_reserve

Description: Interest Rate for Annuity Reserve

Help:

Modified On: 8/4/2021 3:30:26 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Balance Sheet|Reserves Column Header: int_rate_annuity_reserve

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

End

Yes

Cash Flow

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flo
Previous
Yes
Previous
Yes
False

5.3.1.2.6 res_basic_jl_1

Description: Res Basic for joint life - first life

Help:

Modified On: 8/4/2021 3:37:24 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Balance Sheet|Reserves

Column Header: res_basic_jl_1
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.1.2.7 res_payment_1

Description: Reserve annuity payment for main life

Help:

Modified On: 1/11/2023 11:29:01 AM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa
Category: Balance Sheet|Reserves

Column Header: res_payment_1
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

Yes

False

5.3.1.2.8 res_payment_2

Description: Reserve annuity payment for secondary life

Help:

Modified On: 1/11/2023 11:29:05 AM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa
Category: Balance Sheet|Reserves

Column Header: res_payment_2
Combine Groups By: Sum Both
Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

-1

End

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.1.2.9 res_payment_pv_1

Description: Present value for reserve payments for primary

life

Help:

Modified On: 8/4/2021 3:38:13 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Balance Sheet|Reserves
Column Header: res payment pv 1

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Last

-1

Discount Timing: End
Discount Use: Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

Yes

False

5.3.1.2.10 res payment pv 2

Description: Present value for reserve payments for

secondary life

Help:

Modified On: 8/4/2021 3:38:21 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Balance Sheet|Reserves Column Header: res_payment_pv_2

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.11 ann_takeup_rate

Description: annuitization rate

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Annuity Deficiency

Column Header: ann_takeup_rate

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.1.2.12 ann_certain_fac

Description: Annuity certain factor - an

Help:

Modified On: 8/12/2021 4:17:11 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: ann_certain_fac
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

No

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.13 ann_defer_fac

Description: Annuity factor for life 1- ax defered of gteed

Help:

Modified On: 8/15/2021 3:44:46 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: ann_defer_fac
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.1.2.14 annuity_fac_1

Description: Annuity factor for life 1- ax

Help:

Modified On: 8/15/2021 3:44:25 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: annuity_fac_1
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

No

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.15 assurance fac 1

Description: Assurance factor for life 1- Ax

Help:

Modified On: 8/9/2021 10:40:24 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: assurance_fac_1
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

End

Discount Use:

No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.1.2.16 bonus index

Description: accumulate bonus rate for ann payment

Help:

Modified On: 2/26/2025 1:59:09 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Balance Sheet|Reserves|Basic Reserve

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

bonus_index

Sum Both

Last

-1

End

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow
Previous
Yes
False
False

5.3.1.2.17 res_basic_dth

Description: Basic reserve - death benefit

Help:

Modified On: 8/9/2021 10:46:00 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: res_basic_dth
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

False

False

5.3.1.2.18 res_basic_gt

Description: Basic reserve - guaranteed

Help:

Modified On: 10/3/2021 1:48:40 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: res_basic_gt
Combine Groups By: Sum Both
Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.1.2.19 res_basic_gt_su

Description: Basic reserve - guaranteed - for Service units

Help:

Modified On: 5/29/2025 12:12:00 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: res_basic_gt_su
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.20 res_basic_jl

Description: Basic reserve - jointlife

Help:

Modified On: 8/9/2021 10:46:17 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: res_basic_jl
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.21 res_basic_jl_2

Description: Res basic for joint life - second life

Help:

Modified On: 8/9/2021 10:46:27 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: res_basic_jl_2
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.1.2.22 res_basic_nogt

Description: Basic reserve - not guaranteed

Help:

Modified On: 8/9/2021 10:46:35 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: res_basic_nogt
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.23 reserve_basic

Description: Total basic reserve -

Help:

Modified On: 5/16/2023 2:17:38 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: reserve_basic
Combine Groups By: Sum Both
Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

No

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

False

False

5.3.1.2.24 bonus_index_dth

Description: Bonus Index for death benefits

Help:

Modified On: 8/4/2021 2:47:36 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Cashflows

Column Header: bonus_index_dth

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.1.2.25 bonus_index_gteed

Description: Bonus Index for guaranteed annuities

Help:

Modified On: 8/4/2021 2:47:50 PM (UTC+03:00)

Modified By: CLAL-INS\joshm Category: Cashflows

Column Header: bonus_index_gteed

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.26 bonus_index_jl_1

Description: Bonus Index for joint life annuities - first life

Help:

Modified On: 8/4/2021 2:48:07 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Cashflows

Column Header: bonus_index_jl_1

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.1.2.27 bonus_index_jl_2

Description: Bonus Index for joint life annuities - first life

Help:

Modified On: 8/4/2021 2:48:22 PM (UTC+03:00)

Modified By: CLAL-INS\joshm Category: Cashflows

Column Header: bonus_index_jl_2

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

Yes

False

5.3.1.2.28 bonus_index_no_gtee

Description: Bonus Index for non-guaranteed annuities

Help:

Modified On: 8/4/2021 2:48:57 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Cashflows

Column Header: bonus_index_no_gtee

Combine Groups By: Sum Both Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

-1

End

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.1.2.29 bor_acc_dth

Description: Management fees owing (bor) for death

benefits

Help:

Modified On: 8/4/2021 2:49:09 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category:
Column Header:
bor_acc_dth
Combine Groups By:
Combine Periods:
Default sliding Size:
Discount Timing:
Discount Use:

Cashflows
bor_acc_dth
Cumbine Periods:
Last
Last
Last
Last
Last
Light Piccount Vision Provided Provid

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.1.2.30 bor_acc_gtd

Description: Management fees owing (bor) for guaranteed

policies

Help:

Modified On: 8/4/2021 2:53:50 PM (UTC+03:00)

Modified By: CLAL-INS\joshm Category: Cashflows Column Header: bor_acc_gtd

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.1.2.31 bor_acc_jl1

Management fees owing (bor) for joint-life Description:

policies (first life)

Yes

Help:

8/4/2021 2:53:58 PM (UTC+03:00) Modified On:

Modified By: CLAL-INS\joshm

Category: Cashflows Column Header: bor_acc_jl1 Combine Groups By: Sum Both Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End

Discount Use: Cash Flow Rate Use: Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.1.2.32 bor acc jl2

Description: Management fees owing (bor) for joint-life

policies (second life)

Help:

Modified On: 8/4/2021 2:54:55 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Cashflows Column Header: bor acc jl2 Combine Groups By: Sum Both Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End

Discount Use: Yes Cash Flow Rate Use: Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.1.2.33 bor_acc_notg

Description: Management fees owing (bor) for non-

guaranteed policies

Help:

Modified On: 8/4/2021 3:21:05 PM (UTC+03:00)

Modified By: CLAL-INS\joshm Category: Cashflows Column Header: bor_acc_notg Combine Groups By: Sum Both Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Discount Use: Yes Rate Use: Cash Flow Rebase Type: Previous Yes

Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.34 bor_return_dth

Description: Owed management fees (bor) returned for

death benefits

Help:

Modified On: 9/25/2024 1:25:38 PM (UTC+03:00)

Modified By:

Category:

Coshflows

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

CLAL-INS\arikt

Cashflows

Sum Both

Last

-1

End

Discount Use:

Rate Use:
Cash Flow
Rebase Type:
Previous
Retain Value:
Yes
Override:
False
Virtual:
False

5.3.1.2.35 bor_return_gtd

Description: Owed management fees (bor) returned for

guaranteed annuities

Help:

Modified On: 9/25/2024 12:44:13 PM (UTC+03:00)

Modified By:
Category:
Cashflows
Column Header:
Combine Groups By:
Combine Periods:
Last

Default sliding Size:

Discount Timing:

End
Discount Use:

Yes

Rate Use: Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.36 bor_return_jl1

Description: Owed management fees (bor) returned for joint-

life annuities (first life)

Help:

Modified On: 9/25/2024 1:12:50 PM (UTC+03:00)

Modified By: CLAL-INS\arikt Category: Cashflows Column Header: bor return jl1 Sum Both Combine Groups By: Combine Periods: Last -1 Default sliding Size: **Discount Timing:** End Discount Use: Yes Cash Flow

Rate Use: Cash Flo
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.37 bor return jl2

Description: Owed management fees (bor) returned for joint-

Yes

life annuities (second life)

Help:

Discount Use:

Modified On: 9/25/2024 1:23:44 PM (UTC+03:00)

Modified By:

Category:

Cashflows

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

CLAL-INS\arikt

Cashflows

bor_return_jl2

Sum Both

Last

-1

Discount Timing:

End

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.38 bor_return_nogt

Description: Owed management fees (bor) returned for non-

guaranteed annuities

Help:

Modified On: 9/25/2024 1:02:06 PM (UTC+03:00)

Modified By:
Category:
Column Header:
Combine Groups By:
Combine Periods:
Default sliding Size:
Discount Timing:

CLAL-INS\arikt
Cashflows
bor_return_nogt
Sum Both
Last
-1
End

Discount Use: Yes
Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.39 cashflow_pv

Description: Cashflow Pv

Help:

Discount Use:

Modified On: 8/4/2021 3:22:30 PM (UTC+03:00)

Yes

Modified By:
Category:
Column Header:
Combine Groups By:
Combine Periods:
Default sliding Size:
Discount Timing:

CLAL-INS\joshm
Cashflows
cashflow_pv
Sum Both
Last
-1
End

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.1.2.40 cashflow_pv_chetz

Description: Cashflow Pv - chetz ribit

Help:

Modified On: 7/14/2024 2:11:41 PM (UTC+03:00)

Modified By: CLAL-INS\arikt Category: Cashflows

Column Header: cashflow_pv_chetz

Combine Groups By: Sum Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.1.2.41 cashflow_pv_e

Description: Cashflow Pv discoutned EOP

Help:

Modified On: 7/19/2022 3:19:28 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Cashflows
Column Header: cashflow_pv_e
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1

Discount Timing:

Discount Use:

Rate Use:

Rebase Type:

Retain Value:

Override:

End

Yes

Cash Flow

Previous

Yes

False

5.3.1.2.42 cashflow_pv_ifrs

Description: Cashflow Pv - IFRS

Help:

Virtual:

Modified On: 7/14/2024 2:10:25 PM (UTC+03:00)

False

Modified By: CLAL-INS\arikt
Category: Cashflows
Column Header: cashflow_pv_ifrs

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.43 cashflow_pv_res

Description: Cashflow Pv - res

Help:

Modified On: 7/14/2024 2:09:10 PM (UTC+03:00)

Modified By: CLAL-INS\arikt
Category: Cashflows
Column Header: cashflow_pv_res

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

False

False

5.3.1.2.44 har_acc_dth

Description: Variable management fees paid to that point in

year (har) for death benefits

Help:

Modified On: 8/4/2021 3:28:27 PM (UTC+03:00)

Modified By:
Category:
Cashflows
Column Header:
Combine Groups By:
Combine Periods:
Default sliding Size:
Discount Timing:

CLAL-INS\joshm
Cashflows
har_acc_dth
Sum Both
Last
-1
End

Discount Use:

Rate Use:

Cash Flow
Rebase Type:

Retain Value:

Override:

Virtual:

Yes

Cash Flow

Previous

Yes

False

False

5.3.1.2.45 har_acc_jl1

Description: Variable management fees paid to that point in

year (har) for joint-life annuities (first life)

Help:

Modified On: 8/4/2021 3:28:37 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Cashflows
Column Header: har_acc_jl1
Combine Groups By: Sum Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

Pind

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

False

False

5.3.1.2.46 har_acc_jl2

Description: Variable management fees paid to that point in

year (har) for joint-life annuities (second life)

Help:

Discount Use:

Modified On: 8/4/2021 3:28:44 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category:
Cashflows
Column Header:
Combine Groups By:
Combine Periods:
Default sliding Size:
Discount Timing:
Cashflows
Ar_acc_jl2
Sum Both
Last
Last
-1

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow
Previous
Yes
Yes
False

5.3.1.2.47 har_acc_nogt

Description: Variable management fees paid to that point in

Yes

year (har) for non-guaranteed annuities

Help:

Modified On: 8/4/2021 3:28:51 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Cashflows
Column Header: har_acc_nogt
Combine Groups By: Sum Both
Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

-1

End

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False

Virtual: False

5.3.1.2.48 har_accum_gtd

Description: Variable management fees paid to that point in

year (har) for guaranteed annuities

Help:

Modified On: 8/4/2021 3:28:59 PM (UTC+03:00)

Modified By: CLAL-INS\joshm Cashflows Category: Column Header: har accum gtd Sum Both Combine Groups By: Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Yes Discount Use: Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes

5.3.1.2.49 har_return_dth

Description: Management Fees Variable Repaid for death

benefits

False

False

Help:

Override: Virtual:

Modified On: 8/4/2021 3:29:08 PM (UTC+03:00)

Modified By:
Category:
Cashflows
Column Header:
Combine Groups By:
Combine Periods:
Default sliding Size:

CLAL-INS\joshm
Cashflows
Cashflows
Sum Both
Sum Both
Last
-1

Discount Timing: End
Discount Use: Yes
Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.50 har_return_gtd

Description: Management Fees Variable Repaid for

guaranteed

Help:

Modified On: 8/4/2021 3:29:14 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Cashflows
Column Header: har_return_gtd
Combine Groups By: Sum Both
Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

Yes

Rate Use:
Cash Flow
Rebase Type:
Previous
Retain Value:
Yes
Override:
Virtual:
False

5.3.1.2.51 har return jl1

Description: Management Fees Variable Repaid for joint life

(first life)

Help:

Modified On: 8/4/2021 3:29:20 PM (UTC+03:00)

Modified By: CLAL-INS\joshm
Category: Cashflows
Column Header: har_return_jl1
Combine Groups By: Sum Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Last

-1

End

Yes

Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.52 har_return_jl2

Description: Management Fees Variable Repaid for joint life

(second life)

Help:

Modified On: 8/4/2021 3:29:30 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Cashflows
Column Header: har_return_jl2
Combine Groups By: Sum Both
Combine Periods: Last

Default sliding Size:

Discount Timing:

End

Discount Use:

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.53 har return nogt

Description: Management Fees Variable Repaid for non-

guaranteed

Help:

Modified On: 8/4/2021 3:29:37 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Cashflows Column Header: har_return_nogt

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.54 mgt_var_no_bor_dth

Description: calculate management fees on side for same

results in management_fees_variable and

bor_return

Help:

Modified On: 9/25/2024 1:25:01 PM (UTC+03:00)

Modified By: CLAL-INS\arikt Category: Cashflows

Column Header: mgt_var_no_bor_dth
Combine Groups By: Sum Both
Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.55 mgt_var_no_bor_gtd

Description: calculate management fees on side for same

results in management_fees_variable and

bor_return

Help:

Modified On: 9/25/2024 12:44:13 PM (UTC+03:00)

Modified By: CLAL-INS\arikt Category: Cashflows

Column Header: mgt_var_no_bor_gtd

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

Piscount Timing:

Piscount Use:

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

Description: calculate management fees on side for same

results in management_fees_variable and

bor_return

Help:

Modified On: 9/25/2024 1:12:10 PM (UTC+03:00)

Modified By: CLAL-INS\arikt Category: Cashflows

Column Header: mgt_var_no_bor_jl1

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

Place of the periods:

Last

-1

Place of the periods:

Sum Both

Last

-1

And

Place of the periods:

Sum Both

Last

-1

On A File

Place of the periods:

Control of the period of the period

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

False

False

Description: calculate management fees on side for same

results in management_fees_variable and

bor_return

Help:

Modified On: 9/25/2024 1:22:34 PM (UTC+03:00)

Modified By: CLAL-INS\arikt Category: Cashflows

Column Header: mgt_var_no_bor_jl2

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Cash Flow
Rebase Type:

Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.58 *mgt var no bor nogt*

Description: calculate management fees on side for same

results in management_fees_variable and

bor_return

Help:

Modified On: 9/25/2024 1:00:22 PM (UTC+03:00)

Modified By: CLAL-INS\arikt Category: Cashflows

Column Header: mgt_var_no_bor_nogt

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.59 net interest rate

Description: Interest rate net of fixed management fees

Help:

Modified On: 2/26/2025 1:59:36 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Cashflows

Column Header: net_interest_rate

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.60 mgt fee fixed pv

Description: Management Fees Fixed Pv

Help:

Modified On: 8/4/2021 3:33:44 PM (UTC+03:00)

Modified By: CLAL-INS\joshm
Category: Cashflows|Income
Column Header: mgt_fee_fixed_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.61 mgt fee var pv

Description: Management Fees Variable Pv

Help:

Modified On: 8/4/2021 3:34:55 PM (UTC+03:00)

Modified By: CLAL-INS\joshm
Category: Cashflows|Income
Column Header: mgt_fee_var_pv
Combine Groups By: Sum Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Last

-1

End

Yes

Cash

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.62 investment income

Description: Investment Income

Help:

Modified On: 7/19/2024 9:45:58 AM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Cashflows|Income|Investment Income

Column Header: investment_income

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum

Sum

Fund

Yes

Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.63 investment_income_chetz

Description: Investment Income form chetz

Help:

Modified On: 7/8/2024 4:54:31 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Cashflows|Income|Investment Income

Column Header: investment_income_chetz

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.64 reserve bonus units e 0

Description: Reserve Bonus Units E 0

Help:

Modified On: 10/26/2021 10:29:53 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Income|Investment Income

Column Header: reserve_bonus_units_e_0

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.65 reserve bonus units e t

Description: Reserve Bonus Units E T

Help:

Modified On: 10/26/2021 10:29:47 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Income|Investment Income

Column Header: reserve_bonus_units_e_t

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.1.2.66 investment income chetz pv

Description: PV of investment income from chetz

Help: PV of investment income at the "discount

rate", at the beginning of the period.

The discount rate in the experience model is

the embedded value discount rate 6/19/2023 1:33:17 PM (UTC+03:00)

Modified On: 6/19/2023 1:33:17 PM (UModified By: CLAL-INS\ahuvaa

Category: Cashflows|Income|Premium Column Header: investment_income_chetz_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

0

End

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.67 investment_income_pv

Description: PV of investment income

PV of investment income at the "discount Help:

rate", at the beginning of the period.

The discount rate in the experience model is

the embedded value discount rate

Modified On: 8/9/2021 10:44:35 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Income|Premium investment income pv Column Header:

Combine Groups By: Sum Both Combine Periods: Last Default sliding Size: 0 End **Discount Timing:** Discount Use: No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.1.2.68 outgo b post ret pv

Outgo B Post Ret Pv Description:

Help:

Modified On: 8/4/2021 3:35:14 PM (UTC+03:00)

Modified By: CLAL-INS\joshm Category: Cashflows|Outgo Column Header: outgo b post ret pv

Sum Both Combine Groups By: Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End

Yes Discount Use: Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False False

5.3.1.2.69 expense investment pv

Description: Expense Investment Post Ret Pv

Help:

Virtual:

Modified On: 8/4/2021 3:27:56 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Expenses Column Header: expense_investment_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.70 expense ren perc post ret pv

Description: Expense Ren Perc Post Ret Pv

Help:

Modified On: 8/4/2021 3:28:14 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Expenses
Column Header: expense_ren_perc_post_ret_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

Last

Flow

Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.71 expense investment post ret

Description: Investment expenses post retirement

Help:

Modified On: 4/4/2023 9:51:22 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Cashflows|Outgo|Expenses|Renewal

Column Header: expense_investment_post_ret

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Sum

-1

Discount Timing: Beginning

Discount Use: Yes
Rate Use: Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.72 expense_ren_perc_post_ret

Description: Variable renewal expenses post retirement

Help:

Modified On: 9/18/2022 8:51:05 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Cashflows|Outgo|Expenses|Renewal

Column Header: expense_ren_perc_post_ret

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum

-1

Discount Timing:

Discount Use:

Beginning

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.1.2.73 reserve_increase

Description: Increase in total reserve

Help:

Modified On: 8/9/2021 10:47:01 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Reserve Increase

Column Header: reserve_increase
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.74 sel_death_rate_1

Description: Select death rate

Help:

Modified On: 7/29/2024 2:10:48 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Cashflows|Outgo|Reserve Increase

Column Header: sel_death_rate_1

Combine Groups By: Sum Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum
-1

Pind
Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.75 sel_death_rate_2

Description: Select death rate

Help:

Modified On: 7/29/2024 2:10:48 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Cashflows|Outgo|Reserve Increase

Column Header: sel_death_rate_2

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.76 profit book pv

Description: Profit Book Pv

Help:

Modified On: 8/4/2021 3:35:51 PM (UTC+03:00)

Modified By:
Category:
Cashflows|Profit
Column Header:
Combine Groups By:
Combine Poriods:
Cashflows|Profit
profit_book_pv
Sum Both

Combine Periods:

Default sliding Size:

Discount Timing:

End

Discount Use:

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.1.2.77 profit_book_vif_post_ret

Description: Before Tax Profit (cashflow basis for MCEV)

without DAC (VIF Profit) after retirement

Help: After Tax Profit (cashflow basis for MCEV)

without DAC (VIF Profit)

Modified On: 7/19/2024 9:43:00 AM (UTC+03:00)

Modified By: CLAL-INS\arikt Category: Cashflows|Profit

Column Header: profit_book_vif_post_ret

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.78 profit_net_vif_post_ret_pv

Description: Profit Net Vif Post Ret Pv

Help:

Modified On: 8/28/2022 4:41:50 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa Category: Cashflows|Profit

Column Header: profit_net_vif_post_ret_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

Find

Yes

Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.79 surv gteed

Description: Propn gteed surv'ng at end t

Help: Probability of annuity with greed term surviving

from outset.

Modified On: 8/4/2021 3:40:48 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Decrements|Death|Joint Life

Column Header: surv gteed

Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.80 surv_jl_lastsurv

Description: Propn JL last surv'ng at end t

Help: Probability of joint life last survivor surviving

from outset.

Modified On: 8/9/2021 10:47:20 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Decrements|Death|Joint Life

Column Header: surv_jl_lastsurv
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.81 surv_per_gteed

Description: Marginal propn gteed surviving at end t

Help: Probability of annuity with gteed term surviving

from outset.

Modified On: 8/4/2021 3:41:23 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Decrements|Death|Joint Life

Column Header: surv_per_gteed
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes

Override: False Virtual: False

5.3.1.2.82 death_rate_1

Description: monthly death rate for life 1

Help: Annual mortality rate for life 1 adjusted for

selection, sex, smoking status and mortality

improvement.

Modified On: 7/22/2024 12:14:22 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Decrements|Death|Life 1

Column Header: death_rate_1
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

Middle

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.83 death_rate_res_1

Description: monthly death rate for life 1 for reserve
Help: Annual mortality rate for life 1 adjusted for

selection, sex, smoking status and mortality

improvement.

Modified On: 7/22/2024 12:12:27 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Decrements|Death|Life 1

Column Header: death_rate_res_1
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

Middle

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.84 surv_1

Description: Propn life 1's surv'ng at end time t

Help: Proportion of life 1 surviving from outset. This is

based on the death rate for life 1, and is

adjusted.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Decrements|Death|Life 1

Column Header: surv_1
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.85 surv_1_res

Description: Propn life 1's surv'ng at end time t for reserve

Help: Proportion of life 1 surviving from outset. This is

based on the death rate for life 1, and is

adjusted.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Decrements|Death|Life 1

Column Header: surv_1_res
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.86 surv_per_1

Description: Prob of life 1 surv'n for period

Help: Probability of survival of period for life 1. Uses

adjusted survival of life 1 (surv_1).

Modified On: 8/9/2021 10:47:27 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Decrements|Death|Life 1

Column Header: surv_per_1
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.87 death_rate_2

Description: monthly death rate for life 2

Help: Annual mortality for life 2 adjusted for

selection, sex, smoking status and mortality

improvement.

Modified On: 7/23/2024 3:44:21 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Decrements|Death|Life 2

Column Header: death_rate_2
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

Middle

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.88 death_rate_2_b3

Description: monthly death rate for life 2 - B3 mortality
Help: Annual mortality for life 2 adjusted for

Annual mortality for life 2 adjusted for selection, sex, smoking status and mortality

improvement.

Modified On: 1/11/2023 11:28:55 AM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa
Category: Decrements|Death|Life 2

Column Header: death_rate_2_b3
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes

Override: False Virtual: False

5.3.1.2.89 death_rate_res_2

Description: monthly death rate for life 2 for reserve
Help: Annual mortality for life 2 adjusted for

selection, sex, smoking status and mortality

improvement.

Modified On: 7/23/2024 3:45:08 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Decrements|Death|Life 2
Column Header: death_rate_res_2
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Middle

Discount Use:

No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.1.2.90 death_rate_res_2_b3

Description: monthly death rate for life 2 for reserve - B3

mortality

Help: Annual mortality for life 2 adjusted for

selection, sex, smoking status and mortality

improvement.

Modified On: 1/11/2023 11:29:18 AM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa
Category: Decrements|Death|Life 2
Column Header: death_rate_res_3_b3

Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

Middle

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.91 surv 2

Description: Propn life 2's surv'ng at end t

Help: Proportion of life 2's survivng from outset.

Only calculated when joint life status is set to

"Joint Life".

Modified On: 8/4/2021 3:40:10 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Decrements|Death|Life 2

Column Header: surv_2

Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

End

Discount Use:

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.92 surv 2 joint life

Description: Propn life 2's receiving joint life payment at end

t

Help: Proportion of life 2's survivng from outset.

Only calculated when joint life status is set to

"Joint Life".

Modified On: 8/4/2021 3:40:22 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Decrements|Death|Life 2

Column Header: surv_2_joint_life
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.93 surv_2_joint_life_res

Description: Propn life 2's receiving joint life payment at end

t - reserving mortality

Help: Proportion of life 2's survivng from outset.

Only calculated when joint life status is set to

"Joint Life".

Modified On: 8/4/2021 3:40:33 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Decrements|Death|Life 2
Column Header: surv_2_joint_life_res

Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.1.2.94 surv 2 res

Description: Propn life 2's surv'ng at end t - reserving

mortality

Help: Proportion of life 2's survivng from outset.

Only calculated when joint life status is set to

"Joint Life".

Modified On: 8/4/2021 3:40:44 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Decrements|Death|Life 2

Column Header: surv_2_res
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.95 surv_per_2

Description: Prob of life 2 surv'ng for period

Help: Probability of survival of period for life 2. Modified On: 8/9/2021 10:47:34 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Decrements|Death|Life 2

Column Header: surv_per_2
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

No

Rate Use: Cash Flow Rebase Type: Current Yes Override: False Virtual: False

5.3.1.2.96 dth ben if b

Description: death benefit inforce in the begining of the

month

Help:

Modified On: 8/9/2021 10:43:20 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Embedded Value|Outgo|Claims

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Combine Periods:

Last

-1

End

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

False

False

5.3.1.2.97 dth_ben_if_b_final

Description: death benefit inforce in the begining of the

month

Help:

Modified On: 5/16/2023 2:43:19 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Embedded Value|Outgo|Claims

Column Header: dth_ben_if_b_final

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False

Virtual: False

5.3.1.2.98 pmt_total

Description: Total payments in force in the begining of the

month

Help:

Modified On: 5/16/2023 2:19:13 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Embedded Value|Outgo|Claims

Column Header: pmt total Sum Both Combine Groups By: Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Yes Discount Use: Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes False Override: False Virtual:

Description: Total payments in force in the begining of the

month, excluding guaranteed payments.

Help:

Modified On: 5/16/2023 2:24:41 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Embedded Value|Outgo|Claims

Column Header: pmt_total_nogt Combine Groups By: Sum Both Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Yes Discount Use: Rate Use: Cash Flow Previous Rebase Type: Retain Value: Yes Override: False False

Virtual:

5.3.1.2.100 int_cred_dth

Description: Interest credited to death benefits

Help:

Modified On: 2/26/2025 1:59:45 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Embedded Value|Outgo|Claims|Guaranteed

Claims

Column Header: int_cred_dth Combine Groups By: Sum Both Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Discount Use: Yes Cash Flow Rate Use: Previous Rebase Type: Retain Value: Yes Override: False

5.3.1.2.101 int_cred_gteed

Description: Interest credited to guaranteed annuities

Help:

Virtual:

Modified On: 2/26/2025 1:59:20 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Embedded Value|Outgo|Claims|Guaranteed

Claims

False

Column Header: int cred gteed Combine Groups By: Sum Both Combine Periods: Last Default sliding Size: -1 End **Discount Timing:** Yes Discount Use: Cash Flow Rate Use: Rebase Type: Previous

Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.102 int_cred_jl1

Description: Interest credited to joint-life annuities (first life)

Help:

Modified On: 2/26/2025 1:59:31 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Embedded Value|Outgo|Claims|Guaranteed

Claims

Column Header: int_cred_jl1
Combine Groups By: Sum Both
Combine Periods: Last

Default sliding Size:

Discount Timing:

End
Discount Use:

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.103 int cred jl2

Description: Interest credited to joint-life annuities (first life)

Help:

Modified On: 2/26/2025 1:59:40 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Embedded Value|Outgo|Claims|Guaranteed

Claims

Column Header: int_cred_jl2
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.104 int_cred_no_gteed

Description: Interest credited to non-guaranteed annuities

Help:

Modified On: 2/26/2025 1:59:25 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Embedded Value|Outgo|Claims|Guaranteed

Claims

Column Header: int_cred_no_gteed

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

Yes

Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.105 mgt_fee_fixed_dth

Description: Fixed management fees for death benefits

Help:

Modified On: 8/30/2021 8:43:56 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Embedded Value|Outgo|Claims|Guaranteed

Claims

Column Header: mgt_fee_fixed_dth

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

End

Yes

Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.106 mgt_fee_fixed_gtd

Description: Fixed management fees for guaranteed

annuities

Help:

Modified On: 8/30/2021 8:43:32 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Embedded Value|Outgo|Claims|Guaranteed

Claims

Column Header: mgt_fee_fixed_gtd

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Peter Lieu:

Comb Flow

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.1.2.107 mgt_fee_fixed_jl1

Description: Fixed management fees for joint-life annuities

(first life)

Help:

Modified On: 8/4/2021 3:33:23 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Embedded Value|Outgo|Claims|Guaranteed

Claims

Column Header: mgt_fee_fixed_jl1

Combine Groups By: Sum Both Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Discount Use: Yes Cash Flow Rate Use: Rebase Type: Previous Retain Value: Yes Override: False

5.3.1.2.108 mgt_fee_fixed_jl2

Description: Fixed management fees for joint-life annuities

(first life)

False

Help:

Virtual:

Modified On: 8/4/2021 3:33:27 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Embedded Value|Outgo|Claims|Guaranteed

Claims

Column Header: mgt_fee_fixed_jl2

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Cash Flow Rebase Type:

Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.109 mgt_fee_fixed_nogt

Description: Fixed management fees for non-guaranteed

annuities

Help:

Modified On: 8/4/2021 3:33:31 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Embedded Value|Outgo|Claims|Guaranteed

Claims

Column Header: mgt_fee_fixed_nogt

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Sum Both

Last

-1

End

Discount Use: Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.1.2.110 mgt_fee_var_dth

Description: Variable management fees for death benefits

Help:

Modified On: 9/25/2024 1:25:20 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Embedded Value|Outgo|Claims|Guaranteed

Claims

Column Header: mgt_fee_var_dth

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Cash Flow Rebase Type:

Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.111 mgt_fee_var_gtd

Description: Variable management fees for guaranteed

annuities

Help:

Modified On: 9/25/2024 1:14:05 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Embedded Value|Outgo|Claims|Guaranteed

Claims

Column Header: mgt_fee_var_gtd

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

Last

Find

Combine Periods:

Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.112 mgt_fee_var_jl1

Description: Variable management fees for joint-life

annuities (first life)

Help:

Modified On: 9/25/2024 1:13:09 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Embedded Value|Outgo|Claims|Guaranteed

Claims

Column Header: mgt_fee_var_jl1
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End

Discount Use: Yes
Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.113 mgt_fee_var_jl2

Description: Variable management fees for joint-life

annuities (second life)

Help:

Modified On: 9/25/2024 1:23:13 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Embedded Value|Outgo|Claims|Guaranteed

Claims

Column Header: mgt_fee_var_jl2
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End

Discount Use:

Rate Use:

Cash Flow
Rebase Type:

Previous
Retain Value:

Override:

Virtual:

Yes

Cash Flow
Previous
False
False

5.3.1.2.114 mgt_fee_var_nogt

Description: Variable management fees for non-guaranteed

annuities

Help:

Modified On: 9/25/2024 1:02:21 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Embedded Value|Outgo|Claims|Guaranteed

Claims

Column Header: mgt_fee_var_nogt

Combine Groups By: Sum Both Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Discount Use: Yes Cash Flow Rate Use: Previous Rebase Type: Retain Value: Yes Override: False False Virtual:

5.3.1.2.115 tarif_deduction_dth

Description: Pricing rate deduction for death benefits

Help:

Modified On: 8/24/2021 4:51:46 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Embedded Value|Outgo|Claims|Guaranteed

Claims

Column Header: tarif_deduction_dth

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Rebase Type:

Sum Both

Last

-1

Find

Yes

Cash Flow

Previous

Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.116 tarif_deduction_gteed

Description: Pricing rate deduction for guaranteed annuities

Help:

Modified On: 8/4/2021 3:42:34 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Embedded Value|Outgo|Claims|Guaranteed

Claims

Column Header: tarif_deduction_gteed

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.117 tarif deduction jl1

Description: Pricing rate deduction for joint-life annuities

(first life)

Help:

Modified On: 8/4/2021 3:42:32 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Embedded Value|Outgo|Claims|Guaranteed

Claims

Column Header: tarif_deduction_jl1

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.118 tarif_deduction_jl2

Description: Pricing rate deduction for joint-life annuities

(first life)

Help:

Modified On: 8/4/2021 3:42:29 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Embedded Value|Outgo|Claims|Guaranteed

Claims

Column Header: tarif_deduction_jl2

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

Yes

Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.119 tarif deduction no gteed

Description: Pricing rate deduction for non-guaranteed

annuities

Help:

Modified On: 8/4/2021 3:42:27 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Embedded Value|Outgo|Claims|Guaranteed

Claims

Column Header: tarif_deduction_no_gteed

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

End

Yes

Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.120 ann_pay_gteed_if

Description: guaranteed Ann payments to life 1

Help: guaranteed annuity payments inforce in the

begining of the month for life 1.

Modified On: 8/9/2021 10:38:32 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Embedded Value|Outgo|Claims|Life 1 Claims

Column Header: ann pay gteed if

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.121 ann_pay_gteed_if_final

Description: guaranteed Ann payments to life 1

Help: guaranteed annuity payments inforce in the

begining of the month for life 1.

Modified On: 5/16/2023 1:51:37 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Embedded Value|Outgo|Claims|Life 1 Claims

Column Header: ann_pay_gteed_if_final

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.122 ann_pay_jl_if_1

Description: joint life last survivor Ann payments inforce in

the begining of the month - main life

Help: guaranteed annuity payments inforce in the

begining of the month for life 1.

Modified On: 8/9/2021 10:38:39 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Embedded Value|Outgo|Claims|Life 1 Claims

Column Header: ann_pay_jl_if_1
Combine Groups By: Sum Both
Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.123 ann_pay_jl_if_1_final

Description: joint life last survivor Ann payments inforce in

the begining of the month - main life

Help: guaranteed annuity payments inforce in the

begining of the month for life 1.

Modified On: 5/16/2023 1:52:08 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Embedded Value|Outgo|Claims|Life 1 Claims

Column Header: ann_pay_jl_if_1_final

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.124 ann_pay_jl_if_2

Description: joint life last survivor Ann payments inforce in

the begining of the month - secondary life

Help: guaranteed annuity payments inforce in the begining of the month for life 1.

8/9/2021 10:38:46 AM (UTC+03:00)

Modified On: 8/9/2021 10:38:46 AM

Modified By: CLAL-INS\joshm

Category: Embedded Value|Outgo|Claims|Life 1 Claims

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Ann_pay_jl_if_2

Sum Both

Last

-1

End

Yes

Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.125 ann_pay_jl_if_2_final

Description: joint life last survivor Ann payments inforce in

the begining of the month - secondary life guaranteed annuity payments inforce in the

Help: guaranteed annuity payments inforce in the

begining of the month for life 1.

Modified On: 5/16/2023 1:53:14 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Embedded Value|Outgo|Claims|Life 1 Claims

Column Header: ann_pay_jl_if_2_final

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

Place Use:

Cook Flow

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.126 ann_pay_no_gteed

Description: Ann payments to life 1 in force in the begining

of the month

Help: Annuity payments due to life 1, whether in

premium paying or paid up status.

Modified On: 8/9/2021 10:38:56 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Embedded Value|Outgo|Claims|Life 2 Claims

Column Header: ann_pay_no_gteed

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

Piscount Timing:

Piscount Use:

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.127 ann_pay_no_gteed_final

Description: Ann payments to life 1 in force in the begining

of the month

Help: Annuity payments due to life 1, whether in

premium paying or paid up status.

Modified On: 5/16/2023 1:40:27 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Embedded Value|Outgo|Claims|Life 2 Claims

Column Header: ann_pay_no_gteed_final

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

Place Ind

Combine Periods:

Last

-1

Combine Periods:

Combine Periods:

Last

-1

Combine Periods:

Combine Per

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

Yes

False

5.3.1.2.128 death rates row 1

Description: Death Rates Row 1

Help:

Modified On: 8/12/2021 2:55:10 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Mortality

Column Header: death_rates_row_1
Combine Groups By: Average Both

Combine Periods: Last -1 Default sliding Size: **Discount Timing:** End Discount Use: Yes Cash Flow Rate Use: Rebase Type: Previous Retain Value: Yes Override: False False Virtual:

5.3.1.2.129 death_rates_row_2

Description: Death Rates Row 2

Help:

Modified On: 8/12/2021 2:55:16 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Mortality

Column Header: death_rates_row_2
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Cash Flow

Perevious

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.130 units for takeup

Description: Units For Takeup

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Policy Details|Annuity
Column Header: units_for_takeup

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Pate Mee:

Combine Periods:

Last

-1

End

Proceeding Flow

Combine Periods:

Sum Both

Last

-1

Combine Periods:

Combine Periods:

Sum Both

Combine Periods:

Combine

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False

Virtual: False

5.3.1.2.131 age_pol_1

Description: Age last by policy year for life 1

Help: Age last by policy year for life 1 at start of

period t.

Modified On: 8/4/2021 2:44:38 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Policy Details | Details Life 1 Category:

Column Header: age pol 1 Combine Groups By: Average Both

Combine Periods: Last Default sliding Size: -1

Discount Timing: Beginning Discount Use: No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes False Override: False Virtual:

5.3.1.2.132 age pol 2

Description: Age last by policy year for life 2

Help: Age last by policy year for life 2 at start of

period t.

Modified On: 8/4/2021 2:44:48 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Policy Details | Details Life 2

Column Header: age_pol_2 Combine Groups By: Average Both

Combine Periods: Last Default sliding Size: -1

Discount Timing: Beginning

Discount Use: No

Rate Use: Cash Flow Current Rebase Type: Retain Value: Yes Override: False Virtual: False

5.3.1.2.133 profit_book_vif_post_ret_pv

Description: PV of Book Profit (end of month) VIF basis

Help:

8/9/2021 10:45:47 AM (UTC+03:00) Modified On:

Modified By: CLAL-INS\joshm Category: Profitability Measures
Column Header: profit_book_vif_post_ret_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Last

-1

Discount Timing: Beginning
Discount Use: No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.1.2.134 reserve increase pv

Description: Reserve Increase Pv

Help:

Modified On: 8/4/2021 3:38:55 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Reserve

Column Header: reserve_increase_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

Piscount Timing:

Find

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.1.2.135 startup

Description: Startup

Help: This column is always called first when running

a projection.

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt Category: Setup|Initialise

Column Header: startup

Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

No

Rate Use: Cash Flow Rebase Type: Previous

Retain Value: Yes
Override: False
Virtual: False

5.3.1.3 External Functions

5.3.1.3.1 initialise_variables

Description: Initialise Variables

Help:

Modified On: 11/13/2024 10:50:55 PM (UTC+02:00)

Modified By: CLAL-INS\arikt

Category:

5.3.1.3.2 set_work_variables

Description: Set Working variables

Help: Variables that are calculated within MoSes. Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt Category: Setup|Initialise

5.3.1.4 Temporary Tables

5.3.1.4.1 qx_final_res

Description: final qx tab for reserves

Help:

Modified On: 7/26/2021 3:06:55 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category:

Number of Rows: 130
Number of Columns: 4
Calculation Methods: Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.1.4.2 res cx ann

Description: Reserve Commutation Cx

Help:

Modified On: 8/15/2021 3:46:28 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Balance Sheet|Reserves|Basic Reserve

Number of Rows:125Number of Columns:1Calculation Methods:Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.1.4.3 res dx ann

Description: Reserve Commutation Dx

Help:

Modified On: 8/15/2021 3:49:15 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Balance Sheet|Reserves|Basic Reserve

Number of Rows:125Number of Columns:3Calculation Methods:Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.1.4.4 res lx ann

Description: Reserve Commutation Ix

Help:

Modified On: 1/11/2023 11:29:27 AM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Balance Sheet|Reserves|Basic Reserve

Number of Rows: 125
Number of Columns: 3
Calculation Methods: Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.1.4.5 res_mx_ann

Description: Reserve Commutation Mx

Help:

Modified On: 8/15/2021 3:46:55 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Balance Sheet|Reserves|Basic Reserve

Number of Rows: 125
Number of Columns: 1
Calculation Methods: Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.1.4.6 res nx ann

Description: Reserve Commutation Nx

Help:

Modified On: 8/15/2021 3:46:36 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Balance Sheet|Reserves|Basic Reserve

Number of Rows: 125
Number of Columns: 3
Calculation Methods: Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.1.4.7 res_vx_ann

Description: Reserve Interest vx

Help:

Modified On: 6/15/2021 12:02:43 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Balance Sheet|Reserves|Basic Reserve

Number of Rows: 131
Number of Columns: 3
Calculation Methods: Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.1.5 Scalars

5.3.1.5.1 ann_pmt_curr

Description: current payment of not guaranteed anniuty.

Help:

Modified On: 7/22/2021 4:20:50 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category:

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.1.5.2 ann pmt curr gteed

Description: current payment of guaranteed anniuty.

Help:

Modified On: 10/3/2021 1:49:09 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category:

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.1.5.3 ann_pmt_curr_jl

Description: current payment of jointlife anniuty.

Help:

Modified On: 7/22/2021 4:21:53 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category:

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.1.5.4 antisel_weight

Description: antisel weight

Help:

Modified On: 5/16/2023 2:25:17 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category:

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.1.5.5 antisel_weight_res

Description: antisel_weight

Help:

Modified On: 5/16/2023 2:25:19 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category:

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.1.5.6 fund type

Description: Fund Type

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Rebase: N/A
Type: Character
Override: False

Virtual: False

5.3.1.5.7 mgt_fixed_max_mth

Description: maximum monthly fixed mgt fee rate.

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.1.5.8 mgt_fixed_mth

Description: monthly fixed mgt fee rate.

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.1.5.9 rate_tarif_mth

Description: monthly tarif rate.

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.1.5.10 sexcode 1

Description: Code for sex of insured 1. 0=Male, 1=Female

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Rebase: N/A
Type: Integer
Override: False
Virtual: False

5.3.1.5.11 sexcode_2

Description: Code for sex of insured 2. 0=Male, 1=Female

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Rebase: N/A
Type: Integer
Override: False
Virtual: False

5.3.1.5.12 annuity pmt curr tot

Description: Total current annuity payment

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Annuity
Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.1.5.13 ann_ratio_res

Description: Reserve Annuity ratio at retirement. Reserve

Factors vs Policy Factors

Help:

Modified On: 5/22/2023 1:18:41 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa
Category: Balance Sheet|Reserves

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.1.5.14 antisel ppn

Description: Old money prop. for anti select in annuity

payment

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Annuity Deficiency

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.1.5.15 antisel ppn res

Description: Old money prop. for anti select in annuity

payment

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Annuity Deficiency

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.1.5.16 no_antisel_at_ann

Description: Annuity money not receiving anti-selection

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Annuity Deficiency

Rebase: N/A
Type: Double

Override: False Virtual: False

5.3.1.5.17 no_antisel_at_ann_for_res

Description: Annuity money not receiving anti-selection (for

reserve calc)

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Annuity Deficiency

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.1.5.18 init_bor_har

Description: Initial bor/har passed to annuity

Help:

Modified On: 7/4/2024 3:36:22 PM (UTC+03:00)

Modified By: CLAL-INS\arikt Category: Cashflows Rebase: N/A
Type: Double

Override: False Virtual: False

5.3.1.5.19 retirement_prop

Description: Retirement Prop

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Economic assumptions

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.1.5.20 temp_fund_scalar

Description: Temp Fund

Help:

Modified On: 11/18/2020 4:47:42 PM (UTC+02:00)

Modified By: CLAL-INS\NinaB
Category: Economic assumptions

Rebase: N/A
Type: Character
Override: False
Virtual: False

5.3.1.5.21 initial_annuity_purchase

Description: initial sum for annuity purchase

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt
Category: Policy Details|Annuity

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.2 fund_cflow

Description:

Help:

Base Model Class: none Model References All

Read File: Before Start Up

Modified On: 4/27/2023 9:57:35 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

5.3.2.1 Variables

5.3.2.1.1 prem freq

Description: Premium frequency

Help: Frequency of premium payment:

1 - Annually2 - Half-Yearly4 - Quarterly12 - Monthly

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Embedded Value|Income|Premium

Variable Type: Integer Number

Default Value: 12
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 1
Valid Range To: 12

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.2.1.2 surr chg perc units

Description: Surrender charges (% units) for basic savings
Help: Surrender charges as a % of units for each

policy month.

Modified On: 6/27/2022 5:15:18 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Embedded Value|Outgo|Claims|Surrender

Claims

Variable Type: Floating Point Array

Default Value: 0
Length: 1400
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.2.1.3 comm perc res

Description: Commissions as % of reserves

Help: Commissions as a % of reserves held. Loaded

from table.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Embedded Value|Outgo|Commission

Variable Type: Floating Point Array

Default Value: 0.5
Length: 116
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.2.1.4 comm_regular_pc

Description: Annual regualr commission (%)

Help: Annual regular comm %.

Read from table in set_comm_variables().

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Embedded Value|Outgo|Commission

Variable Type: Floating Point Array

Default Value: 0 10
Length: 116
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.2.1.5 comm_ren_perc_prem

Description: Renewal commission (%)

Help: Renewal commission expressed as a % of

premium income.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Embedded Value|Outgo|Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 116
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.2.1.6 comm_renewal_year

Description: First year from when renewal commission is

paid

Help: policy year from when renewal commission is

paid.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Embedded Value|Outgo|Commission

Variable Type: Integer Number

Default Value: 1
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 1
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.2.1.7 unit_value_if

Description: Unit balance at valn date

Help: Nominal amount before allowing for actuarial

funding.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Embedded Value|Reserves|Unit Reserves

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable
Valid Range From: -9999999
Valid Range To: 99999999

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.2.1.8 commence_period_w

Description: Period t in which policy commences

Help: Calculated in startup column.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Policy Details
Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.2.1.9 elapsed months

Description: Elapsed months at valn date

Help: The number of months, rounded up, from policy

inception to the valuation date.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Policy Details
Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1200

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.2.1.10 maturity_period_w

Description: Period t in which policy matures Help: Calculated in startup column.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Policy Details
Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.2.1.11 paid_up

Description: Paid up at valuation date?

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Policy Details
Variable Type: Character

Default Value:

Length:

Number of Decimals:

Choice List:

N,Y

Character Type:

Valid Panga From:

O

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.2.1.12 par_nonpar

Description: Participating or Non-Participating?

Help: P = Participating business (i.e. with-profit)

N = Non participating business (i.e. non-profit)

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details|Bonus

Variable Type: Character

Default Value:

Length:

Number of Decimals:

Choice List:

Character Type:

P

1

P

1

Number of Decimals:

P,N

Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.2.1.13 benefits_curr

Description: Number of covers at valuation date Help:

Current number of in force benefits at the

valuation date.

8/27/2019 4:00:59 PM (UTC+03:00) Modified On:

Modified By: CLAL-INS\ninab

Category: Policy Details|Policies & Benefits

Variable Type: Floating Point Number

Default Value: 1 0 Length: 0 Number of Decimals:

Choice List:

Character Type: Not Applicable

Valid Range From: 0

1000000 Valid Range To:

Table Format: **Default Row Numbers**

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.2.1.14 policies curr

Description: Number of policies inforce at valn date Help:

Current number of in force policies at the

valuation date.

8/27/2019 4:00:59 PM (UTC+03:00) Modified On:

Modified By: CLAL-INS\ninab

Policy Details|Policies & Benefits Category:

Variable Type: Floating Point Number

Default Value: 1 Length: 0 Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To: 1000000

Default Row Numbers Table Format:

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order:

5.3.2.1.15 decrements apply

Description: Apply decrements?

Help: Do you want in force columns decremented by

survivorship?

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

CLAL-INS\ninab Modified By:

Category: Setup|Options
Variable Type: Character

Default Value:

Length:

Number of Decimals:

Choice List:

Character Type:

Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.2.1.16 projection type

Description: Projection type

Help: Purpose of the projection run:

Valn = perform a valuation for an in force policy New Bus = used to project future new business

layers

Pricing = project one new business policy

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By:
Category:
Setup|Values
Variable Type:
Character
Default Value:
Pricing
Length:
7
Number of Decimals:
OLAL-INS\ninab
Setup|Values
Character
Pricing
7

Choice List: Valn,New_Bus,Pricing

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.2.1.17 unit_type

Modified On:

Description: Unit type

Help: Init_prem = Initial unit premium paying policy

Accum_prem = Accumulation unit premium

paying policy

Init_pup = Initial unit paid up policy

Accum_pup = Accumulation unit paid up policy

8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Unit Fund

Variable Type: Character
Default Value: Accum_prem

Length: 10 Number of Decimals: 0

Choice List: Accum_prem,Accum_pup,Saving_pup

Character Type: Standard

Valid Range From: 1
Valid Range To: 2

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.2.1.18 alloc rate

Description: Percentage of Premium allocated to units
Help: Percentage of premium allocated to units.

Percentage of premium allocated to units.
Each element in the array applies for the

number of months specified in the

alloc_rate_period array. The first element in the

array should be entered for period 1.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Unit Fund|Charges
Variable Type: Floating Point Array

Default Value: 0 100
Length: 16
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 150

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.2.1.19 alloc rate period

Description: Months applying to alloc rate

Help: Each element in this array relates to a

corresponding element in the alloc_rate array. The elements in this array specify the number of months for which the allocation rates in alloc_rate apply. The first element in the array

should be entered for period 1.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Unit Fund|Charges

Variable Type: Floating Point Array

Default Value: 6 12
Length: 16
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 600

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.2.1.20 mgt fee fixed

Description: Fixed Management fee %

Help: Management fee as an annual percentage of

the unit value. Loaded from table.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Unit Fund|Fees

Variable Type: Floating Point Number

Default Value: 1.3
Length: 0
Number of Decimals: 4

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.2.1.21 mgt_fee_variable

Description: variable management fee proportion (%)

Help: Only for used for Adif.

Percentage of investment return taken as management fee, in addition to fixed

management fee which is a percentage of units.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Unit Fund|Fees

Variable Type: Floating Point Number

Default Value: 15
Length: 0
Number of Decimals: 4

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.2.2 Columns

5.3.2.2.1 decrement_rate

Description: Total marginal decrement rate from units

Help:

Modified On: 1/11/2023 6:45:46 PM (UTC+02:00)

Modified By:

Category:

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

CLAL-INS\joshm

Decrements

decrement_rate

Sum Both

Last

-1

End

Discount Use: Yes
Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.2.2.2 lapse rate bal

Description: lapse rate - on balance exposure

Help:

Modified On: 1/11/2023 6:46:39 PM (UTC+02:00)

Modified By: CLAL-INS\joshm
Category: Decrements|Lapse
Column Header: lapse_rate_bal
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False

Virtual: False

5.3.2.2.3 premium

Description: premium (excluding policy fee)

Help:

Modified On: 7/20/2021 5:19:38 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Embedded Value|Income|Premium

Column Header: premium
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1

Discount Timing:

Discount Use:

Rate Use:

Rebase Type:

Retain Value:

Override:

Beginning

Yes

Cash Flow

Previous

Yes

False

5.3.2.2.4 death claims units

Description: Death claims on units

Help:

Virtual:

Modified On: 8/12/2021 1:14:03 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Embedded Value|Outgo|Claims|Death Claims

False

Column Header: death_claims_units

Combine Groups By: Sum Both Combine Periods: Last Default sliding Size: -1 End **Discount Timing:** Discount Use: Yes Rate Use: Cash Flow **Previous** Rebase Type: Retain Value: Yes Override: False Virtual: False

5.3.2.2.5 claims_surrender

Description: Surrender claims at middle of period

Help:

Modified On: 1/11/2023 7:36:19 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Embedded Value|Outgo|Claims|Surrender

Claims

Column Header: claims_surrender

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

Middle

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.2.2.6 surr_charge

Description: Surrender charge received in period

Help:

Modified On: 1/11/2023 8:13:16 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Embedded Value|Outgo|Claims|Surrender

Claims

Column Header: surr_charge
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.2.2.7 surr_penalty_e_bef

Description: Surrender penalty inforce, end of period

Help:

Modified On: 10/20/2021 1:28:28 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Embedded Value|Outgo|Claims|Surrender

Claims

Column Header: surr_penalty_e_bef

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

Rate Use: Cash Flow Rebase Type: Current

Retain Value: Yes
Override: False
Virtual: False

5.3.2.2.8 surr_value

Description: Surrender value inforce EOM

Help:

Modified On: 11/17/2022 4:52:43 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Embedded Value|Outgo|Claims|Surrender

Claims

Column Header: surr_value
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.2.2.9 comm_regular

Description: Regular commission

Help:

Modified On: 8/9/2021 10:35:23 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Embedded Value|Outgo|Commission

Column Header: comm_regular
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1

Discount Timing:

Discount Use:

Yes

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.2.2.10 comm_renewal

Description: Renewal commission

Help:

Modified On: 8/9/2021 10:35:30 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Embedded Value|Outgo|Commission

Column Header: comm_renewal
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1

Discount Timing: Beginning
Discount Use: Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.2.2.11 comm reserve

Description: commissions on reserve in the peri

Help:

Modified On: 11/14/2024 4:58:23 PM (UTC+02:00)

Modified By: CLAL-INS\arikt

Category: Embedded Value|Outgo|Commission

Column Header: comm_reserve
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1

Discount Timing:

Discount Use:

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Beginning

Yes

Cash Flow

Previous

Yes

False

5.3.2.2.12 int cred units e

Description: Interest credited to units

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Embedded Value|Reserves|Unit Reserves

Column Header: int_cred_units_e
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use: Cash Flow Rebase Type: Previous

Retain Value: Yes
Override: False
Virtual: False

5.3.2.2.13 pol_year

Description: Policy year

Help:

Modified On: 7/20/2021 5:18:37 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Timing
Column Header: pol_year
Combine Groups By: Average Both

Combine Periods: Last Default sliding Size: -1

Discount Timing: Beginning

Discount Use: No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.2.2.14 units_b

Description: Unit account after allocation (beg)

Help:

Modified On: 6/2/2022 9:29:28 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category:

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Unit Fund

units_b

Sum Both

Last

-1

Discount Timing: Beginning
Discount Use: No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.2.2.15 units_b_bef

Description: Unit account before allocation (beg)

Help:

Modified On: 1/11/2023 8:14:44 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category:

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Unit Fund

units_b_bef

Sum Both

Last

-1

Discount Timing: Beginning
Discount Use: No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.2.2.16 units b bef pup

Description: Unit value for new PUPs

Help:

Modified On: 8/9/2021 10:37:15 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Unit Fund

Column Header: units_b_bef_pup

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.2.2.17 units e

Description: Unit account EOM after claims

Help: Unit account EOM after interest, mgmt fees and

claims

Modified On: 1/11/2023 6:45:46 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category:

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Unit Fund

units_e

Sum Both

Last

-1

Discount Find

No

Rate Use: Cash Flow

Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.2.2.18 units_e_bef

Description: Unit account EOM after int before clms

Help: Unit account EOM after interest and mgmt fees

but before claims

Modified On: 8/9/2021 10:37:21 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category:

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Unit Fund

units_e_bef

Sum Both

Last

-1

Discount Find

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.2.2.19 alloc units

Description: Premium allocation to units

Help:

Modified On: 8/9/2021 10:34:59 AM (UTC+03:00)

Modified By: CLAL-INS\joshm
Category: Unit Fund|Charges

Column Header: alloc_units
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1

Discount Timing:

Discount Use:

Rate Use:

Rebase Type:

Retain Value:

Override:

Ves

False

Virtual:

Beginning

Yes

Cash Flow

Previous

Yes

False

5.3.2.2.20 allocation rate

Description: Allocation rate

Help:

Modified On: 8/9/2021 10:35:07 AM (UTC+03:00)

Modified By: CLAL-INS\joshm Unit Fund|Charges Category: Column Header: allocation rate Combine Groups By: Sum Both Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Discount Use: No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.2.2.21 cover charge

Description: Life cover charge (beg)

Help:

Modified On: 8/9/2021 10:35:42 AM (UTC+03:00)

Modified By:

Category:

Column Header:

Combine Groups By:

Combine Periods:

CLAL-INS\joshm

Unit Fund|Charges

cover_charge

Sum Both

Last

Default sliding Size: -1

Discount Timing:

Discount Use:

Beginning

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.2.2.22 int rate net cumm

Description: Cummulative interest rate for year

Help:

Modified On: 12/17/2019 11:36:03 AM (UTC+02:00)

Modified By: CLAL-INS\NinaB
Category: Unit Fund|Charges
Column Header: int_rate_net_cumm

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

End

Yes

Cash Flow

Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.2.2.23 management_fee_fixed

Description: **Fixed Management Fees**

Help:

Modified On: 6/29/2021 9:06:00 AM (UTC+03:00)

Modified By: CLAL-INS\joshm Category: Unit Fund|Charges Column Header: management_fee_fixed

Combine Groups By: Sum Both Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Discount Use: Yes Cash Flow Rate Use: Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.2.2.24 management fee variable

Description: Variable Management Fee

Help:

4/30/2020 3:47:08 PM (UTC+03:00) Modified On:

Modified By: CLAL-INS\NinaB Category: Unit Fund|Charges

Column Header: management_fee_variable

Sum Both Combine Groups By: Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Discount Use: Yes Rate Use: Cash Flow Rebase Type: **Previous** Yes

Retain Value: False Override: Virtual: False

5.3.2.2.25 net interest rate

Description: Interest rate, net of fixed management fees

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

CLAL-INS\Arikt

Category:

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Unit Fund|Charges

net_interest_rate

Sum Both

Last

-1

End

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow
Previous
Yes
False
False

5.3.2.2.26 management_fee

Description: Management fee

Help:

Modified By:

Modified On: 8/9/2021 10:36:18 AM (UTC+03:00)

Modified By: CLAL-INS\joshm
Category: Unit Fund|Fees
Column Header: management_fee

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.2.2.27 management fee rate

Description: Monthly management fee rate for the unit sub

fund

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt Category: Unit Fund|Fees

Column Header: management_fee_rate

Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

No

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.2.2.28 management fee rate annual

Description: Annual management fee rate for the unit sub

fund - only for profil non profit participating

Help:

Modified On: 5/1/2023 1:52:59 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa Category: Unit Fund|Fees

Column Header: management_fee_rate_annual

Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.2.3 External Functions

<No External Functions Exist>

5.3.2.4 Temporary Tables

5.3.2.4.1 pup units tt

Description: PUP units by prem. cessation period (r) and

duration since (c)

Help:

Modified On: 1/11/2023 6:45:46 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Unit Fund
Number of Rows: 1200
Number of Columns: 1200
Calculation Methods: Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.2.5 Scalars

5.3.2.5.1 premium_nb_sp

Description: Extra Single Premium for NB to get opening

account balance

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Embedded Value|Income|Premium

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3 life_cflow

Description:

Help:

Base Model Class: none Model References All

Read File: Before Start Up

Modified On: 5/29/2025 12:13:29 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

5.3.3.1 Variables

5.3.3.1.1 ben period min

Description: Ben Period Min

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Integer Number

Default Value: 0
Length: 1
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.2 ben term max

Description: max benefit term

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.3 benefit_term_original

Description: Benefit Term Original

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.4 col_char

Description: Col Char

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Character

Default Value: 0
Length: 20
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.5 dactype

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.6 decrem_mult_col_key

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Character

Default Value: 0
Length: 20
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.7 decrem_mult_row_key

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Character

Default Value: 0
Length: 20
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.8 fund_name

Description: Lookup value code variable wildcard

Help: Model fund name/number, based on actual fund

number from data file

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Not Applicable

Valid Range From: Valid Range To: Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.9 mat_period_min

Description: Mat Period Min

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Integer Number

Default Value: 0
Length: 10
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.10 mat period original

Description: Original maturity period for trad polices using

multi age retirement

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.11 mgtfee_acc_after

Description: Lookup value code variable

Help: Fixed Management fee % after accumulation

amount 2

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.12 mgtfee_age_after

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.13 mgtfee_dthben

Description: Lookup value code variable wildcard

Help: Management fee reduction % by Death benefit

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.14 par_npar

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.15 par npar yesodi

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To: Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.16 prate_level

Description: Prate Level

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 2

Choice List:

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.17 retirement rate

Description: Percentage retiring at current age

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.18 row_char

Description: Row Char

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Character

Default Value: 0
Length: 20
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.19 row num

Description: Row Num

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.20 sal_rider_tbl

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.21 tarif_spec_lookup_freq

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.22 temp_col_fund

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Character

Default Value: 0
Length: 20
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.23 ann_maslul

Description:

Annuity track of annuities currently in payment policy annuity factor of not guaranteed period

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Annuity

Variable Type: Integer Number

Default Value: 0
Length: 6
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 9000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.24 annuitization rate

Description: % of maturing policies taking annuity

Help: Percentage of maturing units that are converted

to an annuity.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Annuity

Variable Type: Floating Point Number

Default Value: 0.1
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.25 annuity_takeup_max

Description: Maximum annuity take up rate at maturity

Help: This rate should be net of annuity payment

expenses, and should be rounded to the

nearest basis point.

It is used to lookup the annuity value. 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Annuity

Variable Type: Floating Point Number

Default Value: 1
Length: 0
Number of Decimals: 2

Choice List:

Modified On:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 6

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.26 annuity_takeup_new_tag

Description: New tagmulim new annuity take up rate at

maturity

Help: This rate should be net of annuity payment

expenses, and should be rounded to the

nearest basis point.

It is used to lookup the annuity value. 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Annuity

Variable Type: Floating Point Number

Default Value: 87.5
Length: 0
Number of Decimals: 2

Choice List:

Modified On:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.27 annuity_takeup_old

Description: Old money annuity take up rate at maturity

Help: This rate should be net of annuity payment

expenses, and should be rounded to the

nearest basis point.

It is used to lookup the annuity value. 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Annuity

Variable Type: Floating Point Number

Default Value: 16.3
Length: 0
Number of Decimals: 2

Choice List:

Modified On:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.28 annuity takeup piz

Description: Pitzuim annuity take up rate at maturity

This rate should be net of annuity payment expenses, and should be rounded to the

nearest basis point.

It is used to lookup the annuity value. 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Annuity

Variable Type: Floating Point Number

Default Value: 17.9
Length: 0
Number of Decimals: 2

Choice List:

Modified On:

Help:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.29 annuity_takeup_prat

Description: Prat money annuity take up rate at maturity

Help: This rate should be net of annuity payment

expenses, and should be rounded to the

nearest basis point.

It is used to lookup the annuity value. 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Annuity

Variable Type: Floating Point Number

Default Value: 6
Length: 0
Number of Decimals: 2

Choice List:

Modified On:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.30 bonus tbl row

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Annuity

Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.31 gimla_col_key

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Annuity
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.32 gimla_db_period_w

Description: Term during which Gimla death benefit exists

(in months)

Help: Working Variable - calculated in set other

variable.

For Klassi Gimla product (ben_class="gimla"). Death benefit term (in months) during which a

death lump sum is paid out.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Annuity

Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 10000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.33 gimla row key

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Annuity

Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.34 gimla table

Description: Annuity value at maturity (SP)

Help: PV of annuities at maturity (or at 'vesting date').

Deducted from single premium table.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Annuity

Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Name (numeric)

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.35 old antiselection adj

Description: Adjustment to anti-selection i.r.o. old tagmulim

Help:

Modified On: 2/18/2021 10:36:16 AM (UTC+02:00)

Modified By: CLAL-INS\NinaB

Category: Annuity

Variable Type: Floating Point Number

Default Value: 100
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.36 piz_antiselection_adj

Description: Adjustment to anti-selection i.r.o. pizuim due to

tax-exempt limit

Help:

Choice List:

Modified On: 2/14/2021 3:19:28 PM (UTC+02:00)

Modified By: CLAL-INS\NinaB

Category: Annuity

Variable Type: Floating Point Number

Default Value: 100
Length: 0
Number of Decimals: 2

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.37 prat antiselection adj

Description: Adjustment to anti-selection i.r.o. private funds

Help:

Modified On: 2/18/2021 10:35:59 AM (UTC+02:00)

Modified By: CLAL-INS\NinaB

Category: Annuity

Variable Type: Floating Point Number

Default Value: 100
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.38 res_prop_key

Description: res prop column lookup

Help: res_prop type to lookup in tk prop data: old_tag,

new_tag, piz or prat

Modified On: 12/11/2022 1:17:24 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Annuity
Variable Type: Character

Default Value: 0
Length: 22
Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.39 res prop newtag data

Description: Proportion of new tagmulim money from data

Help:

Modified On: 9/14/2020 9:59:47 AM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Category: Annuity

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 4

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.40 res_prop_old_data

Description: Proportion of old money from data

Help:

Modified On: 9/14/2020 9:52:32 AM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Category: Annuity

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 4

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1

Table Format: Default Row Numbers

Set Value in Input Manager: Al

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.41 res_prop_piz_data

Description: Proportion of pizuim money from data

Help:

Modified On: 9/14/2020 10:02:44 AM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Category: Annuity

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 4

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.42 res_prop_prat_data

Description: Proportion of prat money from data

Help:

Modified On: 9/14/2020 10:53:16 AM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Category: Annuity

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 4

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.43 takeup_age

Description: Take-up age for annuities

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Annuity

Variable Type: Integer Number

Default Value: 67
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.44 col

Description: Col

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Balance Sheet|Reserves

Variable Type: Character

Default Value: F
Length: 10
Number of Decimals: 1
Choice List: F

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.45 cap_req_perc_premium_temp

Description: Capital required as % of annual premium

Help: The percentage of the annual premium for the

capital required (Set in the product

specifications table)

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Capital

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.46 cap req perc reserve temp

Description: Capital required as % of reserve

Help: The percentage of the annual premium for the

capital required (Set in the product

specifications table)

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Capital

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.47 profit weighting

Description: profit weighting for IFRS - gross

Help: Maximum cumulative claim inflation allowed (for

health products). As a percentage.

For example, 200 means that the claims inflation will stop if and when the claims reach

double the base assumption.

Modified On: 5/8/2023 9:52:48 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Cashflows

Variable Type: Floating Point Number

Default Value: 0

Length: 1
Number of Decimals: 5

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.48 profit_weighting_re

Description: profit weighting reinsurance - for IFRS

Help: Maximum cumulative claim inflation allowed (for

health products). As a percentage.

For example, 200 means that the claims inflation will stop if and when the claims reach

double the base assumption.

Modified On: 5/8/2023 9:44:05 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Cashflows

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 5

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.49 charge addition absolute

Description: charge_addition_absolute

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Charges

Variable Type: Floating Point Array

Default Value: 0
Length: 26
Number of Decimals: 8

Choice List:

Character Type: Not Applicable

Valid Range From: -1 Valid Range To: 1

Table Format: **Default Row Numbers**

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order:

5.3.3.1.50 charge addition perc

Description: charge_addition_perc

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Charges

Variable Type: Floating Point Array

Default Value: 0 Length: 26 Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: -100 Valid Range To: 500

Table Format: **Default Row Numbers**

Set Value in Input Manager:

Variable Sharing: Not Shared

0 Category Order:

5.3.3.1.51 comm_by_cal

Description: Calculate Comm Re by Calendar duration or

Policy duration

Help:

Modified On: 1/5/2025 3:01:34 PM (UTC+02:00)

Modified By: CLAL-INS\arikt Charges Category: Variable Type: Character

Default Value: 0 10 Length: 0 Number of Decimals:

Choice List:

Standard Character Type:

Valid Range From: Valid Range To:

Table Format: **Default Row Numbers**

Set Value in Input Manager: ΑII

Not Shared Variable Sharing:

0 Category Order:

5.3.3.1.52 gorem_mult

Description: Percentage of police fee from assumption file

Help:

Modified On: 12/10/2023 11:48:02 AM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Charges

Variable Type: Floating Point Number

Default Value: 1
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.53 interest_re_calculate

Description: Calculate interest re (Y) or make zero (N)

Help:

Modified On: 9/12/2024 11:23:11 AM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Charges
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.54 margin_disc_col_key

Description: Column lookup key for retention scenario

Help:

Modified On: 11/30/2020 10:15:12 AM (UTC+02:00)

Modified By: CLAL-INS\NinaB

Category: Charges
Variable Type: Character

Default Value: DN_prem_adif

Length: 15 Number of Decimals: 1

Choice List: DN_prem_adif
Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.55 mgt_deficit_perc

Description: Management fee surplus/deficit as % of

accumulation

Help:

Modified On: 12/12/2019 2:36:29 PM (UTC+02:00)

Modified By: CLAL-INS\NinaB

Category: Charges

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 5

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

Description: Discount on management fees

Help:

Modified On: 11/29/2020 2:51:48 PM (UTC+02:00)

Modified By: CLAL-INS\NinaB

Category: Charges

Variable Type: Floating Point Number

Default Value: 2
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order:

5.3.3.1.57 mgt_fee_fixed

Description: Fixed Management fee %

Help: Management fee as a fixed annual percentage.

Loaded from table.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Charges

Variable Type: Floating Point Number

Default Value: 0.6
Length: 0
Number of Decimals: 4

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.58 mgt_fee_fixed_input

Description: Fixed Management fee %

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Charges

Variable Type: Floating Point Number

Default Value: 0.6
Length: 0
Number of Decimals: 4

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.59 mgt_fee_fixed_puresav

Description: Fixed Management fee % for pure saving

component

Help: Management fee as a fixed annual percentage .

Loaded from table.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Charges

Variable Type: Floating Point Number

Default Value: 0.6
Length: 0
Number of Decimals: 4

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.60 mgt fee variable

Description: variable management fee proportion (%)
Help: Loaded from table as a percentage
Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Charges

Variable Type: Floating Point Number

Default Value: 15
Length: 0
Number of Decimals: 4

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.61 mgt_fee_variable_input

Description: variable management fee proportion (%)

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Charges

Variable Type: Floating Point Number

Default Value: 0.6
Length: 0
Number of Decimals: 4

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.62 mgtfee acc

Description: Accumulation amount for Fixed Management

fee % to apply after amount x

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Charges

Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 1000000

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.63 mgtfee_age

Description: Age for Fixed Management fee % to apply after

age x

Help: Management fee as a fixed annual percentage .

Loaded from table.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Charges

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.64 mgtfee disc after

Description:

Lookup value code variable wildcard
Help:

Management fee rate after discount
Modified On:

8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Charges

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.65 mgtfee_disc_mth

Description:

Lookup value code variable wildcard

Help:

Management fee discount month from t=0

Modified On:

8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Charges

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.66 *mgtfee_floor*

Description: Minimum Fixed Management fee %

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Charges

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 4

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.67 mgtfee_format

Description: Management fee format number

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Charges

Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.68 mgtfee_from_dthben

Description: Amount of dath benefit from which discount

starts

Help: Management fee as a fixed annual percentage .

Loaded from table.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Charges

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 1000000

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.69 mgtfee from senior

Description: The number of premium paying month from

which start Management fee discount

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Charges

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 240

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.70 mgtfee_max_dthben

Description: Maximum dath benefit from which minimum

management fee starts

Help: Management fee as a fixed annual percentage.

Loaded from table.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Charges

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 2000000

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.71 mgtfee orig

Description: original Fixed Management fee % before

discount

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Charges

Variable Type: Floating Point Number

Default Value: 0.6
Length: 0
Number of Decimals: 4

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.72 mgtfee_senior

Description: Lookup value code variable wildcard

Help: Management fee reduction % by premium

paying months

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Charges

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.73 reserve_re_increase_calculate

Description: Calculate reserve re increase (Y) or make zero

(N)

Help:

Modified On: 9/12/2024 11:23:53 AM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Charges
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.74 surr_charge_set_temp

Description: Surrender charge assumption set

Help: Surrender charge assumption set. If

read_from_table = "Y", then this variable will be

set in set_common_variables.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Charges
Variable Type: Character
Default Value: default
Length: 7
Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.75 surr chg perc sav

Description: Surrender charges (% units) for extra savings

Help: Surrender charges as a % of units for each

policy month, for the pure saving portion of the

policy (Adif or Profil).

Read from surr_chg_tbl in set_by_prodcode.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Charges

Variable Type: Floating Point Array

Default Value: 0
Length: 1001
Number of Decimals: 4

Choice List:

Character Type: Not Applicable

Valid Range From: -100
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.76 surr_chg_perc_units

Description: Surrender charges (% units) for basic savings
Help: Surrender charges as a % of units for each

Surrender charges as a % of units for each policy month, for the basic portion of the policy

(Adif or Profil).

Read from surr_chg_tbl in set_by_prodcode.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Charges

Variable Type: Floating Point Array

Default Value: 0
Length: 1001
Number of Decimals: 4

Choice List:

Character Type: Not Applicable

Valid Range From: -100
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.77 tat_shnatiut_assum

Description: Tat Shnatiut rate from assumption table

FundRate

Help:

Modified On: 12/7/2023 12:31:25 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt Category: Charges

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.78 tat_shnatiut_input

Description: percentage of modal loading

Help: modal loading percentage. Set from

fund_rate_tbl in set exp variables if

"read_from_table" = Y;

Modified On: 12/7/2023 12:04:16 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Charges

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: -100
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.79 tat_shnatiut_rate

Description: Percentage of modal loading

Help:

Modified On: 12/7/2023 12:32:59 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Charges

Variable Type: Floating Point Number

Default Value:

Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.80 use tat shnatiut assum

Description: Use Tat Shnatiut from assumption file (Y) or

data (N)

Help:

Modified On: 12/20/2023 6:04:35 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Charges
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.81 age_adj

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Claims

Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.82 claim_cost_factors_tbl

Description: Claims Cost Table for Profil Riders

Help: Annuity Factors applied to claims of type

PHI/FIB/LTC etc.

Factors are in respect of 1 sheckel monthly

benefit.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Claims

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.83 claim inflation max

Description: claim_inflation_max

Help: Maximum cumulative claim inflation allowed (for

health products). As a percentage.

For example, 200 means that the claims inflation will stop if and when the claims reach

double the base assumption.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Claims

Variable Type: Floating Point Number

Default Value: 200
Length: 1
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 100
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.84 claim_inflation_max_re

Description: reinsurance claim_inflation_max

Help: Maximum cumulative claim inflation allowed (for

health products). As a percentage.

For example, 200 means that the claims inflation will stop if and when the claims reach

double the base assumption.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Claims

Variable Type: Floating Point Number

Default Value: 200
Length: 1
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 100
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.85 claim_inflation_perc

Description: claim inflation perc

Help: Annual rate of claim increase for health covers

(as a percentage).

Limited by claim_inflation_max. Applied from the valuation date.

If (Read_from_Tables="Y") then read from the

claims multiple table (duration 0) 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Claims

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 2

Choice List:

Modified On:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 25

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.86 claim_rates_tbl

Description: claim rates table for Profil riders

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Claims

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.87 claims cost factors tbl

Description: claim cost factors table (annuity factors)

Help: PV of future claim payments (here: as

multiplyer of the sum assured).

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Claims

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Name (numeric)

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

Description: claims cost lookup code

Help: This is the index value to lookup claims cost

rates in the claim_cost.tbl. It is looked up initially from the tarif_spec.tbl but may be modified by policy data from the file.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Claims
Variable Type: Character

Default Value: 0
Length: 22
Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.89 claims_cost_key_rider

Description: claims cost lookup code for profil riders

Help: This is the index value to lookup claims cost

rates in the claim_cost.tbl. It is looked up initially from the tarif_spec.tbl but may be modified by policy data from the file.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Claims
Variable Type: Character

Default Value: 0
Length: 550
Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.90 claims_cost_multiplier

Description: percentage; modifies basic claims cost

Help: Applied to basic claims cost rate to account for

special covers such as murchav and franchisa whose claims costs are assumed to be a

straight percentage higher than the basic claims cost assumption. Also accounts for reduced claims costs of shichrur covers (hachnasa

btucha).

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Claims

Variable Type: Floating Point Number

Default Value: 1
Length: 0
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 10

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.91 claims_multiplier

Description: Claim multiplier by policy year (for non-death)

Help: Rate multiplier as a percent and is used to

adjust rates for expected future

improvements/worsening in experience.

Array items relate to policy years: year 1=array

item 1. Array item 0 is not used.
The array contains factors (%) that are
multiplied by the basic decrement rates (in
addition to the global/constant multiplier).

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Claims

Variable Type: Floating Point Array

Default Value: 0 100 100 Length: 120 Number of Decimals: 7

Choice List:

Character Type: Not Applicable

Valid Range From: -100
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.92 clms_mult_col_key

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Claims
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.93 clms_mult_i

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Claims

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

Description: Lookup value code variable

Help:

Modified On: 7/13/2021 1:45:35 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Claims

Variable Type: Integer Number

Default Value: 0
Length: 10
Number of Decimals: 0
Choice List: 0

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Claims

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.96 clms_mult_pol_yr_key

Description: Lookup value code variable

Help:

Modified On: 7/13/2021 1:45:43 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Claims

Variable Type: Integer Number

Default Value: 0
Length: 10
Number of Decimals: 0
Choice List: 0

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.97 clms_mult_row_key

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Claims Variable Type: Character

Default Value: Length: 10 Number of Decimals: 0

Choice List:

Standard Character Type:

Valid Range From: Valid Range To:

Table Format: **Default Row Numbers**

Set Value in Input Manager:

Not Shared Variable Sharing:

Category Order:

5.3.3.1.98 clms mult set temp

Description: Claims multipliers assumption set Claims multipliers assumption set. Help:

If read from table = "Y", then this variable is used, in set_from_tables, to lookup the

appropriate values for the claims_mult variable,

from the clms_mult_tbl table.

If lookup by prodcode = "Y" then this variable is set, in set_by_prodcode, to a value from the

prodspec_tbl table.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Claims Variable Type: Character Default Value: default Length: 7 Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From: Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared Category Order: 0

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Claims

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.100 exp_col_key

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Claims
Variable Type: Character
Default Value: 0

Length: 20
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.101 exp_madad

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Claims

Variable Type: Floating Point Number

Default Value: 0
Length: 10
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.102 exp_row_key

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Claims
Variable Type: Character

Default Value: 0
Length: 20
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.103 interest

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Claims
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.104 madad

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Claims
Variable Type: Character
Default Value: 0

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.105 min_ytron_perc

Description: Min ytron perc of SI

Help: Percentage of SI of minimum DB. Applicable for

benefit class "Ytron" only.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Claims

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.106 prem_extra

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Claims
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.107 prem_re_mult

Description: Premium re factor by contract

Help:

Modified On: 1/22/2024 3:53:35 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Claims
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.108 prof_comm

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Claims
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.109 quota_share_ppn

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Claims
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.110 rein_series_end_key_temp

Description: Reinsurance series end data for the temp reins

set key

Help:

Modified On: 10/25/2021 3:08:07 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Claims
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From: Valid Range To: Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.111 retention

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Claims
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.112 risk rate freq w

Description: frequency of Risk rates in table

Help: Frequency of risk rate in risk rates table i.e per

month (12) or per annum (1)

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Claims

Variable Type: Integer Number

Default Value: 1
Length: 1
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 1
Valid Range To: 12

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.113 row

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Claims
Variable Type: Character

Default Value: 0
Length: 20
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.114 series_col_key

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Claims
Variable Type: Character

Default Value: 0
Length: 20
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.115 sum_ins_incr_rider

Description: Sum Insured increase rate pa (%) for profil

riders

Help: Annual rate of increase in the sum assured

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Claims

Variable Type: Floating Point Array

Default Value: 0
Length: 25
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 10

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.116 type

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Claims
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.117 use phi claims cf

Description: Creat CF of phi claims in payment?

Help: If "N" claims paid as lump sum by using claims

cost factor.

If "Y" creat cash flow of claims in payment

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Claims
Variable Type: Character

Default Value:

Length:

Number of Decimals:

Choice List:

Y

V

Y

Y

Y

Number of Decimals:

O

Choice List:

Y,N

Character Type:

Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

Description: Clawback assumption set

Help: Clawback assumption set. If read_from_tables

= "Y", then this variable will be set in

set_common_variables.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Clawback
Variable Type: Character
Default Value: default
Length: 7
Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.119 comm_claw_prpn_hekef

Description: Clawback proportion for nihul com

Help: Clawback in each policy month as a proportion

of the extra initial commission paid. Set from comm_claw_tbl in set_comm_variables

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Clawback

Variable Type: Floating Point Array

Default Value: 0 0 0 0 Length: 600 Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.120 comm_claw_prpn_spv

Description: Clawback proportion for supervisor com

Help: Clawback in each policy month as a proportion

of the supervisor commission paid.

When read_from_tables = "Y" set based on comm_claw_prpn_tbl and clwback_set and product_type in the set_frrom_tables formula

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Clawback

Variable Type: Floating Point Array

Default Value: 0 0 0 0 Length: 600 Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.121 comm_claw_prpn_tbl

Description: Clawback proportion table

Help: Table of clawback in each policy month as a

proportion of the initial commission paid. 8/27/2019 4:00:59 PM (UTC+03:00)

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00

Modified By: CLAL-INS\ninab

Category: Clawback

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Name (numeric)

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.122 alloc_rate_set

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.123 amala 0

Description: commission field from data file

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.124 amala_1

Description: commission field from data file

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.125 amala_10

Description: commission field from data file

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.126 amala_11

Description: commission field from data file

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.127 amala_12

Description: commission field from data file

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.128 amala 13

Description: commission field from data file

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.129 amala 14

Description: commission field from data file

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.130 amala 15

Description: commission field from data file

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.131 amala_16

Description: commission field from data file

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.132 amala_2

Description: commission field from data file

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.133 amala_3

Description: commission field from data file

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.134 amala_4

Description: commission field from data file

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.135 amala_5

Description: commission field from data file

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.136 amala_6

Description: commission field from data file

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.137 amala 7

Description: commission field from data file

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.138 amala 8

Description: commission field from data file

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: (

5.3.3.1.139 amala_9

Description: commission field from data file

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.140 amala nihul 0

Description: commission field from data file

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.141 amala_nihul_1

Description: commission field from data file

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.142 amala nihul 10

Description: commission field from data file

Help:

Modified On: 4/9/2024 5:40:26 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.143 amala_nihul_11

Description: commission field from data file

Help:

Modified On: 4/9/2024 5:40:33 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.144 amala_nihul_12

Description: commission field from data file

Help:

Modified On: 4/9/2024 5:40:34 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.145 amala_nihul_13

Description: commission field from data file

Help:

Modified On: 4/9/2024 5:40:35 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.146 amala_nihul_14

Description: commission field from data file

Help:

Modified On: 4/9/2024 5:40:36 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.147 amala nihul 15

Description: commission field from data file

Help:

Modified On: 4/9/2024 5:40:37 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.148 amala nihul 16

Description: commission field from data file

Help:

Modified On: 4/9/2024 5:40:38 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.149 amala_nihul_2

Description: commission field from data file

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.150 amala_nihul_3

Description: commission field from data file

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.151 amala_nihul_4

Description: commission field from data file

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.152 amala nihul 5

Description: commission field from data file

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.153 amala_nihul_6

Description: commission field from data file

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.154 amala_nihul_7

Description: commission field from data file

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.155 amala_nihul_8

Description: commission field from data file

Help:

Modified On: 4/9/2024 5:40:18 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.156 amala_nihul_9

Description: commission field from data file

Help:

Modified On: 4/9/2024 5:40:24 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.157 amala pikuach 0

Description: superviser commission field from data file

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.158 amala_pikuach_1

Description: superviser commission field from data file

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.159 clms mult set

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.160 clwback set

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.161 comm_claw_row_key

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.162 comm_ext_col_key

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission Character

Default Value: 0 Length: 10 Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: **Default Row Numbers**

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order:

5.3.3.1.163 comm extra agent tbl

Description: Extra commission table (%) by Osek Mureshe Help:

Super commission expressed as a % of initial

regular commissions or % of premium.

Modified On: 3/15/2020 3:45:54 PM (UTC+02:00)

Modified By: CLAL-INS\joshm Category: Commission

Variable Type: Floating Point Number

Default Value: 0 Length: 0 Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To: 999999999

Table Format: Row Name (numeric)

Set Value in Input Manager: ΑII

Not Shared Variable Sharing:

Category Order: 0

5.3.3.1.164 comm_extra_agent_use

Description: Read extra comms from agent table?

Help: Y= overwrite defaults variable values and assumption screen inputs of data with values

read from external tables.

N = do not overwrite defaults variable values and assumption screen inputs of data with

values read from external tables.

Set to N for the profit testing user group since this group will use the assumptions screen

inputs.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission Variable Type: Character

Default Value:

Length:

Number of Decimals:

Choice List:

Character Type:

N

Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.165 comm extra tbl

Description: Extra commission table (%)

Help: Extra and Shimur Tik commissions (manual

commns) expressed as a % of New Premium by Production Year or all years (if year is

omitted).

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Name (numeric)

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.166 comm extra1

Description: Initial commission (%) paid at start

Help: Initial commision as a percentage of 1st annual

premium . Paid at start

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.167 comm_extra1_sav

Description: Extra commission (%) paid at start on savings

Help: Extra %. Commision expressed as a

percentage of initial annualized SAVINGS gross

premium - WITH clawback.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.168 comm_extra2

Description: Initial comm (%) paid at end cal. yr 1.

Help: Initial commission as a percentage of 1

Initial commission as a percentage of 1st annual premium . Paid at the end of the 1st

calendar year.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.169 comm_fix

Description: Monthly fixed commission (shk)

Help: Monthly fixed commission set by policy year.

"dimay tipul" is under consideration at clal but

not yet used.

If read_from_tables=Y then value set in

set_from_tables formula.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Array

Default Value: 0
Length: 116
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.170 comm_hekef_pc

Description: Hekef commission (%) paid at start

Help: Prizes % commision expressed as a

percentage of initial annualized gross premium

with no clawback.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.171 comm_hekef_pc_res

Description: Hekef commission (%) paid at start on reserve

Help:

Modified On: 2/20/2020 10:31:44 AM (UTC+02:00)

Modified By: CLAL-INS\NinaB Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.172 comm_hekef_pc_rider

Description: Profil rider hekef commission (%) paid at start

Help: Prizes % commision expressed as a

percentage of initial annualized gross premium

with no clawback.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.173 comm hekef pc sav

Description: Hekef commission (%) paid for saving at start

Help: Prizes % commision expressed as a

percentage of initial annualized gross premium

with no clawback.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.174 comm_min_prem_term

Description: Minimum term (in months) for full commission
Help: Minimum premium term for agent to receive

100% commission.

If there is no such minimum, then this should be

set to 0.

This is applied to regular initial commission

only.

For LTC (ben-class = "LTC") this is ignored, and instead a special formula based on age at

issue is applied.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 72
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 1000000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.175 comm nihul rate

Description:

Annual Nihul commission (%)
Help:

Annual regular comm %.

Read from table in set_comm_variables().

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Array

Default Value: 0
Length: 116
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.176 comm perc res a

Description: Commissions as % of reserves (basic)

Help: Commission as a % of units, or as a % of the

management fee.

If it is <= 1.0 then it is interpreted as a % of units (used for Adif and Profil normally) and if it

is > 1.0 then it is interpreted as a % of

management fees ("mgt_fee_fixed") but limited so that the minimum management fee will be

"mgt_fee_min".

For Adif this variable is for the basic part only, for Profi & Kav Chadashl it is for the total

including pure savings.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Commission
Variable Type: Floating Point Array

Default Value: 0
Length: 116
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.177 comm_perc_res_a_input

Description: Commissions as % of reserves (basic)

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.178 comm_perc_res_b

Description: Commission. as % of reserves (Pure savin Help: Commissions as a % of pure saving part of

reserves held. Loaded from table. Only if Adif (For Profil pure savings and basic parts the comm_perc_res_a varianble is used)

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Commission
Variable Type: Floating Point Array

Default Value: 0
Length: 116
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.179 comm_perc_res_b_input

Description: Commissions as % of reserves (Pure savings)

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.180 comm_prizes_pc

Description: Prizes commission (%) paid at start

Help: Prizes % commision expressed as a

percentage of initial annualized gross premium

with no clawback.

Modified On: 3/15/2020 11:06:28 AM (UTC+02:00)

Modified By: CLAL-INS\NinaB Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.181 comm_prizes_pc_res

Description: Prize commission (%) paid at start on reserve

Help:

Modified On: 11/25/2020 8:37:44 AM (UTC+02:00)

Modified By: CLAL-INS\NinaB Category: Commission

Variable Type: Floating Point Number

Default Value: 0 Length: 0 Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.182 comm prizes pc sav

Description: Prizes commission (%) paid at start on savings

Help: Prizes % commision expressed as a

percentage of initial annualized savings gross

premium with no clawback.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.183 comm_prof

Description: Profit commission (%) - shareholder
Help: Renewal commission expressed as a % of

premium income.

Modified On: 1/11/2023 9:13:17 AM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 116
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.184 comm_reg_tot_w

Description: total annual regular commission (%)

Help: total Annual regular comm %.

Calculated variable : in set_other_variables

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.185 comm_regular_pc

Description: Annual regualr commission (%)

Help: Annual regular comm %.

Read from table in set_comm_variables() .

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Array

Default Value: 0
Length: 116
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.186 comm_ren_perc_prem

Description: Renewal commission (%)

Help: Renewal commission expressed as a % of

premium income.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 116
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.187 comm_ren_perc_prem_mrtg

Description: Renewal Commission (%) for mortgage policies

sold after 04/2007 and after 16 yrs vetek

Help:

Modified On: 1/25/2022 12:07:01 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.188 comm_ren_perc_sav

Description: Renewal commission (%) for pure saving

Help: Renewal commission expressed as a % of pure

saving premium income. Used when benef

class is adif

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 1
Length: 116
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.189 comm ren shimur

Description: Shimur Tik Renewal commission (%)

Help: Shimur Tik Renewal commission expressed as

a % of premium income for portfolio IF as at

12/2003

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 116
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.190 comm_renewal_year

Description: First year from when renewal commission is

paid

Help: policy year from when renewal commission is

paid.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission Variable Type: Integer Number

Default Value: 1 Length: 0 Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 1
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.191 comm_renewal_year_input

Description: First year from when renewal commission is

paid

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Number

Default Value: 1
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 1
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.192 comm_set

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission Character

Default Value: 0
Length: 10
Number of Decimals: 1

Choice List:

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.193 comm_set_temp

Description: Commission assumption set

Help: Commission assumption set. If read_from_table

= "Y", then this variable will be set in

set_common_variables.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By:
Category:
Commission
Variable Type:
Character
Default Value:
Length:
Number of Decimals:
CLAL-INS\ninab
Commission
Character
default
7

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.194 comm_spvisor

Description: Annual supervisor commission (%)

Help: Annual supervisor comm %.

Read from table in set_comm_variables() .

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Array

Default Value: 0
Length: 116
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.195 decrem_mult_set

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.196 exp mult set

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.197 exp_set_cvr

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.198 exp_set_pol

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.199 key_temp

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission Variable Type: Character

Default Value: 0
Length: 21
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.201 lapse set riders

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Commission
Variable Type: Character
Default Value: lapse_set_riders

Length: 20 Number of Decimals: 1

Choice List: lapse_set_riders

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.202 mort mult set

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.203 om

Description: Lookup value code variable

Help:

Modified On: 3/15/2020 11:09:26 AM (UTC+02:00)

Modified By: CLAL-INS\NinaB Category: Commission

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.204 prod_assumpt_rider_clms_tbl

Description: Lookup value for clms table

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission Character

Default Value: 0
Length: 10
Number of Decimals: 1

Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.205 profil_rider_comm1_6

Description: average profil rider comm rate for years 1 to 6

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Array

Default Value: 0
Length: 25
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.206 profil rider comm7

Description: average profil rider comm rate for years 7+

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Variable Type: Floating Point Array

Default Value: 0
Length: 25
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.207 surr_chg_set

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.208 temp_comm_set

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Commission
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.209 dac_amort_per

Description: DAC amortisation period(months)

Help: DAC amortisation period (in months). Set to

benefit term in startup if DAC_amort _type is

"lifetime".

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: DAC

Variable Type: Integer Number

Default Value: 180
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.210 dac amort per tax

Description: dac_tax amort period(months)

Help: DAC_tax amortisation period (in months). This

period starts from expense payment date.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: DAC

Variable Type: Integer Number

Default Value: 48
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 1
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.211 dac_amort_type

Description: DAC amortisation type Help: DAC amortisation type

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: DAC
Variable Type: Character
Default Value: Fixed
Length: 8
Number of Decimals: 0

Choice List: Fixed,Lifetime

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.212 dac book adj factor

Description: Adjustment factor for Dac book (to scale up

DAC to actuals)

Help: The percentage of the DAC for books that has

to be retained in the company's capital (0%/30%/100% according to current regulations.) Set in set_other_variables.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: DAC

Variable Type: Floating Point Number

Default Value: 100
Length: 0
Number of Decimals: 5

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.213 dac book adj factor input

Description: Adjustment factor for Dac book (to scale up

DAC to actuals)

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: DAC

Variable Type: Floating Point Number

Default Value: 100
Length: 0
Number of Decimals: 5

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.214 dac_book_inforce

Description: DAC books from inforce

Help: variable linked with the reserve field from the

inforce file

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: DAC

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 100000000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.215 dac_book_inforce_input

Description: DAC books from inforce

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: DAC

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 100000000

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.216 dac_cap_apply

Description: Apply capital requirement of x% of DAC

Modified On:

Help: The percentage of the DAC for books that has

to be retained in the company's capital 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: DAC Variable Type: Character

Default Value:

Length:

Number of Decimals:

Choice List:

Character Type:

Standard

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.217 dac_cap_perc_w

Description: Perc. of DAC held as capital

Help: The percentage of the DAC for books that has

to be retained in the company's capital (0%/30%/100% according to current regulations.) Set in set_other_variables.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: DAC

Variable Type: Floating Point Number

Default Value: 30
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.218 dac_tax_adj_factor

Description: Adjustment factor for Dac tax (to scale up DAC

to actuals)

Help: The percentage applied to the DAC tax value

taken from the data file to adjust it according to

the actual DAC held.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: DAC

Variable Type: Floating Point Number

Default Value: 100
Length: 0
Number of Decimals: 5

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.219 dac_tax_adj_factor_input

Description: Adjustment factor for Dac tax (to scale up DAC

to actuals)

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: DAC

Variable Type: Floating Point Number

Default Value: 100
Length: 0
Number of Decimals: 5

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.220 dac_tax_inforce

Description: DAC tax or Zillmer from inforce

Help: variable linked with the reserve field from the

inforce file

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: DAC

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 100000000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.221 dac_tax_inforce_input

Description: DAC tax or Zillmer from inforce

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: DAC

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 100000000

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.222 dac_type_temp

Description: deferred acquisitions cost type

Help: deferred acquisitions cost type/method

used in dac or zillmer calculations.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: DAC
Variable Type: Character
Default Value: il_dac
Length: 6
Number of Decimals: 0

Choice List: il_dac,none
Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.223 ann_def_res_inv_margin

Description: investment margin % for annuity reserve

Help: Investment margin used as discount rate for

annuity deficiency reserve

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0.3
Length: 0
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 10

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.224 ann_def_res_inv_margin_par

Description: investment margin % for annuity reserve for

Participating funds

Help: Investment margin used as discount rate for

annuity deficiency reserve

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0.7
Length: 0
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 10

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.225 ann disc rate m

Description: Lookup value code variable wildcard

Help:

Modified On: 8/25/2022 2:03:37 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa
Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Choice List:

Table Format: Default Row Numbers

Set Value in Input Manager: Al

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.226 ann_inv_rate_m

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.227 ann_inv_rate_m_ifrs

Description: Lookup value code variable wildcard

Help:

Modified On: 6/27/2024 12:42:42 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.228 ann_inv_rate_mth_t

Description: Mthly ann investment income rate by projn

month t

Help: Monthly investment income rate. Calculated

from inv_rate in set_exp_variables. This varies by calender year, in the same way as inv_rate

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Economic assumptions
Variable Type: Floating Point Array

Default Value: 0
Length: 120
Number of Decimals: 9

Choice List:

Character Type: Not Applicable

Valid Range From: -1
Valid Range To: 1

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.229 ann inv rate mth t ifrs

Description: Mthly ann investment income rate by projn

month t - IFRS

Help: Monthly investment income rate. Calculated

from inv_rate in set_exp_variables. This varies by calender year, in the same way as inv_rate

Modified On: 6/27/2024 2:09:53 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Economic assumptions
Variable Type: Floating Point Array

Default Value: 0
Length: 120
Number of Decimals: 9

Choice List:

Character Type: Not Applicable

Valid Range From: -1

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.230 ann inv rate rf mth t

Description: Mthly free investment income rate by projn

month t

Help: Monthly investment income rate. Calculated

from inv_rate in set_exp_variables. This varies by calender year, in the same way as inv_rate

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Economic assumptions
Variable Type: Floating Point Array

Default Value: 0
Length: 120
Number of Decimals: 9

Choice List:

Character Type: Not Applicable

Valid Range From: -1
Valid Range To: 1

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.231 ann series

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

5.3.3.1.232 ann_v_month_t

Description: Ann Discount rate (v) monthly by projection

month t

Help: Monthly v factor by month t for MCEV

calculations in the Experience model and reserve calculations in the Net_Prem model.

Input in assumption set

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Economic assumptions
Variable Type: Floating Point Array

Default Value: 0.0025 Length: 120 Number of Decimals: 8

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.233 ann_v_month_t_ifrs

Description: Ann Discount rate (v) monthly by projection

month t

Help: Monthly v factor by month t for MCEV

calculations in the Experience model and reserve calculations in the Net_Prem model.

Input in assumption set

Modified On: 6/27/2024 12:50:49 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Economic assumptions
Variable Type: Floating Point Array

Default Value: 0.0025
Length: 120
Number of Decimals: 8

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

5.3.3.1.234 cap_req_perc_premium

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.235 cap_req_perc_reserve

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.236 commres_addvat

Description: add vat to comm reserves

Help:

Modified On: 11/14/2024 4:49:37 PM (UTC+02:00)

Modified By: CLAL-INS\arikt

Category: Economic assumptions

Variable Type: Character

Default Value:

Length:

Number of Decimals:

Choice List:

Y,N

Character Type:

Valid Range From:

Valid Range To:

N

1

1

Y,N

Standard

-100

100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.237 cu_discounted

Description: discount coverage-units

Help:

Modified On: 8/1/2024 11:50:20 AM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Economic assumptions

Variable Type: Character

Default Value:

Length:

Number of Decimals:

Choice List:

Y,N

Character Type:

Valid Range From:

Valid Range To:

N

1

1

Y,N

Standard

-100

100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.238 dac_book_fac

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.239 dac_tax_fac

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.240 disc rate m

Description: Lookup value code variable wildcard

Help:

Modified On: 8/25/2022 2:03:19 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa
Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.241 ev disc rate

Description: EV discount rate (%)

Help: Annual discount rate for embedded value

valuations.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 12
Length: 30
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.242 ev_discount_rate_type

Description: Use Vector or Single rate

Help: EV Dscount rate to use for the run:

Vector= uses the input discount vector (v-

month_t)

Single = replaces discount vector based on the

single input rate

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Economic assumptions

Variable Type: Character
Default Value: Vector
Length: 7
Number of Decimals: 0

Choice List: Single, Vector, Earned

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Economic assumptions

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.244 fixed mgt fee term

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Economic assum

Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.245 free inv prop t

Description: Free investment proportion by projn month t

Help: Monthly investment income rate. Calculated

from inv_rate in set_exp_variables. This varies by calender year, in the same way as inv_rate

Modified On: 4/2/2023 1:55:08 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa
Category: Economic assumptions
Variable Type: Floating Point Array

Default Value: 1
Length: 120
Number of Decimals: 9

Choice List:

Character Type: Not Applicable

Valid Range From: -1
Valid Range To: 1

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.246 free inv ratio tbl

Description: Free investment ratio by fund

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Name (numeric)

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.247 fund_rates_code_tbl

Description: Table of parameters by fund Help: Read in set_exp_variables.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Name (numeric)

Set Value in Input Manager: All

Variable Sharing: Not Shared

5.3.3.1.248 int_rate_res

Description: interest rate (%) for reserves

Help: Annual rate.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 4
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 20

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.249 intres

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.250 intres_puresav

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.251 inv_rate_m

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.252 inv_rate_m_ifrs

Description: Lookup value code variable wildcard

Help:

Modified On: 6/27/2024 12:43:35 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.253 inv_rate_mth_t

Description: Mthly investment income rate by projn month t

Help: Monthly investment income rate. Calculated

from inv_rate in set_exp_variables. This varies by calender year, in the same way as inv_rate

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Economic assumptions
Variable Type: Floating Point Array

Default Value: 0
Length: 120
Number of Decimals: 9

Choice List:

Character Type: Not Applicable

Valid Range From: -1
Valid Range To: 1

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.254 inv rate mth t ifrs

Description: Mthly investment income rate by projn month t -

IFRS

Help: Monthly investment income rate. Calculated

from inv_rate in set_exp_variables. This varies by calender year, in the same way as inv_rate

Modified On: 6/27/2024 2:09:05 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Economic assumptions
Variable Type: Floating Point Array

Default Value: 0
Length: 120
Number of Decimals: 9

Choice List:

Character Type: Not Applicable

Valid Range From: -1
Valid Range To: 1

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Description: Mthly free investment income rate by projn

month t

Help: Monthly investment income rate. Calculated

from inv_rate in set_exp_variables. This varies by calender year, in the same way as inv rate

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Economic assumptions
Variable Type: Floating Point Array

Default Value: 0
Length: 120
Number of Decimals: 9

Choice List:

Character Type: Not Applicable

Valid Range From: -1
Valid Range To: 1

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.256 inv_rate_rm_m

Description: Lookup value code variable wildcard

Help:

Modified On: 8/25/2022 9:44:50 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa
Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.257 inv rate rollup

Description: Investment income rate (%) for the rollup period

Help: Annual investment income rate on free assets.

This is average with the fund-specific rate on special bonds, to obtain inv_rate_mth_w which

is used in the projection.

This may vary by calender year. The array index = calender year - valn_year + 1. In the fund rate table inv free may be entered for a

specific calender year.

Modified On: 9/12/2019 11:23:33 AM (UTC+03:00)

Modified By: CLAL-INS\NinaB
Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0
Length: 30
Number of Decimals: 9

Choice List:

Character Type: Not Applicable

Valid Range From: -1
Valid Range To: 1

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.258 invinc

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.259 max chetz

Description: Lookup value code variable wildcard

Help:

Modified On: 6/27/2024 12:41:21 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.260 mort addn

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.261 mort res

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.262 mortg int

Description: Annual interest (%) on mortgage

Help: Annual interest for benefit class "mortg"

(mortgage).

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 4
Length: 0
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.263 mortg_int_mth_w

Description: Monthly interest (%) on mortgage

Help: Monthly interest for benefit class "mortg"

(mortgage). Calculated in startup

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

5.3.3.1.264 phi_res_discount_rate_type

Description: Use RF or Single rate

Help: EV Dscount rate to use for the run:

Vector= uses the input discount vector (v-

month_t)

Single = replaces discount vector based on the

single input rate

Modified On: 1/18/2024 2:20:52 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Economic assumptions

Variable Type: Character
Default Value: Vector
Length: 7
Number of Decimals: 0

Choice List: Single, Vector, Earned

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.265 res_fac_row_key

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Economic assumptions

Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.266 risk free row key

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Economic assumptions

Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.267 tax rate

Description: Lookup value coode variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.268 temp_fund

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Economic assumptions

Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1

Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.269 v_month_t

Description: Discount rate (v) monthly by projection month t

Help: Monthly v factor by month t for MCEV

calculations in the Experience model and reserve calculations in the Net_Prem model.

Input in assumption set

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Economic assumptions
Variable Type: Floating Point Array

Default Value: 0.0025 Length: 120 Number of Decimals: 8

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.270 v month t ifrs

Description: Discount rate (v) monthly by projection month t

- IFRS

Help: Monthly v factor by month t for MCEV

calculations in the Experience model and reserve calculations in the Net_Prem model.

Input in assumption set

Modified On: 6/27/2024 12:51:18 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Economic assumptions
Variable Type: Floating Point Array

Default Value: 0.0025
Length: 120
Number of Decimals: 8

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

Description:

Help: Annual rate.

Modified On: 6/25/2024 7:06:08 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt

Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 4
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 20

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.272 **v_month_t_rm**

Description: Discount rate (v) monthly by projection month t

- for risk margin

Help: Monthly v factor by month t for MCEV

calculations in the Experience model and reserve calculations in the Net_Prem model.

Input in assumption set

Modified On: 12/3/2020 11:52:43 AM (UTC+02:00)

Modified By: CLAL-INS\NinaB
Category: Economic assumptions
Variable Type: Floating Point Array

Default Value: 0.0025 Length: 120 Number of Decimals: 8

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.273 v_month_w

Description:

Discount rate (v) monthly

Help:

Equals 1 / (1 + disc_rate_mth).

Monthly v factor for embedded value calculations in the Experience model and reserve calculations in the Net_Prem model. Calculated in function calls from startup.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0.99
Length: 0
Number of Decimals: 6

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.274 var_mgt_fee

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

5.3.3.1.275 vat

Description: V.A.T

Help: V.A.T as a percentage

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Economic assumptions
Variable Type: Floating Point Number

Default Value: 17
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.276 exp_claim_fix

Description: Fixed claim expense per policy

Help: Exit expenses per policy. Loaded from table.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Expenses

Variable Type: Floating Point Number

Default Value: 10
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 10000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.277 exp_claim_max

Description: Maximum claim expense

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Expenses

Variable Type: Floating Point Number

Default Value: 10
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.278 exp_claim_perc

Description: Claim expense as % of claim payment

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Expenses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.279 exp_dac_perc

Description: Proportion of initial expenses deferred (in DAC)

Help: Proportion (%) of initial expenses that are

deferable in the DAC.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Expenses

Variable Type: Floating Point Number

Default Value: 80
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.280 exp_extra_perc_charge

Description: extra expenses as % of risk rider charges
Help: An array of expense percentage applied to

An array of expense percentage applied to charges on risk riders (for Profil riders). This is

the "extra" amount, because there is already an expense on the total premium received.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Expenses

Variable Type: Floating Point Array

Default Value: 10
Length: 26
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.281 exp init fix

Description: Initial expense per policy (sheckels)

Help: Initial expenses per policy. Loaded from table.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Expenses

Variable Type: Floating Point Number

Default Value: 10
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 2000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Description: Initial expense per cover (sheckels)

Help: Initial expenses per policy. Loaded from table.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Expenses

Variable Type: Floating Point Number

Default Value: 10
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 2000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.283 exp_init_perc_prem

Description: Initial expenses as % of premium

Help: Initial expenses expressed as a % of the first

year premium. Loaded from table.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Expenses

Variable Type: Floating Point Number

Default Value: 5
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.284 exp_initial_extra_perc_charge

Description: extra initial expenses as % of risk rider charges

Help: An array of expense percentage applied to

charges on risk riders (for Profil riders). This is the "extra" amount, because there is already an

expense on the total premium received.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Expenses

Variable Type: Floating Point Array

Default Value: 10
Length: 26
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.285 exp initial fix rider

Description: extra initial expenses in shekels for rider
Help: An array of expense percentage applied

An array of expense percentage applied to charges on risk riders (for Profil riders). This is the "extra" amount, because there is already an

expense on the total premium received.

Modified On: 11/17/2021 9:42:27 AM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Expenses

Variable Type: Floating Point Array

Default Value: 10
Length: 26
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

Description: Expense multiplier assumption set Help: Expense multiplier assumption set. If

read_from_table = "Y", then this variable will be

set in set_common_variables.

0/07/0040 4 00 50 DM (UTO 00 00

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Expenses
Variable Type: Character
Default Value: default

Length: 7
Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.287 exp_mult_tbl

Description: Expense multipliers (%)

Help: Expense multipliers table for initial and renewal

expenses.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Expenses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Row Name (numeric)

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.288 exp_pup_fix

Description: Renewal expense for paid-up policies

(sheckels)

Help: Fixed, annual, per policy renewal expense for

paid up policies.

Read in from expense_tbl in set

categ_variables.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Expenses

Variable Type: Floating Point Number

Default Value: 50
Length: 0
Number of Decimals: 4

Choice List:

Character Type: Not Applicable

0 Valid Range From: 1000 Valid Range To:

Table Format: **Default Row Numbers**

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order:

5.3.3.1.289 exp ren fix

Description: Renewal expense per policy (sheckels) Help:

Annual renewal expenses per policy. Loaded

from table.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Expenses

Variable Type: Floating Point Number

Default Value: 4 Length: 110 Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0 Valid Range To: 10000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

0 Category Order:

5.3.3.1.290 exp_ren_fix_cov

Description: Renewal expense per cover (sheckels)

Help: Annual renewal expenses per policy. Loaded

from table.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Expenses

Variable Type: Floating Point Number

Default Value: 4 Length: 110 Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To: 10000

Table Format: **Default Row Numbers**

Set Value in Input Manager:

Variable Sharing: Not Shared

5.3.3.1.291 exp_ren_fix_rider

Description: extra renewal expenses in shekels for rider
Help: An array of expense percentage applied to

charges on risk riders (for Profil riders). This is the "extra" amount, because there is already an

expense on the total premium received.

Modified On: 11/17/2021 9:44:28 AM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Expenses

Variable Type: Floating Point Array

Default Value: 10
Length: 26
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.292 exp_ren_perc_annuity

Description: Renewal expense as % of annuity

Help: Renewal expenses as a % of annuity payment.

Loaded from table.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Expenses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.293 exp_ren_perc_prem

Description: Renewal expense as % of premium

Help: Renewal expenses as a % of premium income.

Loaded from table.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Expenses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.294 exp_ren_res

Description: expense as percentage of reserves

Help: Renewal expenses (annual percentage but paid

monthly) as a percentage of reserve. Loaded

from table.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Expenses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 2000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.295 exp row lookup

Description: Expenses table row lookup

Help: Expenses assumption set. If read_from_table =

"Y", then this variable will be used in

set_common_variables.

Modified On: 10/26/2021 1:29:18 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Expenses

Variable Type: Character
Default Value: default
Length: 7
Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.296 i percov

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Expenses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.297 i percov sp

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Expenses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To: Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.298 i_perpol

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Expenses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.299 i perpol sp

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Expenses

Variable Type: Floating Point Number

Default Value: 0
Length: 10
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

5.3.3.1.300 i_prem

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Expenses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.301 i single

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Expenses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.302 infl_rate_expenses

Description: Expense inflation rate (%)

Help: Per policy expenses are subject to be adjusted

every month to an inflation index. This is the annual inflation rate and is the experience

projection assumption.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Expenses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 50

Table Format: Default Row Numbers

Set Value in Input Manager: Al

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.303 m ann pmt

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Expenses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.304 m clms

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Expenses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order:

5.3.3.1.305 m clms cov

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Expenses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.306 m percov

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Expenses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.307 m_percov_sp

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Expenses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.308 m_perpol

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Expenses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.309 m_prem

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Expenses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.310 m_pup

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Expenses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.311 m res

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Expenses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.312 m_res_nonpar

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Expenses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.313 m res par

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Expenses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.314 agency no lookup

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Lapses Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

Description: Lookup set for clawback factor

Help:

Modified On: 3/9/2020 10:07:07 AM (UTC+02:00)

Modified By: CLAL-INS\NinaB

Category: Lapses
Variable Type: Character

Default Value: clawback_factor_default

Length: 25 Number of Decimals: 1

Choice List: clawback_factor_default

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.316 factor_key

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Lapses
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1

Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.317 lapse_clawback_factor

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Lapses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.318 lapse expos col key

Description: Lookup value code variable

Help:

Modified On: 12/14/2022 2:49:41 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Lapses
Variable Type: Character

Default Value: 0
Length: 20
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.319 lapse_factor_profil_rider

Description: Lookup value code variable

Help:

Modified On: 12/23/2024 8:57:50 PM (UTC+02:00)

Modified By: CLAL-INS\arikt

Category: Lapses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.320 lapse_factor_proj

Description: Lookup value code variable

Help:

Modified On: 12/19/2024 3:33:26 PM (UTC+02:00)

Modified By: CLAL-INS\arikt

Category: Lapses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.321 lapse_factor_proj_rider

Description: Lookup value code variable

Help:

Modified On: 12/19/2024 3:34:40 PM (UTC+02:00)

Modified By: CLAL-INS\arikt

Category: Lapses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Lapses
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.323 lapse factor y1

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Lapses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To: Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Lapses
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.325 lapse factor yplus

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Lapses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.326 lapse force month

Description: month in which mass lapse occurs

Help: This can be used to overide lapse rates, and

make the policy remain in force until this month,

and then lapse in this month.

Set value to 0 to ignore this and use normal

lapse assumptions.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Lapses

Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 600

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.327 lapse force rate

Description: Forced lapse rate

Help: This can be used to overide lapse rates, and

make the policy remain in force until this month,

and then lapse in this month.

Set value to 0 to ignore this and use normal

lapse assumptions.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Lapses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.328 lapse_force_rate_input

Description: Forced lapse rate for input variable

Help: This can be used to overide lapse rates, and

make the policy remain in force until this month,

and then lapse in this month.

Set value to 0 to ignore this and use normal

lapse assumptions.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Lapses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.329 lapse rate im

Description: Lookup value code variable

Help:

Modified On: 1/15/2023 2:57:55 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Lapses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

Description: Lookup value code variable

Help:

Modified On: 1/15/2023 2:58:12 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Lapses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.331 lapse rates

Description: Lapse rates (%)

Help: Lapse rates (as %) for each policy year. Item

zero is not used. Read from table in

set_exp/res_variables() if read_from_tables =

Y.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Lapses

Variable Type: Floating Point Array

Default Value: 0 0 0 0 Length: 120 Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.332 lapse_rider_other

Description: lapse rate for other riders

Help:

Modified On: 1/15/2023 3:01:49 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Lapses

Variable Type: Floating Point Number

Default Value: 0 Length: 0 Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.333 lapse rider profil dth

Description: lapse rate for profil dth rider

Help:

Modified On: 1/15/2023 2:55:58 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Lapses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.334 lapse rider profil dth array

Description: Additional profil rider lapse rates (%)

Help: Additional rider lapse rates (as %) forprofil

riders

Modified On: 1/15/2023 2:57:24 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Lapses

Variable Type: Floating Point Array

Default Value: 0 0 0 0 Length: 25 Number of Decimals: 4

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Lapses
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

Description: Lookup value code variable

Help:

Modified On: 12/14/2022 1:15:59 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Lapses
Variable Type: Character
Default Value: 0

Length: 0

Number of Decimals: 1

Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.337 masslaps tbl

Description: Lapse rate table by flag_code for solvency

scenario

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Lapses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Name (numeric)

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.338 prem_termination_rate

Description: Prem Termination Rate

Help:

Modified On: 9/5/2019 11:01:48 AM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Category: Lapses

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.339 pup_sv_charge_rebate_temp

Description: Annual rebate percentage for PUP's SV penalty

Help: For Profil there is an annual reduction to the

initial surrender charge that was applied to policies made paid-up in a given policy year. The reduction is applied for each year the PUP

does not surrender.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Lapses

Variable Type: Floating Point Number

Default Value: 1

Length: 1
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 10

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.340 secondary_lapse_mult

Description: secondary lapse multier

Help: For "achrayut le'chaim" product.

The percetage of normal lapses experienced by

polices that continue after a claim.

(the first claim is from the group that allows the

policy to continue at 50%).

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Lapses

Variable Type: Floating Point Number

Default Value: 100
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.341 sur val method

Description: Method to calculate SV

Help: Different ways to calculate surrender values:

"sv_table" = SV looked up from table.

"perc_res" = SV is a percentage of reserve.

Percentages come from array variable

"sur_val_perc" by policy year. This method is useful for old products that do not have tables

available.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Lapses
Variable Type: Character

Default Value: sv_table
Length: 8
Number of Decimals: 0

Choice List: perc_res,sv_table

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.342 sur_val_perc

Description: SV percentages (%) - of RESERVE

Help: This is the array of surrender value factors as a

percentage of reserve. Array is by policy year.

Used when the surrender value method (sur_val_method) is set to "perc_res".
Useful for old products when SV table not

available.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Lapses

Variable Type: Floating Point Array

Default Value: 100
Length: 116
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.343 cat risk

Description: Margin for catastrophe scenario for risk (death)

Help:

Modified On: 12/6/2020 4:36:44 PM (UTC+02:00)

Modified By: CLAL-INS\NinaB

Category: Margins

Variable Type: Floating Point Number

Default Value: 0.0015
Length: 0
Number of Decimals: 5

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.344 margin_1styr_clms_add

Description: Additional 1st year claims margin percent

Help: only added if margin add = Y

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Margins

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 2
Choice List: Y,N

Character Type: Not Applicable

Valid Range From: -100
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.345 margin add

Modified On:

Description: Add margins to assumptions?
Help: Add margins to assumptions Y/N?

(expenses, mortality and lapses) eg tor DAC Recoverability test. 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Margins
Variable Type: Character

Default Value: <*tables_path*>\tables\mortality\profil_decreme

nt_rates.tbl

Length: 59
Number of Decimals: 0

Choice List: Y,N,<*tables_path*>\tables\mortality\profil_decr

ement rates.tbl

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: (

5.3.3.1.346 margin_add_asset

Description: Add asset shock?

Help: Add margins to assumptions Y/N?

(expenses, mortality and lapses) eg tor DAC Recoverability test.

Modified On: 7/4/2021 4:45:45 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Margins
Variable Type: Character

Default Value:

Length:

59

Number of Decimals:

Choice List:

Character Type:

N

Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.347 margin_add_cat

Description: Apply catastrophe scenario?

Help: Add margins to assumptions Y/N ?

(expenses, mortality and lapses) eg tor DAC Recoverability test.

Modified On: 12/8/2020 10:01:57 AM (UTC+02:00)

Modified By: CLAL-INS\NinaB

Category: Margins
Variable Type: Character

Default Value:

Length:

Number of Decimals:

Choice List:

Character Type:

Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.348 margin_add_discount

Description: Add margins to disscounts and management

fees?

Help: Add margins to assumptions Y/N ?

(expenses, mortality and lapses) eg tor DAC Recoverability test. 12/7/2020 2:13:15 PM (UTC+02:00)

Modified On: 12/7/2020 2:13:15 PM (U⁻ Modified By: CLAL-INS\NinaB

Category: Margins

Variable Type: Margins
Character

Default Value:

Length:

Number of Decimals:

Choice List:

Y,N

Character Type:

Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.349 margin_ann_mort_pc

Description: mortality for annunity margin percent

Help: only added if margin_add = Y

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Margins

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 2
Choice List: Y,N

Character Type: Not Applicable

Valid Range From: -100
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.350 margin_annuity_nottakeup

Description: not take up annuity margin

Help: only added if dacrec_add_margins = Y

add this margin / e_x per mil to mortality rate

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Margins

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 2
Choice List: Y,N

Character Type: Not Applicable

Valid Range From: -50
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.351 margin_annuity_takeup

Description: take up annuity margin

Help: only added if dacrec_add_margins = Y

add this margin / e_x per mil to mortality rate

Modified On: 6/3/2020 10:03:58 AM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Category: Margins

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 2
Choice List: Y,N

Character Type: Not Applicable

Valid Range From: -100
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.352 margin_claim_cost_mitriya

Description: claims margin percent for claims cost for phi

mitriya

Help: only added if margin_add = Y

Modified On: 11/30/2022 5:25:45 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Margins

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 2
Choice List: Y,N

Character Type: Not Applicable

Valid Range From: -100
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.353 margin_claims

Description: claims margin percent

Help: only added if margin_add = Y
Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Margins

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 2
Choice List: Y,N

Character Type: Not Applicable

Valid Range From: -100
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.354 margin_dnp

Description: Prmium Charge margin

Help: Percentage of premium allocated to units. Each

element in the array applies for the number of months specified in the alloc_rate_period array. The first element in the array should be entered for period 1. Read in from alloc rate tbl in

set_common_variables.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Margins

Variable Type: Floating Point Number

Default Value: 0
Length: 16
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 150

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.355 margin dnz

Description: management fee replacement

Help: Percentage of premium allocated to units. Each

element in the array applies for the number of months specified in the alloc_rate_period array. The first element in the array should be entered for period 1. Read in from alloc rate tbl in

set common variables.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Margins

Variable Type: Floating Point Number

Default Value: 0
Length: 16
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 150

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.356 margin exp ini fix

Description: fixed initial expense margin percent
Help: only added if margin_add = Y

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Margins

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 2
Choice List: Y.N

Character Type: Not Applicable

Valid Range From: -100
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.357 margin_exp_ini_pc

Description: premium initial expense margin percent

Help: only added if margin_add = Y

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Margins

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 2
Choice List: Y,N

Character Type: Not Applicable

Valid Range From: -100
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.358 margin exp ren fix

Description: fixed renewal expense margin percent

Help: only added if margin_add = Y

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Margins

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 2
Choice List: Y.N

Character Type: Not Applicable

Valid Range From: -100
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.359 margin exp ren pc

Description: premium renewal expense margin percent

Help: only added if margin_add = Y
Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Margins

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 2
Choice List: Y,N

Character Type: Not Applicable

Valid Range From: -100
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.360 margin_lapses

Description: lapse margin percent

Help: only added if margin_add = Y

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Margins

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 2
Choice List: Y,N

Character Type: Not Applicable

Valid Range From: -100
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.361 margin_mort_pc

Description: mortality margin percent

Help: only added if margin_add = Y

Modified On: 8/27/2010 4:00:50 PM (LTC+03)

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Margins

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 2

Choice List: Y,N

Character Type: Not Applicable

Valid Range From: -100
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.362 margin_recover

Description: recovery rate margin percent for phi & ltc

Help: only added if margin add = Y

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Margins

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 2
Choice List: Y,N

Character Type: Not Applicable

Valid Range From: -100
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.363 margin res ann mort fac

Description: mortality factor for reserves - margin percent

Help: only added if margin_add = Y

Modified On: 5/16/2023 4:01:46 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Margins

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 2
Choice List: Y,N

Character Type: Not Applicable

Valid Range From: -100
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.364 ann_death

Description: Status death of insured (1=death, 0=live)
Help: policy annuity factor of not guaranteed period

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Mortality

Variable Type: Integer Number

Default Value: 0
Length: 6
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 9000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.365 col_dth

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Mortality

Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.366 death_rate_row_key

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Mortality

Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.367 death rates

Description:

Help:

Death rate table

Death-only rate table

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Mortality
Variable Type: Character

Default Value:

Length: 61
Number of Decimals: 6

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.368 death rates res

Description: Death rate table for reserves

Help: Death-only rate table

Modified On: 3/13/2023 1:42:39 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Mortality
Variable Type: Character
Default Value: AMF80
Length: 45
Number of Decimals: 0
Choice List: AMF80

Choice List: AMF80
Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order:

5.3.3.1.369 death_rates_res_tbl

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.370 death rates tbl

Description: Lookup code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.371 decrem mult

Description: decrement multiplier (%)

Help: Percentage of basic decrement table

(experience basis). Always read from table

in set_categ_variables() according to

sex/smoker status.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Mortality

Variable Type: Floating Point Number

Default Value: 100
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.372 decrem_mult_res

Description: decrement multiplier (%) for reserves

Help: Percentage of basic decrement table

(experience basis). Always read from table

in set_categ_variables() according to

sex/smoker status.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Mortality

Variable Type: Floating Point Number

Default Value: 100
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.373 decrem_mult_set_temp

Description: Decrement multipliers assumption set

Help: Decrement multipliers assumption set. If

read_from_table = "Y", then this variable will be

set in set_common_variables.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Mortality
Variable Type: Character
Default Value: default
Length: 7
Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.374 decrem_mult_tbl

Description: decrement multiplier table (%)

Help: Percentage of basic decrement table used for

all lives, split by M/F, S/NS/A, occupation class

and product type.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Name (numeric)

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.375 decrem_rate_key

Description: decrement rate lookup code

Help: This is the index value to lookup claims cost

rates in the claim_cost.tbl. It is looked up initially from the tarif_spec.tbl but may be modified by policy data from the file.

Modified On: 7/28/2021 12:09:58 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Mortality
Variable Type: Character
Default Value: MN
Length: 22
Number of Decimals: 0
Choice List: MN
Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.376 decrem_rate_key_rider

Description: Decrement rate lookup code for profil riders

Help: This is the index value to lookup claims cost

rates in the claim_cost.tbl. It is looked up initially from the tarif_spec.tbl but may be modified by policy data from the file.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Mortality
Variable Type: Character

Default Value: 0
Length: 550
Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.377 decrem_rates

Description: Decrement rate table

Help: Decrement table by sex and smoker status.

If set_by_prodcode = "Y" then table is set based on "risk_rates" in prod assumptions

table.

Not relevant for health and death benefits.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.378 decrem rates check

Description: Decrement rate table

Help: Decrement table by sex and smoker status.

If set_by_prodcode = "Y" then table is set based on "risk_rates" in prod assumptions

table.

Not relevant for health and death benefits.

Modified On: 7/27/2021 11:55:54 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.379 decrem_rates_res

Description: Decrement rate table for reserves

Help: Decrement table used for net-premium reserve

calculation.

If set_by_prodcode = "Y" then this is set to the same table as the experience decrements

(decrem_rates).

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.380 decrem rates uw

Description: Decrement rate table by UWYear

Help: Decrement table by sex and smoker status.

If set_by_prodcode = "Y" then table is set based on "risk_rates" in prod assumptions

table.

Not relevant for health and death benefits.

Modified On: 3/19/2024 5:29:29 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.381 decrem_rates_uw_res

Description:

Decrement rate table by UWYear for reserves

Help:

Decrement table by sex and smoker status.

If set_by_prodcode = "Y" then table is set based on "risk_rates" in prod assumptions

table.

Not relevant for health and death benefits.

Modified On: 3/19/2024 7:29:12 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.382 decrements apply

Description: Apply decrements?

Help: Do you want in force columns decremented by

survivorship?

Only set to N for testing/debugging model.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Mortality
Variable Type: Character

Default Value: Y
Length: 1
Number of Decimals: 0
Choice List: Y,N
Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.383 dth_res_row

Description: Lookup value code vatriable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Mortality
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1

Choice List: 0

Standard Character Type:

Valid Range From: Valid Range To:

Table Format: **Default Row Numbers**

Set Value in Input Manager:

Not Shared Variable Sharing:

Category Order: 0

5.3.3.1.384 free_inv_row_key

Description: Lookup value code variable

Help:

8/27/2019 4:00:59 PM (UTC+03:00) Modified On:

Modified By: CLAL-INS\ninab

Category: Mortality

Variable Type: Integer Number

Default Value: 10 Length: Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: **Default Row Numbers**

Set Value in Input Manager:

Not Shared Variable Sharing:

Category Order:

5.3.3.1.385 mort addn res

Description: Mortality rate addition (per mille) for reserves Help:

Percentage of basic mortality table used for reserve calculation. Always read from table

in set_categ_variables() according to

sex/smoker status.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0 0 Length: Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: **Default Row Numbers** Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.386 mort_mult

Description: Mortality multiplier (%)

Help: Percentage of basic mortality table used

(experience basis). Always read from table

in set_categ_variables() according to

sex/smoker status .

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Mortality

Variable Type: Floating Point Number

Default Value: 100
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.387 mort mult col key

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Mortality
Variable Type: Character

Default Value: 0
Length: 20
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

5.3.3.1.388 mort_mult_end_age

Description: Age from which to phase-out mortality multiplier

Help:

At this age the mortality multiplier will gradually be phased-out (i.e. approach 100%) until the

omega-age, so that at very old ages the base mortality table is less effected by the multiplier.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Mortality

Variable Type: Integer Number

Default Value: 75
Length: 1
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 75

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.389 mort_mult_res

Description: Mortality multiplier (%) for reserves

Help: Percentage of basic mortality table used for

reserve calculation. Always read from table

in set_categ_variables() according to

sex/smoker status .

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Mortality

Variable Type: Floating Point Number

Default Value: 100
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order:

5.3.3.1.390 mort_mult_tbl

Description: Mortality multiplier table (%)

Help: Percentage of basic mortality table used for all

lives, split by M/F, S/NS/A, and product type.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Name (numeric)

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.391 mort sel status

Description: Select mortality (Y/N)

Help: Indicator to determine whether to use select or

ultimate experience mortality rates.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Mortality
Variable Type: Character

Default Value:

Length:

Number of Decimals:

Choice List:

Character Type:

N

N

1

Y,N

Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.392 mort_year_tt

Description: Lookup value code variable

Help:

Modified On: 7/26/2021 2:40:47 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Mortality

Variable Type: Integer Number

Default Value: 0

Length: 20
Number of Decimals: 0
Choice List: 0

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 3000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.393 omega_age

Description: Maximum age possible in projection

Help: Highest age in mortality table. Internal logic

variable calculated in calculated.

Modified On: 1/11/2023 11:18:09 AM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 120

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.394 omega_age_cmi

Description: Maximum age possible in CMI table

Help: Highest age in mortality table. Internal logic

variable calculated in calc_omega_age. 1/11/2023 11:18:39 AM (UTC+02:00)

Modified On: 1/11/2023 11:18:39 AM (UTC+0

Modified By: CLAL-INS\ahuvaa

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 120

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order:

5.3.3.1.395 omega_age_dec

Description: Maximum age possible in projection

Help: Highest age in mortality table. Internal logic

variable calculated in calc_omega_age.

Modified On: 1/11/2023 11:18:53 AM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 120

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.396 omega_age_w

Description: Maximum age possible in projection

Help: Highest age in mortality table. Internal logic

variable calculated in calc_omega_age.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Mortality

Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 120

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

5.3.3.1.397 puv_09_tbl

Description: Composite external source

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.398 puv_col_key

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Mortality
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.399 puv_row_key

Description: Lookup value code variable

Help:

Modified On: 7/28/2021 1:24:47 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Mortality
Variable Type: Character

Default Value: 18_10
Length: 10
Number of Decimals: 1
Choice List: 18_10
Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.400 select_periods

Description: mortality select periods

Help:

Modified On: 1/9/2023 11:51:19 AM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.401 survive_tbl

Description: survival factors table for extra annuity reserve

Help: nPx factors (survival to age 65) used for extra annuity reserve, based on adjusted table 4a1

as calculated in Clal's annuity reserve

spreadsheet.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1

Table Format: Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.402 sv_09_tbl

Description: Composite external source

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.403 sv_09_tbl_check

Description: Composite external source

Help:

Modified On: 10/17/2021 4:45:49 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Mortality

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

5.3.3.1.404 sv_col_key

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Mortality
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.405 sv_row_key

Description: Lookup value code variable

Help:

Modified On: 7/28/2021 12:36:51 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Mortality
Variable Type: Character
Default Value: 18_10
Length: 10
Number of Decimals: 1
Choice List: 18_10
Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.406 age_at_issue

Description: Age at issue Help: Age at issue.

Can be age last in years (e.g. 35) or exact age

using decimals (e.g. 35.75).

This age is rounded down in the model which is based on age last, incrementing by one year

each policy anniversary.

Modified On: 5/5/2021 9:31:40 AM (UTC+03:00)

Modified By: CLAL-INS\joshm Category: Policy Details

Variable Type: Floating Point Number

Default Value: 30
Length: 0
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 120

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.407 agency_no

Description: Osek Merushe number

Help: Agency Number (Osek merushe number)
Modified On: 3/15/2020 11:22:34 AM (UTC+02:00)

Modified By: CLAL-INS\joshm Category: Policy Details

Variable Type: Floating Point Number

Default Value: 0
Length: 20
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 9999999999

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.408 agent_no

Description: agent number and company letter (used as

unique index)

Help: Agent number and first letter of company (a/c)

to get unique agent index

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details Variable Type: Character

Default Value: 0 Length: 10 Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.409 ben class

Description: benefit class

Help: used to determine the type of claim

dth = death claim,

ddth =

dd = dread disease,

tpd = total & permanent disability, adb = accidental death benefit,

health,

phi = permanent health insurance,

Itc = long term care, fib = family income benefit

mortg = mortgage

Modified On: 6/10/2021 12:21:04 PM (UTC+03:00)

Modified By: CLAL-INS\joshm Category: Policy Details
Variable Type: Character
Default Value: tpd

Length: 6
Number of Decimals: 0

Choice List: dth,ddth,dd,tpd,adb,fib,ltc,mortg,phi,health,adif,

profil

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.410 ben_class_input

Description: benefit class

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details

Variable Type: Character
Default Value: tpd
Length: 6
Number of Decimals: 1

Choice List: dth,ddth,dd,tpd,adb,fib,ltc,mortg,phi,health,adif,

profil

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.411 benefit_term

Description: Policy benefit term (months)

Help: The original policy (benefit) term in integral

months calculated from the issue date to the

date of policy expiry.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Policy Details
Variable Type: Integer Number

Default Value: 120
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 1
Valid Range To: 1200

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.412 benefit term input

Description: Policy benefit term (months)

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details Variable Type: Integer Number

Default Value: 120
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1200

Table Format: Default Row Numbers

Set Value in Input Manager: Al

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.413 benefits curr

Description:

Number of covers at valuation date

Help:

Current number of in force benefits at the

valuation date.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details

Variable Type: Floating Point Number

Default Value: 1
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 1000000

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.414 benefits curr rider

Description: benefits_curr_rider

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Policy Details
Variable Type: Floating Point Array

Default Value: 1 1
Length: 25
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 10000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

5.3.3.1.415 bonus_inforce

Description: bonus inforce at valuation date

Help: variable linked with the reserve field from the

inforce file

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 100000000

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.416 channel

Description: channel הפצה ערוץ

Help:

Modified On: 1/9/2022 12:30:57 PM (UTC+02:00)

Modified By: CLAL-INS\joshm
Category: Policy Details
Variable Type: Character
Default Value: tpd
Length: 6

Number of Decimals: 1

Choice List: dth,ddth,dd,tpd,adb,fib,ltc,mortg,phi,health,adif,

profil

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.417 chilean

Description: Chilean indicator for gimla

Help: Can be age last in years (e.g. 35) or exact age

using decimals (e.g. 35.75).

This age is rounded down in the model which is based on age last, incrementing by one year

each policy anniversary.

Modified On: 5/15/2023 1:48:43 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa Category: Policy Details
Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 120

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.418 commence_period_w

Description: Period t in which policy commences

Help: Calculated in startup column.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Policy Details
Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: -600
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.419 company

Description: company name

Help: Use for looking up expenses from expense

table.

Only used when lookup by prodcode = "Y"

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Policy Details
Variable Type: Character
Default Value: clal
Length: 5
Number of Decimals: 0

Choice List: clal,hasne,briut
Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.420 elapsed months

Description: Elapsed months at valn date

Help: The number of months, rounded up, from policy

inception to the valuation date.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.421 elapsed_months_extra

Description: months between tarif & origi date

Help: The number of months, rounded up, from policy

inception to the valuation date.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1200

Table Format: Default Row Numbers

Set Value in Input Manager: Al

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.422 error code

Description: error_code for data record

Help: 1 and 3 are OK

any other number will cause the record to be

skipped

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Policy Details
Variable Type: Integer Number

Default Value: 1
Length: 1
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.423 error msg

Description: error message for skipped records

Help:

Modified On: 10/3/2021 8:54:19 AM (UTC+03:00)

Modified By:
Category:
Policy Details
Variable Type:
Character
Default Value:
Length:
Number of Decimals:

CLAL-INS\joshm
Policy Details
Character
no_error
60
0

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.424 fix term curr age above max add months

Description: term fix for private/self-emp and res_kitzba<=0 -

if current age is above the max then add how

many years

Help: Maximum cumulative claim inflation allowed (for

health products). As a percentage.

For example, 200 means that the claims inflation will stop if and when the claims reach

double the base assumption.

Modified On: 11/29/2021 7:39:56 AM (UTC+02:00)

Modified By: CLAL-INS\joshm Category: Policy Details

Variable Type: Floating Point Number

Default Value: 80
Length: 1
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.425 fix term curr age max

Description: term fix for private/self-emp and res kitzba<=0 -

if current age is below

Help: Maximum cumulative claim inflation allowed (for

health products). As a percentage.

For example, 200 means that the claims inflation will stop if and when the claims reach

double the base assumption.

Modified On: 11/29/2021 7:37:09 AM (UTC+02:00)

Modified By: CLAL-INS\joshm Category: Policy Details

Variable Type: Floating Point Number

Default Value: 80
Length: 1
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.426 fix_term_end_age_limit

Description: term fix for private/self-emp and res_kitzba<=0 -

if end age is above

Help: Maximum cumulative claim inflation allowed (for

health products). As a percentage.

For example, 200 means that the claims inflation will stop if and when the claims reach

double the base assumption.

Modified On: 11/29/2021 7:34:46 AM (UTC+02:00)

Modified By: CLAL-INS\joshm Category: Policy Details

Variable Type: Floating Point Number

Default Value: 80
Length: 1
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.427 fix_term_new_end_age

Description: term fix for private/self-emp and res_kitzba<=0 -

set end age

Help: Maximum cumulative claim inflation allowed (for

health products). As a percentage.

For example, 200 means that the claims inflation will stop if and when the claims reach

double the base assumption.

Modified On: 11/29/2021 7:37:23 AM (UTC+02:00)

Modified By: CLAL-INS\joshm Category: Policy Details

Variable Type: Floating Point Number

Default Value: 80
Length: 1
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.428 flag code

Description: flag_code for data record

Help: Code is used to identify special covers/policies.

Not used in the model but passed to the output

file for summing the results.

1= LTC NB05 old tarif

2= PHI mifali NB05 alone - added to old policy 3= PHI mifali NB05 alone - other new policy 4= PHI mifali NB05 alone - w/o other new policy

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Policy Details
Variable Type: Integer Number

Default Value: 0
Length: 1
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.429 foreign_id

Description: Foreign / citizen insured identification

Help: Can be age last in years (e.g. 35) or exact age

using decimals (e.g. 35.75).

This age is rounded down in the model which is based on age last, incrementing by one year

each policy anniversary.

Modified On: 5/15/2023 1:49:05 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa
Category: Policy Details
Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 120

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.430 fund

Description: Fund (Keren)

Help: 10 = yod,..., 1 = aleph

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details Variable Type: Character Default Value: 52

Length: 2
Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.431 fund group

Description: Fund Group

Help:

Modified On: 1/13/2020 1:25:18 PM (UTC+02:00)

Modified By: CLAL-INS\NinaB
Category: Policy Details
Variable Type: Character

Default Value: P
Length: 2
Number of Decimals: 1
Choice List: P

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

5.3.3.1.432 **fund_name_temp**

Description: Fund name for model (for tables)

Help: Model fund name/number, based on actual fund

number from data file

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Policy Details
Variable Type: Character
Default Value: 52

Length: 2
Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.433 fund yesodi

Description: Fund (Keren) for main policy Help: 10 = yod,..., 1 = aleph

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details
Variable Type: Character
Default Value: 52

Length: 2
Number of Decimals: 0

Choice List:

Character Type: Standard Valid Range From: 0

Valid Range To: 200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.434 fundgroup_manual

Description: fundgroup_manual

Help:

Modified On: 8/5/2024 3:35:58 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Policy Details
Variable Type: Character

Default Value: P
Length: 2
Number of Decimals: 1
Choice List: P

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.435 health_occ_perc_min

Description: Minimum extra health loading on qx

Help: Extra health loading on premium and death

rates according to occupation.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details

Variable Type: Floating Point Number

Default Value: -20
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: -100
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.436 health_perc

Description: Extra loadings (health only) on premium/qx Help: Extra premium loading (percent of basic

premium) for the policy for health conditions.
Will only be added to the premium if variable
health_occ_in_prem is set to N. Regardless this

should also be used for the claim assumption.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details

Variable Type: Floating Point Number

Default Value: 0 Length: 0 Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 999

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.437 ind ifrs

Description: IFRS indicator Help: 1 = NB

Help: 1 = NBF = Female

Modified On: 6/24/2024 3:30:53 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt Category: Policy Details Variable Type: Integer Number

Default Value: 0
Length: 1
Number of Decimals: 0
Choice List: M

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.438 ind_nb

Description: New business indicator

Help: 1 = NBF = Female

Modified On: 4/11/2024 3:33:52 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt Category: Policy Details Variable Type: Integer Number

Default Value: 0
Length: 1
Number of Decimals: 0
Choice List: M

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.439 index_row_num

Description: record number
Help: index row num

Modified On: 8/4/2021 10:54:32 AM (UTC+03:00)

Modified By: CLAL-INS\joshm Category: Policy Details
Variable Type: Character

Default Value: Y
Length: 50
Number of Decimals: 0
Choice List: Y

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.440 insured

Description: insured

Help: for health covers

1 = main 0 = child 2 = partner

(used for looking up correct premium rate for

non-family tarifs)

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Policy Details
Variable Type: Integer Number

Default Value: 1
Length: 1
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 2

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

5.3.3.1.441 insured id

Description: ID no for main insured Help: ID no for main insured

Modified On: 8/19/2021 8:14:49 AM (UTC+03:00)

Modified By: CLAL-INS\joshm Category: Policy Details

Variable Type: Floating Point Number

Default Value: 1
Length: 1
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 1

Valid Range To: 9999999999

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.442 maasik no

Description: Maasik number for managers policies
Help: Agency Number (Osek merushe number)
Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details Variable Type: Character

Default Value: 0
Length: 13
Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.443 matan_period_w

Description: Period t in which reached matan term

Help: Calculated in startup column.

Matan period only relevant for benefit class

"MATAN".

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details

Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 10000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.444 matan term

Description: Matan term in months

Help: Matan term in months after which the sum

insured is reduced by 0.02*matan_term. 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details Variable Type: Integer Number

Default Value: 60
Length: 0
Number of Decimals: 0

Choice List:

Modified On:

Character Type: Not Applicable

Valid Range From: 1

Valid Range To: 100000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.445 maturity_period_ann

Description: Period t in which annuity ends up Help: Calculated in startup column.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Policy Details
Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 600

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.446 maturity period w

Description: Period t in which policy matures
Help: Calculated in startup column.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Policy Details
Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 600

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.447 mortg pmt fix w

Description: Monthly level mortgage payback

Help: Monthly level mortgage payback. Calculated in

startup.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 10000000000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

5.3.3.1.448 movement flag

Description: Type of Movement (death, surrender, no

change...)

Help: Code is used to identify special covers/policies.

Not used in the model but passed to the output

file for summing the results.

1= LTC NB05 old tarif

2= PHI mifali NB05 alone - added to old policy 3= PHI mifali NB05 alone - other new policy 4= PHI mifali NB05 alone - w/o other new policy

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Policy Details
Variable Type: Integer Number

Default Value: 0
Length: 1
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.449 movement month

Description: Calender month of movement

Help: Code is used to identify special covers/policies.

Not used in the model but passed to the output

file for summing the results.

1= LTC NB05 old tarif

2= PHI mifali NB05 alone - added to old policy 3= PHI mifali NB05 alone - other new policy 4= PHI mifali NB05 alone - w/o other new policy

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Policy Details
Variable Type: Integer Number

Default Value: 0
Length: 1
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 12

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.450 movement_status

Description: Movement Status (IF, NB, PU, NC...)

Help: Code is used to identify special covers/policies.

Not used in the model but passed to the output

file for summing the results.

1= LTC NB05 old tarif

2= PHI mifali NB05 alone - added to old policy 3= PHI mifali NB05 alone - other new policy 4= PHI mifali NB05 alone - w/o other new policy

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Policy Details
Variable Type: Character

Default Value: 0
Length: 2
Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.451 occ_key

Description: Occupational key

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details Variable Type: Character

Default Value: 3
Length: 1
Number of Decimals: 1
Choice List: 1,2,3
Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

5.3.3.1.452 occ perc

Description: Extra loadings (occupation only) on premium/qx

Help: Extra premium loading (percent of basic

premium) for the policy for occupation. Will only be added to the premium if variable

health_occ_in_prem is set to N. Regardless this should also be used for the claim assumption.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 999

Table Format: Default Row Numbers

Set Value in Input Manager: Al

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.453 paid_up

Description: Paid up at valuation date? (Y/N/G/C)

Help:

Modified On: 5/9/2022 9:00:27 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa Category: Policy Details Variable Type: Character

Default Value:

Length:

Number of Decimals:

Choice List:

N,Y

Character Type:

N

Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.454 paid_up_input

Description: Paid up at valuation date? (Y/N/G/C)

Help:

Modified On: 5/9/2022 9:00:46 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa Category: Policy Details
Variable Type: Character

Default Value: N
Length: 1
Number of Decimals: 1
Choice List: N,Y

Valid Range From:

Valid Range To:

Character Type:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.455 par_nonpar

Description: Participating or Non-Participating?

Help: P = Participating business (i.e. with-profit)

Standard

N = Non participating business (i.e. non-profit)

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Policy Details
Variable Type: Character

Default Value:

Length:

Number of Decimals:

Choice List:

Character Type:

Valid Range From:

P

1

Number of Decimals:

0

Standard

0

Valid Range From: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.456 par_nonpar_yesodi

Description: Participating or Non-Participating? for yesodi

policy

Help: P = Participating business (i.e. with-profit)

N = Non participating business (i.e. non-profit)

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details Variable Type: Character

Default Value: P Length: 1 Number of Decimals:0Choice List:P,NCharacter Type:Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.457 pol_index

Description: Policy index (Pol No, Company, Tarif, Tafkid)

Help: Policy Index to uniquely identify cover. Made from Policy number, Company code, Tarif and

Tafkid

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By:
Category:
Policy Details
Variable Type:
Character
Default Value:
Unique:
Companies:
Character
O00001
Character
O00001
Companies:
Character
O00001
Character
O00001
Companies:
Character
O00001
Character
Character
O00001
Character
Cha

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.458 pol_number

Description: Policy number Help: Policy number.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By:
Category:
Policy Details
Variable Type:
Character
Default Value:
Unique:
Companies:
Character
O00001
Companies:
0

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: ΑII

Not Shared Variable Sharing:

Category Order: 0

5.3.3.1.459 policies_curr

Description: Number of policies inforce at valn date Help:

Current number of in force policies at the

valuation date.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details

Variable Type: Floating Point Number

Default Value: 1 0 Length: 0 Number of Decimals:

Choice List:

Character Type: Not Applicable

Valid Range From: 0

1000000 Valid Range To:

Table Format: **Default Row Numbers**

Set Value in Input Manager: ΑII

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.460 policy_type

Description: policy type

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details Variable Type: Character Default Value: Managers

13 Length: Number of Decimals: 0

Choice List: managers, private, selfemp, health, Managers

Standard Character Type:

Valid Range From: 0 Valid Range To:

Table Format: **Default Row Numbers**

Set Value in Input Manager: ΑII

Not Shared Variable Sharing:

Category Order: 0

5.3.3.1.461 policy_type_orig

Description: original policy type Help:

Modified On: 12/26/2022 1:41:14 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa Category: Policy Details Variable Type: Character Default Value: Managers

Length: 13
Number of Decimals: 0

Choice List: managers,private,selfemp,health,Managers

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.462 prem_profil_rider_type

Description: prem type (0=out, 1=in) per profil rider
Help: prem type (0=out, 1=in) per profil rider.
Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Policy Details
Variable Type: Floating Point Array

Default Value: 0
Length: 26
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.463 prem_term

Description: Policy premium term (months)
Help: Original premium term in months.

Set in set_other_variables.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details
Variable Type: Integer Number

Default Value: 120 Length: 0 Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1200

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.464 prem term input

Description: Policy premium term (months)

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Policy Details
Variable Type: Integer Number

Default Value: 120
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.465 prod code

Description: Product code

Help: read in from inforce file

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By:
Category:
Policy Details
Variable Type:
Character
Default Value:
Length:
Number of Decimals:

CLAL-INS\ninab
Policy Details
Character
392
Length:
15

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.466 prod_code_adif_extra_prem

Description: Product code for reading extra prem tables for

adif

Help: read in from inforce file

Modified On: 8/12/2021 9:43:03 AM (UTC+03:00)

Modified By: CLAL-INS\joshm Category: Policy Details Variable Type: Character Default Value: none Length: 15 Number of Decimals: 0 Choice List: none Standard Character Type:

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.467 prod_code_adif_extra_prem_temp

Description: Product code for reading extra prem tables for

adif

Help: read in from inforce file

Modified On: 8/12/2021 4:29:34 PM (UTC+03:00)

Modified By: CLAL-INS\joshm Category: Policy Details Variable Type: Character Default Value: none Length: 15 Number of Decimals: 0 Choice List: none Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.468 prod code base

Description: Product code of the base (Yessodi) cover

Help: read in from inforce file

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By:
Category:
Policy Details
Variable Type:
Character
Default Value:
Length:
Number of Decimals:

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Policy Details
Character
prof00
15

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.469 prod_code_old

Description: Product code - old - from tarif spec

Help: read in from inforce file

Modified On: 8/16/2021 2:36:59 PM (UTC+03:00)

Standard

Modified By:
Category:
Policy Details
Variable Type:
Character
Default Value:
none
Length:
15
Number of Decimals:
Choice List:

CLAL-INS\joshm
Character
none
0

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Character Type:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.470 prod_code_rider

Description: prod_code_rider

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By:
Category:
Policy Details
Variable Type:
Character
Default Value:
rsapir1-p
Length:
15

Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 99999

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.471 prod code rider floating

Description: prod_code_rider for interface

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Policy Details
Variable Type: Floating Point Array

Default Value: 1 1
Length: 25
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 10000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.472 prod_group_yessodi_portfolio

Description: ifrs product definition

Help:

Modified On: 6/8/2023 2:21:07 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa Category: Policy Details
Variable Type: Character
Default Value: tpd

Length: 6
Number of Decimals: 1

Choice List: dth,ddth,dd,tpd,adb,fib,ltc,mortg,phi,health,adif,

profil

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

5.3.3.1.473 prod_yr_w

Description: production year, used for DAC issues

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Policy Details
Variable Type: Integer Number

Default Value: 2004
Length: 1
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 2004

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.474 profil_dyn_child_sa

Description: Profil dynamic model-Amount of SA for child Help: prem type (0=out, 1=in) per profil rider.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details Variable Type: Integer Array

Default Value: 0
Length: 26
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 8

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.475 profil_dyn_child_term

Description: Profil dynamic model-Risk reduction term for

child

Help: prem type (0=out, 1=in) per profil rider.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Policy Details
Variable Type: Integer Array

Default Value: 0
Length: 26
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 8

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.476 profil dyn spous sa

Description: Profil dynamic model-Amount of SA for spous

Help: prem type (0=out, 1=in) per profil rider.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details Variable Type: Integer Array

Default Value: 0
Length: 26
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 8

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.477 profil_dyn_spous_term

Description: Profil dynamic model-Risk reduction term for

spous

Help: prem type (0=out, 1=in) per profil rider.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Policy Details
Variable Type: Integer Array

Default Value: 0
Length: 26
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 8

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.478 profil dynamic

Description: Profil dynamic model (0=No, 1=Yes)
Help: prem type (0=out, 1=in) per profil rider.
Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Policy Details
Variable Type: Integer Array

Default Value: 0
Length: 26
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 8

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.479 profil_rider_type

Description: death benefit type (1=fixed, 2=extra) SI
Help: prem type (0=out, 1=in) per profil rider.
Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Policy Details
Variable Type: Integer Array

Default Value: 0
Length: 26
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 8

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

5.3.3.1.480 prog_name

Description: prog_name field from data file

Help: Used for classifying reserves between health

and life

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By:
Category:
Policy Details
Variable Type:
Character
Default Value:
BLANK
Length:
12
Number of Decimals:
0

Choice List: ADIF,BRIUT,KLASI,BLANK

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.481 rider_sex

Description: Sex of profil rider cover

Help: M = MaleF = Female

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Policy Details
Variable Type: Floating Point Array

Default Value: 1
Length: 25
Number of Decimals: 0
Choice List: M,F,A

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

Description: rider_type_w

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details

Variable Type: Integer Array

Default Value: 0
Length: 25
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 10

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

Description: Number of riders for current Profil policy

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Policy Details
Variable Type: Integer Number

Default Value: 0
Length: 1
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 25

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.484 riders count w input

Description: Number of riders for current Profil policy

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 25

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order:

5.3.3.1.485 risk_code

Description: product code of risk rider with Meitav

(Managers)

Help: This is the product code of the risk rider (Sapir)

that shares the total premium with the policy

(Meitav Managers) being run.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By:
Category:
Policy Details
Variable Type:
Character
Default Value:
394
Length:
20
Number of Decimals:
0

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.486 risk si

Description: sum insured of risk rider with Meitav

(Managers)

Help: This is the sum insured of the risk rider (Sapir)

that shares the total premium with the policy

(Meitav Managers) being run.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 20000000

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.487 saving_max_perc

Description: Maximum saving percentage allowed

Help: Used for adjusting basic savings when there is

a fixed premium

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details

Variable Type: Floating Point Number

Default Value: 100
Length: 1
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.488 saving_perc

Description: Total percentage of savings (basic + extra)

Help: For Adif: Total percentage of savings (basic +

pure savings).

For Profil: Percetage of total premium allocated to pure savings (rest goes to normal product).

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details

Variable Type: Floating Point Number

Default Value: 80
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

5.3.3.1.489 sex

Description: Sex
Help: M = Male
F = Female

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details Variable Type: Character

Default Value: M
Length: 1
Number of Decimals: 0
Choice List: M,F,A
Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.490 smoker_stat

Description: Smoker status

Help: Smoker status under which the policy has been

issued:

N = Non smoker, S = Smoker or A = Aggregate

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Policy Details
Variable Type: Character

Default Value:

Length:

Number of Decimals:

Choice List:

N,S,A

Character Type:

Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.491 submodel

Description: sub model to run

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Policy Details
Variable Type: Character
Default Value: TERM
Length: 4

Number of Decimals: 0

Choice List: TERM,TRAD,UNIT

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: Al

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.492 sum ins curr

Description: Sum Insured at valn date

Help: Current sum assured at the valuation date. For mortgage this is the original sum-insured.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details

Variable Type: Floating Point Number

Default Value: 100000
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 100000000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.493 sum_ins_curr_input

Description: Sum Insured at valn date

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details

Variable Type: Floating Point Number

Default Value: 100000
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0

100000000 Valid Range To:

Table Format: **Default Row Numbers**

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order:

5.3.3.1.494 sum ins curr rider

Description: sum insured (average) for each rider - array

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details Variable Type: Floating Point Array

Default Value: 0 25 Length: Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 10000000

Table Format: **Default Row Numbers**

Set Value in Input Manager:

Variable Sharing: Not Shared

0 Category Order:

5.3.3.1.495 surr_value_if

Description: Surrender value at valn date from IF file Help:

units at valuation date (accumulation/reserve)

per 1 benefit

8/5/2024 4:12:43 PM (UTC+03:00) Modified On:

Modified By: CLAL-INS\arikt Category: Policy Details

Variable Type: Floating Point Number

Default Value: 0 0 Length: 2 Number of Decimals:

Choice List:

Character Type: Not Applicable Valid Range From: -9999999 Valid Range To: 9999999

Table Format: **Default Row Numbers**

Set Value in Input Manager:

Not Shared Variable Sharing:

5.3.3.1.496 surr_value_if_input

Description: Surrender value at valn date from IF file - input Help:

units at valuation date (accumulation/reserve)

per 1 benefit

8/5/2024 4:09:28 PM (UTC+03:00) Modified On:

Modified By: CLAL-INS\arikt Category: **Policy Details**

Variable Type: Floating Point Number

Default Value: 0 0 Length: 2 Number of Decimals:

Choice List:

Character Type: Not Applicable Valid Range From: -9999999 9999999 Valid Range To:

Table Format: **Default Row Numbers**

Set Value in Input Manager: ΑII

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.497 tarif

Description: tarif

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details Variable Type: Integer Number

Default Value: Length: 1 Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: **Default Row Numbers**

Set Value in Input Manager: ΑII

Not Shared Variable Sharing:

Category Order:

5.3.3.1.498 tarif_rider

Description: tarif per profil rider

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details

Variable Type: Integer Array

Default Value: 6300 6301 0 0 0 0 0 0 0 0 0

Length: 26
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 99999

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.499 temp_agency_no

Description: Lookup value code variable

Help:

Modified On: 2/13/2022 10:06:26 AM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa Category: Policy Details Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.500 unit value accum

Description: Accum unit balance at valn date

Help: units at valuation date (accumulation/reserve)

per 1 benefit

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable Valid Range From: -9999999

Valid Range To: 99999999

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.501 unit value accum input

Description: Accum unit balance at valn date

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 3

Choice List:

Character Type: Not Applicable
Valid Range From: -99999999
Valid Range To: 99999999

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.502 unit value savings

Description: Savings unit balance at valn date

Help: units at valuation date (extra savings account)

per 1 benefit

Modified On: 8/5/2024 4:12:20 PM (UTC+03:00)

Modified By: CLAL-INS\arikt Category: Policy Details

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable
Valid Range From: -9999999
Valid Range To: 99999999

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

5.3.3.1.503 unit_value_savings_input

Description: Savings unit balance at valn date - input

Help: units at valuation date (extra savings account)

per 1 benefit

Modified On: 8/5/2024 4:08:04 PM (UTC+03:00)

Modified By: CLAL-INS\arikt Category: Policy Details

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable
Valid Range From: -9999999
Valid Range To: 99999999

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.504 year_prod

Description: Year of policy production (prod-date)

Help: For reporting purposes only

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Policy Details
Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.505 year_start

Description: Year of policy start (origi-date)
Help: For reporting purposes only

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Policy Details

Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.506 adjust prem and claims temp

Description: Adjust premium and claims by actual-calculated

premium ratio

Help:

This is used primarily for PHI, to indicate if the

model should increase premiums and claims based on the ratio between the premium in the data and the calculated (standard) premium. It is a way of modeling occupation classes, health/hobby/occupation additions etc.

This variable is set in "set_by_prodcode" from

the prod_spec_term table.

"N" - do not adjust

"Y" - adjust

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium Variable Type: Character

Default Value:

Length:

Number of Decimals:

Choice List:

Character Type:

N

N

1

Y,N

Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.507 alloc_limit

Description: alloc_limit for maximum premium charge as

shekel amount

Help: Percentage of premium allocated to units. Each

> element in the array applies for the number of months specified in the alloc rate period array. The first element in the array should be entered

for period 1. Read in from alloc_rate_tbl in

set_common_variables.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium

Variable Type: Floating Point Number

Default Value: 16 Length: Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 150 Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Not Shared Variable Sharing:

Category Order:

5.3.3.1.508 allocation_limit_amount

Description: maximum DNP - monthly - shekel

Help: Percentage of premium allocated to units. Each

element in the array applies for the number of months specified in the alloc rate period array. The first element in the array should be entered for period 1. Read in from alloc_rate_tbl in

set_common_variables.

Modified On: 2/13/2025 4:01:21 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Premium

Variable Type: Floating Point Number

Default Value: Length: 16 Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To: 150

Default Row Numbers Table Format:

Set Value in Input Manager: ΑII

Variable Sharing: Not Shared

5.3.3.1.509 aloc kafuy

Description: 1-DNP as today

Help: Percentage of premium allocated to units. Each

element in the array applies for the number of months specified in the alloc_rate_period array. The first element in the array should be entered for period 1. Read in from alloc rate tbl in

set_common_variables.

Modified On: 2/13/2025 3:50:53 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Premium

Variable Type: Floating Point Number

Default Value: 0
Length: 16
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 150

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.510 amla_hishtatfut_dnp

Description: Commission as % of DNP - With no VAT

Help: Percentage of premium allocated to units. Each

element in the array applies for the number of months specified in the alloc_rate_period array. The first element in the array should be entered for period 1. Read in from alloc_rate_tbl in

set_common_variables.

Modified On: 2/13/2025 3:54:02 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Premium

Variable Type: Floating Point Number

Default Value: 0
Length: 16
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 150

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

5.3.3.1.511 base

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium

Variable Type: Floating Point Number

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.512 basic_perc_w

Description: basic premium proportion

Help: basic premium proportion : calculated in

startup from saving_perc

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Premium

Variable Type: Floating Point Number

Default Value: 50
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.513 charge_rate_tt_col

Description: Lookup value

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium

Variable Type: Character

Default Value: 0
Length: 22
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.514 charge_rate_tt_row

Description: Lookup value

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium Variable Type: Character

Default Value: 0
Length: 22
Number of Decimals: 2

Choice List:

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.515 col name

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To: Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.516 health_occ_in_prem

Description: Health loading included in prem_curr?
Help: Health loading already included in current

premium ? (occupational)

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium Variable Type: Character

Default Value: Y
Length: 1
Number of Decimals: 0
Choice List: Y,N
Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.517 health occ perc

Description: Extra loadings (health+occ) on premium/qx Help: No longer taken from data. Calculated in se

No longer taken from data. Calculated in set other variables as the sum of health and occupational loadings, each of which are taken

from the data.

Extra premium loading (percent of basic premium) for the policy for health conditions and occupation. Will only be added to the premium if variable health_occ_in_prem is set to N. Regardless this should also be used for

the claim assumption.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

0 Valid Range From: 999 Valid Range To:

Table Format: **Default Row Numbers**

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order:

5.3.3.1.518 imp manual alloc rate term dt

Description: DNP benefit final date

Help: Percentage of premium allocated to units. Each

element in the array applies for the number of months specified in the alloc_rate_period array. The first element in the array should be entered

for period 1. Read in from alloc rate tbl in

set_common_variables.

Modified On: 3/10/2025 12:17:11 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Premium Variable Type: Character

Default Value: 0 16 Length: Number of Decimals: 2 Choice List: 0

Character Type: Standard

Valid Range From: 0 150 Valid Range To:

Default Row Numbers Table Format:

Set Value in Input Manager: ΑII

Not Shared Variable Sharing:

Category Order: 0

5.3.3.1.519 mod_load_in_prem

Description: modal loading already includ. in prem? Help:

if N: add to prem curr in the startup if "level

prem"

if prem_lookup = "Y", modal loading will always be added to the premium and this value will not

affect it.

Set in startup based on "prog_name" (Klasi -

"N", others - "Y")

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Premium Category: Variable Type: Character

Default Value: Υ Length: 1 Number of Decimals: 0

Choice List: Y,N
Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.520 netprem_max

Description: Max net prem as % gross prem

Help: The net premium is limited to this percentage of

the gross (office) premium.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium

Variable Type: Floating Point Number

Default Value: 1000
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100000

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.521 pol_fee_disc_perc

Description: Policy fee discount as a percentage

Help: discount applied to polict fee.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: -100
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.522 pol_number_i

Description: Pol Number I

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium Variable Type: Character

Default Value: 0
Length: 15
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.523 policy_fee_if

Description: Annual policy fee

Help: Policy fee set from pol_fee_tbl in the startup if

"read_from_tables"=Y

add to prem_curr in the startup if "level prem"

add to prem_if _b if YRT

Modified On: 5/2/2022 9:01:58 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Premium

Variable Type: Floating Point Number

Default Value: 10
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 10000000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.524 policy fee input

Description: Annual policy fee

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium

Variable Type: Floating Point Number

Default Value: 10
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To: 1000000

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.525 prate_level_tbl

Description: premium rate table by entry age + term

Help: level premium rate rate table.

looked up by age and benefit-term (NOT

premium-term)

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 10000

Table Format: Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.526 prem code

Description: premium lookup code

Help: This is the index value to llokup premium rates

in the prem_rates table (consolidated premium rates table). It is looked up from the prem-code-

map table)

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium

Variable Type: Character

Default Value: 0
Length: 22
Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.527 prem_code_map_tbl

Description: health prem_code_map_tbl

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Row Name (string)

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.528 prem code rider

Description: premium lookup code for profil riders

Help: This is the index value to llokup premium rates

in the prem_rates table (consolidated premium rates table). It is looked up from the prem-code-

map table)

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium Variable Type: Character

Default Value: 0
Length: 550
Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.529 prem_code_test

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium Variable Type: Character

Default Value: 0
Length: 20
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.530 prem_code_test_temp

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

5.3.3.1.531 prem_curr

Description: Annual premium at valn date

Help: Current in force annual premium per policy at

the valuation date.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium

Variable Type: Floating Point Number

Default Value: 2000
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 10000000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.532 prem_curr_changed

Description: Prem Curr Changed

Help: indicate if the prem curr parameter has been

set to a calculated value

Modified On: 10/5/2021 11:54:31 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Premium
Variable Type: Character

Default Value:

Length:

Number of Decimals:

Choice List:

N,Y

Character Type:

Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.533 prem_curr_if

Description: Annual gross premium from data file

Help: Current in force annual premium per policy at

the valuation date.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium

Variable Type: Floating Point Number

Default Value: 2000
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 10000000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.534 prem curr input

Description: Annual premium at valn date

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium

Variable Type: Floating Point Number

Default Value: 2000
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 10000000

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.535 prem_curr_rider

Description: annual premium (current) for each rider - array

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Premium

Variable Type: Floating Point Array

Default Value: 0
Length: 25
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 100000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.536 prem freq

Description: Premium frequency

Help: Frequency of premium payment:

1 - Annually2 - Half-Yearly4 - Quarterly12 - Monthly

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Premium
Variable Type: Integer Number

Default Value: 12
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 1
Valid Range To: 12

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.537 prem_if_rates

Description: Lookup code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.538 prem_init_different_temp

Description: Does initial prem differ from the renew.

Help: Is the initial premium different from the renewal

premium?

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium
Variable Type: Character
Default Value: N

Default Value:

Length:

Number of Decimals:

Choice List:

Character Type:

N

N

1

V,N

Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.539 prem_key_temp

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium Variable Type: Character

Default Value: 0
Length: 20
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.540 prem_lookup_freq_temp

Description: premium lookup frequency

Help: read in from setup_tbl and set in

set_categ_variables()
0 = level premium

1 = YRT

3,5,10 = sub terms, indicates whenever

premium rate changes.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium

Variable Type: Integer Number

Default Value: 3
Length: 1
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.541 prem_lookup_freq_w

Description: Frequency of charge rate renewal for Profil

Riders

Help: Premium lookup frequency in years (eg 1 or 5)

for charge or premium rates. Used for Profil riders (elements 0 to 24) and/or Meitav risk

rider (element 25).

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Premium
Variable Type: Integer Array

Default Value: 1
Length: 26
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 1
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.542 prem_lookup_temp

Description: premium lookup (Y/N)

Help: read in from setup_tbl and set in

set_categ_variables()
"N" = level premium

"Y" = YRT or stepped premium rates 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium Variable Type: Character

Default Value:

Length:

Number of Decimals:

Choice List:

Character Type:

Valid Range From:

N

1

Y,N

Standard

0

Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Modified On:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.543 prem_newtag_prop

Description: Proportion of new premiums allocated to

tagmulim

Help:

Modified On: 8/31/2020 2:34:20 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Category: Premium

Variable Type: Floating Point Number

Default Value: 55
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.544 prem orig

Description: Original premium at valn date

Help: Current in force annual premium per policy at

the valuation date.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium

Variable Type: Floating Point Number

Default Value: 2000
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 10000000

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.545 prem rate col

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.546 prem rate multiplier rider

Description: percentage; modifies premium rate for profil

riders

Help: Applied to premium rate for profil riders. Taken

from the tarif spec table or set to 100%.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium

Variable Type: Floating Point Array

Default Value: 1
Length: 26
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 2

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.547 prem_rate_row

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium
Variable Type: Integer Number

Default Value: 0
Length: 10
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.548 prem_rate_scale_w

Description: scale of Prem rate in table

Help: scale of prem rate in premium rate table i.e per

benefit of a 1000 SI or 100 SI

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium

Variable Type: Integer Number

Default Value: 1000
Length: 1
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 1
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.549 prem_rates_charge_tt

Description: Lookup code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.550 prem rates extra prm

Description: Composite external source

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.551 prem_rates_risk

Description: Premium rate table for risk rider

Help: Premium rate set in set_common_variables(),

per 1000 SA.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium

Variable Type: Character

Default Value:

Length: 41
Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 10000

Table Format: Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.552 prem_rates_risk_1

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.553 prem rates risk 2

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To: Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.554 prem_rates_risk_rider

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.555 prem rates row

Description: Lookup code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Premium
Variable Type: Integer Number

Default Value: 0
Length: 10

Number of Decimals: 0
Choice List: 0

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.556 prem_rates_series

Description: prem_rates external source Series End

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium
Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.557 prem rates si

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.558 prem_rates_si_col

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.559 prem_rates_si_row

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.560 prem_rates_temp_series_end

Description: Lookup value code variable

Help:

Modified On: 1/6/2022 5:29:54 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Premium

Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.561 prem_risk_max

Description: max perc of prem for extra SI (Sapir)

Help:

Modified On: 5/2/2022 11:35:39 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Premium

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.562 premium rate w

Description: level premium rate per mille

Help: Premium rate (level) set in startup, per 1000

SA.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium

Variable Type: Floating Point Number

Default Value: 10
Length: 0
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 10000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.563 product_alloc_rate_percent

Description: 1-DNP for product (with no benefits)

Help: Percentage of premium allocated to units. Each

element in the array applies for the number of months specified in the alloc_rate_period array. The first element in the array should be entered for period 1. Read in from allocarate, the in

for period 1. Read in from alloc_rate_tbl in set_common_variables.

Modified On: 2/13/2025 3:52:50 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Premium

Variable Type: Floating Point Number

Default Value: 0
Length: 16
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 150

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.564 promil

Description: promil from data file

Help: Used for free covers (zero premium) as criteria

to skip or project the cover.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 10000000

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.565 reinsur_simple_perc

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.566 reinsur simple rider cost

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.567 reinsure_simple_cost

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Premium

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order:

5.3.3.1.568 sal inc set

Description: Lookup value code variable wildcard

Help:

Modified On: 12/29/2022 4:18:00 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Premium Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1

Choice List:

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.569 sal inc set rider

Description: Lookup value code variable wildcard

Help:

Modified On: 12/29/2022 4:57:05 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Premium
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1

Choice List:

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.570 sal tbl

Description: Salary increase table

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Row Name (string)

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.571 tagmulim_perc

Description: Percentage of tagmulim from premium (after

allocation)

Help: For New Profil: Percentage of tagmulim

premium (including basic + pure savings) from the total premium (including basic + pure savings), both after allocation rates.

This is only used in order to limit the amount of

risk riders, based on the variable

rider_max_perc

For PRIVATE policies this is not used. 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium

Variable Type: Floating Point Number

Default Value: 54.56
Length: 0
Number of Decimals: 2

Choice List:

Modified On:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.572 term_in_profil

Description: term_in_profil indicator for sal_inc lookup

Help:

Modified On: 5/16/2023 11:56:20 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Premium Variable Type: Character

Default Value:

Length:

Number of Decimals:

Choice List:

Character Type:

Valid Range From:

N

1

Y,N

Standard

0

Table Format: Default Row Numbers

Set Value in Input Manager:

Valid Range To:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.573 use_tarif_spec_prems

Description: Use tarif spec table for premium rates

Help: Apply SA multipliers (claims cost table)? (use

0

for LTC, PHI, etc. claims)

If set_by_prodcode = "Y" then looked up from

prod specs table.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium
Variable Type: Character
Default Value: N

Length: 1
Number of Decimals: 0
Choice List: Y,N
Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.574 use_tarif_spec_prems_rider

Description: Use tarif spec table for premium rates for profil

riders

Help: Indicator for premium rates table to use for

profil riders.

If =1, then use the tarif spec table premium

rates lookup,

If =0, then use the product code level premium

lookup.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium
Variable Type: Integer Array

Default Value: 0
Length: 25
Number of Decimals: 0
Choice List: Y,N

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.575 discount_perc_rider

Description: charge discount (%) for each rider - array

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Premium discounts
Variable Type: Floating Point Array

Default Value: 0
Length: 25
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 10000000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.576 discount period rider

Description: charge discount period (months) for each rider -

array

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium discounts
Variable Type: Floating Point Array

Default Value: 0
Length: 25
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 10000000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.577 prem disc dcr1 m

Description: Premium descreasing discount1 months
Help: Month from policy start when Premium

discount period ends.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Premium discounts
Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.578 prem_disc_dcr1_r

Description: Premium descreasing discount1 rate

Help: Premium discount as a percentage of premium

. Applied during a defined period (see

Prem_disc_month).

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Premium discounts
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: -100
Valid Range To: 500

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.579 prem_disc_dcr2_m

Description: Premium descreasing discount2 months
Help: Month from policy start when Premium

discount period ends.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Premium discounts
Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.580 prem_disc_dcr2_r

Description: Premium descreasing discount2 rate

Help: Premium discount as a percentage of premium

. Applied during a defined period (see

Prem_disc_month).

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Premium discounts
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: -100
Valid Range To: 500

Table Format: Default Row Numbers

Set Value in Input Manager: ΑII

Not Shared Variable Sharing:

Category Order: 0

5.3.3.1.581 prem_disc_dcr3_m

Description: Premium descreasing discount3 months Help:

Month from policy start when Premium

discount period ends.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Premium discounts Variable Type: Integer Number

Default Value: 0 0 Length: 0 Number of Decimals:

Choice List:

Character Type: Not Applicable

Valid Range From: 0 Valid Range To: 1200

Table Format: **Default Row Numbers**

Set Value in Input Manager: ΑII

Not Shared Variable Sharing:

Category Order: 0

5.3.3.1.582 prem disc dcr3 r

Description: Premium descreasing discount3 rate

Premium discount as a percentage of premium Help:

. Applied during a defined period (see

Prem_disc_month).

8/27/2019 4:00:59 PM (UTC+03:00) Modified On:

Modified By: CLAL-INS\ninab Category: Premium discounts Variable Type: Floating Point Number

Default Value: 0 0 Length: Number of Decimals: 2

Choice List:

Character Type: Not Applicable

-100 Valid Range From: Valid Range To: 500

Table Format: **Default Row Numbers**

Set Value in Input Manager: ΑII

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.583 prem_disc_dcr4_m

Description: Premium descreasing discount4 months Month from policy start when Premium Help:

discount period ends.

8/27/2019 4:00:59 PM (UTC+03:00) Modified On:

Modified By: CLAL-INS\ninab Category: Premium discounts Variable Type: Integer Number

Default Value: 0 0 Length: 0 Number of Decimals:

Choice List:

Character Type: Not Applicable

Valid Range From: 0 1200 Valid Range To:

Table Format: **Default Row Numbers**

Set Value in Input Manager: ΑII

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.584 prem disc dcr4 r

Description: Premium descreasing discount4 rate

Premium discount as a percentage of premium Help:

. Applied during a defined period (see

Prem disc month).

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Premium discounts Category: Variable Type: Floating Point Number

Default Value: Length: 0 Number of Decimals: 2

Choice List:

Character Type: Not Applicable

-100 Valid Range From: Valid Range To: 500

Table Format: **Default Row Numbers**

Set Value in Input Manager: ΑII

Variable Sharing: Not Shared

Category Order:

prem_disc_dcr5_m 5.3.3.1.585

Description: Premium descreasing discount5 months Help:

Month from policy start when Premium

discount period ends.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00) Modified By: CLAL-INS\ninab Category: Premium discounts Variable Type: Integer Number

Default Value: 0 Length: 0 0 Number of Decimals:

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To: 1200

Default Row Numbers Table Format:

Set Value in Input Manager: ΑII

Variable Sharing: Not Shared

Category Order:

5.3.3.1.586 prem disc dcr5 r

Description: Premium descreasing discount5 rate

Premium discount as a percentage of premium Help:

. Applied during a defined period (see

Prem_disc_month).

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Premium discounts Variable Type: Floating Point Number

Default Value: 0 0 Length: 2 Number of Decimals:

Choice List:

Character Type: Not Applicable

-100 Valid Range From: Valid Range To: 500

Table Format: **Default Row Numbers**

Set Value in Input Manager: ΑII

Not Shared Variable Sharing:

0 Category Order:

5.3.3.1.587 prem_disc_month

Description: Premium discount period (last month) Help:

Month from policy start when Premium

discount period ends.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Premium discounts Category: Variable Type: Integer Number

Default Value: 0 0 Length:

Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1200

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

Description: Premium discount period (last month)

Help: Month from policy start when Premium

discount period ends.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Premium discounts
Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1200

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.589 prem_disc_month_2_input

Description: Premium discount period (last month)

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Premium discounts
Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.590 prem_disc_month_input

Description: Premium discount period (last month)

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Premium discounts
Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1200

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.591 prem_disc_perc

Description: Premium discount as a percentage

Help: Premium discount as a percentage of premium

. Applied during a defined period (see

Prem_disc_month).

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Premium discounts
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: -100
Valid Range To: 500

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.592 prem disc perc 2

Description: Premium discount as a percentage

Help: Premium discount as a percentage of premium

. Applied during a defined period (see

Prem_disc_month).

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Premium discounts
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: -100
Valid Range To: 500

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.593 prem_disc_perc_2_input

Description: Premium discount as a percentage

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Premium discounts
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: -100
Valid Range To: 500

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.594 prem_disc_perc_input

Description: Premium discount as a percentage

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Premium discounts
Variable Type: Floating Point Number

Default Value: 0

Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: -100
Valid Range To: 500

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.595 prem_disc_shimur_flag

Description: Use premium discount shimur

Help: Premium discount as a percentage of premium

. Applied during a defined period (see

Prem_disc_month).

Modified On: 2/11/2024 4:56:49 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt
Category: Premium discounts

Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 2
Choice List: 0

Character Type: Standard
Valid Range From: -100
Valid Range To: 500

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.596 prem_disc_shimur_im

Description: Lookup value code variable

Help:

Modified On: 2/11/2024 3:23:26 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt
Category: Premium discounts
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order:

5.3.3.1.597 prem_disc_step

Description: Premium discount decrease type

Help: 0 = no loading

1 = gorem on yesodi

3 = temp discount on all covers in policy4 = permanent discount on all covers in policy

5 = temp discount on specific cover6 = permanent discount on specific cover

other = gorem

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Premium discounts
Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 480

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.598 prem disc step1 m

Description: The 1st step prem discount period
Help: Month from policy start when Premium

discount period and

discount period ends.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Premium discounts
Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1200

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

Description: The 1st step prem discount rate as a

percentage

Help: Premium discount as a percentage of premium

. Applied during a defined period (see

Prem_disc_month).

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Premium discounts
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: -100
Valid Range To: 500

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.600 prem_disc_step2_m

Description: The 2nd step prem discount period
Help: Month from policy start when Premium

discount period ends.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Premium discounts
Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1200

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: (

5.3.3.1.601 prem_disc_step2_r

Description: The 2st step additional prem discount rate

Premium discount as a percentage of premium Help:

. Applied during a defined period (see

Prem_disc_month).

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Premium discounts Variable Type: Floating Point Number

Default Value: 0 Length: 2 Number of Decimals:

Choice List:

Character Type: Not Applicable

Valid Range From: -100 500 Valid Range To:

Table Format: **Default Row Numbers**

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.602 prem disc step3 m

Description: The 3th step prem discount period Help:

Month from policy start when Premium

discount period ends.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Premium discounts Category: Variable Type: Integer Number

Default Value: Length: 0 Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 1200 Valid Range To:

Default Row Numbers Table Format:

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order:

5.3.3.1.603 prem_disc_step3_r

Description: The 3th step additional prem discount rate

Help: Premium discount as a percentage of premium

. Applied during a defined period (see

Prem_disc_month).

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Premium discounts Floating Point Number Variable Type:

Default Value: Length: 0 Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: -100 500 Valid Range To:

Table Format: **Default Row Numbers**

Set Value in Input Manager:

Not Shared Variable Sharing:

0 Category Order:

5.3.3.1.604 prem disc step4 m

Description: The 4th step prem discount period Help:

Month from policy start when Premium

discount period ends.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Premium discounts Variable Type: Integer Number

Default Value: 0 0 Length: Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0 Valid Range To: 1200

Table Format: **Default Row Numbers**

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.605 prem_disc_step4_r

Description: The 4th step additional prem discount rate

Help: Premium discount as a percentage of premium

. Applied during a defined period (see

Prem_disc_month).

8/27/2019 4:00:59 PM (UTC+03:00) Modified On:

Modified By: CLAL-INS\ninab Category: Premium discounts Variable Type: Floating Point Number

Default Value: 0 Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: -100
Valid Range To: 500

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.606 prem_disc_step5_m

Description: The 5th step prem discount period
Help: Month from policy start when Premium

discount period ends.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Premium discounts
Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1200

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

Description: The 5th step additional prem discount rate
Help: Premium discount as a percentage of premium

. Applied during a defined period (see

Prem_disc_month).

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Premium discounts
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: -100

Valid Range To: 500

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.608 prem disc type

Description: Premium discount type

Help: 0 = no loading

1 = gorem on yesodi

3 = temp discount on all covers in policy4 = permanent discount on all covers in policy

5 = temp discount on specific cover6 = permanent discount on specific cover

other = gorem

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Premium discounts
Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 480

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

Description: Premium discount type

Help: 0 = no loading

1 = gorem on yesodi

3 = temp discount on all covers in policy4 = permanent discount on all covers in policy

5 = temp discount on specific cover6 = permanent discount on specific cover

other = gorem

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Premium discounts
Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 480

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.610 adjust_prem_and_claims

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Product Details
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.611 age incidence

Description: code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Product Details
Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.612 alloc_rate

Description: Percentage of Premium allocated to units

Help: Percentage of premium allocated to units. Each

element in the array applies for the number of months specified in the alloc_rate_period array. The first element in the array should be entered for period 1. Board in from allocated the in

for period 1. Read in from alloc_rate_tbl in set common variables.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Product Details
Variable Type: Floating Point Array

Default Value: 0 100
Length: 16
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 150

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.613 alloc rate period

Description: Months applying to alloc rate

Help: Each element in this array relates to a

corresponding element in the alloc_rate array. The elements in this array specify the number of months for which the allocation rates in

alloc_rate apply.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Product Details
Variable Type: Floating Point Array

Default Value: 6 12
Length: 16
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 600

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.614 alloc_rate_row

Description: Lookup value code variable

Help:

8/27/2019 4:00:59 PM (UTC+03:00) Modified On:

Modified By: CLAL-INS\ninab **Product Details** Category: Variable Type: Character

Default Value: 0 10 Length: Number of Decimals: 1 0 Choice List:

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: **Default Row Numbers**

Set Value in Input Manager:

Variable Sharing: Not Shared

0 Category Order:

5.3.3.1.615 alloc_rate_set_temp

Description: Allocation rate assumption set Help:

Allocation rate assumption set. If

read_from_table = "Y", then this variable will be

set in set_common_variables.

8/27/2019 4:00:59 PM (UTC+03:00) Modified On:

Modified By: CLAL-INS\ninab Category: **Product Details** Variable Type: Character Default Value: default Length: 7 0 Number of Decimals:

Choice List:

Standard Character Type:

Valid Range From: 0 0 Valid Range To:

Table Format: **Default Row Numbers**

Set Value in Input Manager:

Not Shared Variable Sharing:

Category Order:

5.3.3.1.616 alloc_rate_stri

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00) Modified By: CLAL-INS\ninab Category: Product Details

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.617 blue white

Description: Lookup value code variable wildcard

Help:

Modified On: 7/14/2024 11:48:51 PM (UTC+03:00)

Modified By: CLAL-INS\arikt Category: Product Details Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.618 bonus

Description: persistency bonus percentages array

Help: Persistency bonus rates by policy month (%).

Always read from table bonus_tbl.

Modified On: 6/27/2022 5:17:10 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa
Category: Product Details
Variable Type: Floating Point Array

Default Value: 0
Length: 1400
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: -100
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.619 bonus tbl

Description: persistency bonus rates table

Help: Table with persistency bonus rates by policy

month.

This is always used (even if read_from_tables =

"N") - looked up by surr_charge_set

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.620 claims_cost_key_start

Description: Lookup value code variable wildcard

Help:

Modified On: 8/10/2021 10:44:38 AM (UTC+03:00)

Modified By: CLAL-INS\joshm
Category: Product Details
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.621 claims_factor

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.622 claims_factor_occ

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Product Details
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.623 claims series year

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.624 claimskey_endage

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.625 claimskey_sex

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.626 dd prop cont

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Product Details
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.627 death_ben_w

Description: death benefit?

Help: read in from setup_tbl and set in

set_categ_variables()
Y = death benefit

N = other benefit (dd, capital disablement etc.)

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details Variable Type: Character

Default Value:

Length:

Number of Decimals:

Choice List:

Character Type:

Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.628 decrem_rates_tbl

Description: Decrem Rates Tbl

Help:

Modified On: 7/28/2021 11:55:53 AM (UTC+03:00)

Modified By: CLAL-INS\joshm
Category: Product Details
Variable Type: Character

Default Value: Itc
Length: 20
Number of Decimals: 1
Choice List: Itc

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.629 dur_down

Description: code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.630 dur up

Description: code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.631 duration_phi

Description: code variable

Help:

Modified On: 12/8/2020 3:27:14 PM (UTC+02:00)

Modified By: CLAL-INS\NinaB
Category: Product Details
Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.632 groups_sol

Description: groups solvency

Help:

Modified On: 3/22/2023 2:02:02 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa Category: Product Details
Variable Type: Character

Default Value: 0
Length: 28
Number of Decimals: 0
Choice List: 0

Character Type: Standard

Valid Range From: 0
Valid Range To: 600

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.633 incidencerate key

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Product Details
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

Description: Lookup value code variable wildcard

Help:

Modified On: 6/12/2022 3:58:05 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa Category: Product Details Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 0
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

5.3.3.1.635 matan perc

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0
Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.636 matan_perc_temp

Description: % of SI paid after x years for MATAN

Help: Percentage of SI in case of survival at mid term

(w) (e.g. at matan benefit)

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details

Variable Type: Floating Point Number

Default Value: 2
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: -100
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.637 phi_type

Description: PHI type(P-Pitzuim, S-WP)

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details

Variable Type: Character

Default Value: P
Length: 1
Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.638 pitzui_shichrur

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.639 prem age

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To: Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.640 prem_factor

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.641 prem inc

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

5.3.3.1.642 prem_init_different

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Product Details
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.643 prem_key_start

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.644 prem_lookup

Description: Lookup code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.645 prem_lookup_freq

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.646 prem_lookup_freq_trad

Description: Lookup value code variable wildcard

Help:

Modified On: 8/29/2021 12:08:48 PM (UTC+03:00)

Modified By: CLAL-INS\joshm
Category: Product Details
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.647 prem_lookup_trad

Description: Lookup code variable wildcard

Help:

Modified On: 8/16/2021 11:05:44 AM (UTC+03:00)

Modified By: CLAL-INS\joshm Category: Product Details Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.648 prem profil type

Description: premium type for profil

Help: defines whether premium for a cover (usually

phi) is "mitoch hahafrashot" (13-7% expenses are deducted) or "michutz" (and expenses not

deducted)

0

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details Variable Type: Character Out Length: 3

Choice List: in,out,mix
Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Number of Decimals:

Variable Sharing: Not Shared

5.3.3.1.649 prem_rates_series_end_im

Description: Prem Rates Im

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.650 prem_series_year

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.651 premkey_endage

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.652 premkey_insured

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Product Details
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.653 premkey_occ

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Product Details
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.654 premkey_sex

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.655 premkey smoker

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.656 prod assumpt key tbl

Description: Product code specific assumptions for

prod_code_base

Help: Product code specific assumptions. Used only if

lookup_by_prodcode = "Y".

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Product Details
Variable Type: Character

Default Value:

Length: 56
Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Row Name (string)

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.657 prod_assumpt_rider_exp_tbl

Description: Product code specific assumptions for

prod_code_rider

Help: Product code specific assumptions. Used only if

lookup_by_prodcode = "Y".

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Product Details
Variable Type: Character

Default Value:

Length: 56
Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Row Name (string)

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.658 prod_assumpt_rider_lapse_tbl

Description: Product code specific assumptions for lapse for

profil riders

Help: Product code specific assumptions. Used only if

lookup_by_prodcode = "Y".

Modified On: 6/15/2022 9:38:26 AM (UTC+03:00)

Modified By: CLAL-INS\joshm Category: Product Details

Variable Type: Character

Default Value: 0
Length: 56
Number of Decimals: 0
Choice List: 0

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Row Name (string)

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.659 prod_spec_risk_code

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.660 prod specs max

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To: Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order:

5.3.3.1.661 prod_specs_rider

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Product Details
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 0
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.662 prod specs rider col

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Product Details
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

5.3.3.1.663 prodcdold

Description: Lookup value code variable wildcard

Help:

Modified On: 8/16/2021 11:39:37 AM (UTC+03:00)

Modified By:
Category:
Product Details
Variable Type:
Character
Default Value:
Length:
Number of Decimals:
Choice List:

CLAL-INS\joshm
Product Details
100
Later
100
110
110
110
110
110
110

Valid Range From:

Valid Range To:

Character Type:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.664 prodcode_par_nonpar

Description: par_nonpar from DWH prodcode table

Help: Product code specific assumptions. Used only if

Standard

lookup_by_prodcode = "Y".

Modified On: 5/8/2022 3:34:53 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa Category: Product Details Variable Type: Character

Default Value: 0
Length: 56
Number of Decimals: 0
Choice List: 0

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Row Name (string)

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.665 **pup_ind**

Description: indicator whether the record is pup

Help:

Modified On: 6/9/2022 12:05:56 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa Category: Product Details

Variable Type: Integer Number

Default Value: 0
Length: 1
Number of Decimals: 0
Choice List: 0

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.666 pup_sv_charge_rebate

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Product Details
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.667 puv tbl

Description: paid up value table by entry age + dur

Help: premium rate set in set_common_variables()

per 1000 SA.

Modified On: 7/28/2021 1:23:00 PM (UTC+03:00)

Modified By: CLAL-INS\joshm
Category: Product Details
Variable Type: Character
Default Value: 1_puv_100

Length: 39
Number of Decimals: 0

Choice List: 1_puv_100
Character Type: Standard

Valid Range From: 0

Valid Range To: 10000

Table Format: Row Name (numeric)

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.668 recovery_rates_col

Description: Lookup value code variable

Help:

Modified On: 7/20/2021 4:51:50 PM (UTC+03:00)

Modified By: CLAL-INS\joshm
Category: Product Details
Variable Type: Integer Number

Default Value: 0
Length: 10
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.669 recovery_rates_row

Description: Lookup value code variable

Help:

Modified On: 7/20/2021 4:52:05 PM (UTC+03:00)

Modified By: CLAL-INS\joshm Category: Product Details Variable Type: Integer Number

Default Value: 0
Length: 10
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

5.3.3.1.670 recovery_rates_tbl

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details

Variable Type: Floating Point Number

Default Value: 0
Length: 10
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.671 reins_key_start

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.672 res basis

Description: Lookup value code variable wildcard

Help:

Modified On: 8/9/2021 8:38:23 AM (UTC+03:00)

Modified By: CLAL-INS\joshm
Category: Product Details
Variable Type: Character

Default Value: No_Reserve

Length: 10
Number of Decimals: 1

Choice List: No_Reserve,Perc_Prem,Net_Prem

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.673 rider_ind

Description: indicator whether the record is a rider

Help:

Modified On: 6/9/2022 11:17:39 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa Category: Product Details Variable Type: Integer Number

Default Value: 0
Length: 1
Number of Decimals: 0
Choice List: 0

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

Description: Max % of (tagmulim) premium allowed to go to

riders

Help: For new Profil.

Max % of (tagmulim) premium, after allocation,

allowed to go to riders' charges.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details

Variable Type: Floating Point Number

Default Value: 35
Length: 1
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

0 Valid Range From: 100 Valid Range To:

Table Format: **Default Row Numbers**

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order:

5.3.3.1.675 rider_tarif_tbl

Description: Table to map Profil Riders Tarif code to product

code

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab **Product Details** Category: Character Variable Type:

Default Value:

45 Length: Number of Decimals: 0

Choice List:

Standard Character Type:

Valid Range From: 0 Valid Range To: 0

Table Format: Row Name (string)

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.676 risk_type_w

Description: Risk Type codes for Profil Riders

Help: Code of risk-type for Profil Riders. Used to lookup relevant decrement rates, and to carry

out certain formulae differently.

1 = dth = regular death

2 = adb3 = tpd4 = dd5 = phi6 = health

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

CLAL-INS\ninab Modified By: Category: **Product Details** Variable Type: Integer Array

Default Value: 25 Length: Number of Decimals: 0

Choice List:

Character Type: Not Applicable Valid Range From: 0
Valid Range To: 10

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.677 savings pol

Description: Identify if prod_code_base is of savings policy

Help:

Modified On: 1/26/2023 11:25:16 PM (UTC+02:00)

Modified By: CLAL-INS\joshm Category: Product Details Variable Type: Character

Default Value:

Length:

Number of Decimals:

Choice List:

N,Y

Character Type:

Y

1

N,Y

Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.678 savings_pol_prod_code

Description: Identify if prod_code is of savings policy

Help:

Modified On: 3/23/2023 11:06:49 AM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa Category: Product Details Variable Type: Character

Default Value:

Length:

Number of Decimals:

Choice List:

N,Y

Character Type:

Y

1

N,Y

Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

5.3.3.1.679 secondary_prop_continue

Description: % of policies changing state
Help: For "achrayut le'chaim" product.

The percentage of polices that continue after a

claim.

If set_by_prodcode = "Y" then this is looked up

from the product specs table.

For LTC - this is the proportion of lapses becoming paid up policies - but It is

automatically set to 100 in set_other_variables.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details

Variable Type: Floating Point Number

Default Value: 50
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.680 si_unit_w

Description: si_unit_w

Help: Number of units sum-insured (eg 1000) to

which charge or premium rates relate. Used for Profil riders (elements 0 to 24) and/or Meitav

risk rider (element 25).

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Product Details
Variable Type: Floating Point Array

Default Value: 1
Length: 26
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 1
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.681 stri

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Product Details
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.682 sum inc

Description: Lookup value code variable wildcard

Help:

Modified On: 5/16/2023 10:07:12 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa Category: Product Details Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.683 suminisba_tbl

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details

Variable Type: Floating Point Number

Default Value: 0
Length: 10
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.684 suminsbas col

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Product Details
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.685 suminsbas_row

Description: Lokup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details Variable Type: Integer Number

Default Value: 0
Length: 10
Number of Decimals: 0
Choice List: 0

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: **Default Row Numbers**

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order:

5.3.3.1.686 surr chg tbl

Description: Surrender charges table

Help: Contains penalty rates on surrender. Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: **Product Details**

Variable Type: Floating Point Number

Default Value: 0 0 Length: Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0 Valid Range To:

Row Numbers Table Format:

Set Value in Input Manager: ΑII

Variable Sharing: Not Shared

Category Order:

5.3.3.1.687 sv tbl

Description: surrender value table by entry age + dur Help:

premium rate set in set_common_variables()

per 1000 SA.

Modified On: 7/28/2021 12:33:13 PM (UTC+03:00)

Modified By: CLAL-INS\joshm **Product Details** Category: Variable Type: Character Default Value: 1 100 39 Length: Number of Decimals: 0 1_100 Choice List: Standard Character Type:

0 Valid Range From: Valid Range To: 10000

Table Format: Row Name (numeric)

Set Value in Input Manager:

Variable Sharing: Not Shared

5.3.3.1.688 tarif_spec_row_key

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Product Details
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0
Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.689 waiting period modeled

Description: Lookup value code variable wildcard

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.690 zillmer_pr_tbl

Description: Zillmer rates table (% of premium)

Help: Table of zillmer premium rates by policy type

and dac purpose (book or taxe). Set for the 10

first policy years (= 0 after).

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Name (numeric)

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.691 prem_term_original

Description: Prem Term Original

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Profitability Measures
Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.692 comm prof re

Description: Reinsurance profit commission (%)

Help: Reinsurance profit commission expressed as a

% of reins. profit. if"read_from_table"=Y: read

from comm_ren-tbl in startup

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Reinsurance

Variable Type: Floating Point Number

Default Value: 2
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.693 comm ren re

Description: Reinsurance Renewal commission (%)

Help: Reinsurance Renewal commission expressed

as a % of reins. premium income.

read from table in set_common_variable

Modified On: 8/22/2021 3:04:51 PM (UTC+03:00)

Modified By: CLAL-INS\joshm
Category: Reinsurance
Variable Type: Floating Point Array

Default Value: 50
Length: 150
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.694 exp_re_nom

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Reinsurance
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

5.3.3.1.695 expense_re_nom_temp

Description: Nominal reins. exp. as % of premium

Help: Nominal reinsurance expenses as a % of reinsurance premium. Loaded from comm

renewal table in set comm variables

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Reinsurance

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.696 interest rein

Description: int rate paid to reinsurer on reserve

Help: Annual investment income rate .

Set in set_exp_variables from int_rates_tbl. if

"read_from_tables" =Y

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Reinsurance

Variable Type: Floating Point Number

Default Value: 1
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.697 prem_per_unit_si_re

Description: Extra premium per unit SI - reinsurance

Help: Additional reinsurance premium per unit sum

insured. Product addition and not policy specific, i.e. if RFT its value overridden from

table.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Reinsurance

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 8

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 1000000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.698 prem_rates_re

Description: rein premium rates

Help:

Modified On: 7/22/2021 9:48:13 AM (UTC+03:00)

Modified By: CLAL-INS\joshm Category: Reinsurance

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.699 prem re bw

Description: reinsurance premium rates row lookup - bw

Help: This is the index value to lookup claims cost

rates in the claim_cost.tbl. It is looked up initially from the tarif_spec.tbl but may be modified by policy data from the file.

Modified On: 7/15/2024 1:03:11 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Reinsurance Variable Type: Character

Default Value: 0
Length: 22
Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.700 prem re endage

Description: reinsurance premium rates row lookup - end

ago

Help: This is the index value to lookup claims cost

rates in the claim_cost.tbl. It is looked up initially from the tarif_spec.tbl but may be modified by policy data from the file.

Modified On: 6/19/2024 12:26:40 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt Category: Reinsurance Variable Type: Character

Default Value: 0
Length: 22
Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.701 prem_re_occ

Description: reinsurance premium rates row lookup - occ

Help: This is the index value to lookup claims cost rates in the claim_cost.tbl. It is looked up

rates in the claim_cost.tbl. It is looked up initially from the tarif_spec.tbl but may be modified by policy data from the file.

Modified On: 6/19/2024 12:26:17 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt Category: Reinsurance Variable Type: Character

Default Value: 0
Length: 22
Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.702 prem_re_row_key

Description: reinsurance premium rates row lookup code

Help:

This is the index value to lookup claims cost rates in the claim_cost.tbl. It is looked up

initially from the tarif_spec.tbl but may be modified by policy data from the file.

Modified On: 7/22/2021 9:50:42 AM (UTC+03:00)

Modified By: CLAL-INS\joshm
Category: Reinsurance
Variable Type: Character

Default Value: 0
Length: 22
Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.703 prem_re_sex

Description: reinsurance premium rates row lookup - sex

Help: This is the index value to lookup claims cost rates in the claim_cost.tbl. It is looked up

0

initially from the tarif_spec.tbl but may be modified by policy data from the file.

6/19/2024 2:21:33 PM (UTC+03:00)

Modified On: 6/19/2024 2:21:33 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt Category: Reinsurance Variable Type: Character Default Value: default Length: 22

Number of Decimals:

Choice List: default
Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.704 prem_re_wp

Description: reinsurance premium rates row lookup - wp

Help:

This is the index value to lookup claims cost

rates in the claim_cost.tbl. It is looked up initially from the tarif_spec.tbl but may be modified by policy data from the file.

Modified On: 7/15/2024 1:03:38 PM (UTC+03:00)

Modified By: CLAL-INS\arikt Category: Reinsurance Variable Type: Character

Default Value: 0
Length: 22
Number of Decimals: 0

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.705 re clm rein pc

Description: percent of retained claim reinsured
Help: percentage of retained claim reinsured.
Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Reinsurance

Variable Type: Floating Point Number

Default Value: 100
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.706 re_clm_rein_pc_rider

Description: percentage reinsured for each Profil rider

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Reinsurance
Variable Type: Floating Point Array

Default Value: 0 0 Use Length: 25 Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.707 re clm ret fix

Description: claim amount retained (monthly)

Help: Fixed amount of each monthly claim retained

(not reinsured). For non-proportional

reinsurance.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Reinsurance

Variable Type: Floating Point Number

Default Value: 100000
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 100000000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Description: percentage cost of reinsured for each Profil

ridei

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Reinsurance

Variable Type: Floating Point Array

Default Value: 0 0 Length: 25 Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.709 re_cost_perc

Description: Percentage cost of reinsurance

Help: Percentage of cost of reinsurance. This is cost above the claims ceded. For example, a value

above the claims ceded. For example, a value of 10 implies that the reinsurance premium is

10% higher than the claims paid by

reinsurance. Used for "simple" reinsurance

method.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Reinsurance

Variable Type: Floating Point Number

Default Value: 0
Length: 1
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.710 re_ratio_w

Description: Ratio reinsured

Help: Proportion reinsured for surplus reinsurance:

calculated in startup

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Reinsurance

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.711 re_type

Description: reinsurance type
Help: OT: Orginial Term

Left side = quota share reinsurance type Right side= Surplus reinsurance type Eg. OT_YRT: the quota share reinsurance premium is on original terms up to the retention,

above YRT premium.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By:
Category:
Reinsurance
Variable Type:
Character
Default Value:
YRT
Length:
9
Number of Decimals:
0
CLAL-INS\ninab
Reinsurance
YRT
9

Choice List: OT,YRT,NONE,OT_OT,OT_YRT,OT_NONE,Y

RT_OT,YRT_YRT,YRT_NONE,NONE_OT,NO

NE_YRT,NONE_NONE,simple,OT_OT

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.712 rein_key_temp

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Reinsurance Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.713 rein set

Description: Reinsurance assumptions

Help: Reinsurance assumptions. If read_from_table =

"Y", then this variable will be set in

set_common_variables.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By:

Category:

Variable Type:

Default Value:

Length:

Number of Decimals:

CLAL-INS\ninab
Reinsurance
Character
default
7

Choice List:

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

Description: Reinsurance assumptions

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Reinsurance Variable Type: Character Default Value: default Length: 7

Number of Decimals: 1

Choice List: default
Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.715 reinsur comm

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Reinsurance Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.716 reinsur comm key

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Reinsurance Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.717 reinsur_kod_tavla

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Reinsurance
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.718 reinsurance

Description: calculate reinsurance ?
Help: Y = calculate reinsurance

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Reinsurance Variable Type: Character

Default Value:

Length:

Number of Decimals:

Choice List:

Character Type:

N

N

1

Y,N

Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.719 retention perc

Description: Retention Ratio

Help: Proportion reinsured for surplus reinsurance :

calculated in startup

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Reinsurance

Variable Type: Floating Point Number

Default Value: 1
Length: 0
Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.720 rider_tarif_row_key

Description: Lookup value code variable

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By:CLAL-INS\ninabCategory:ReinsuranceVariable Type:Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.721 asset shock

Description: Asset Shock (to replace investment income)

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Reserve

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 4

Choice List:

Character Type: Not Applicable

Valid Range From: -100
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.722 err_sar_perc

Description: ERR as % of sum at risk Help: extra-ordinary reserve

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Reserve

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0.3

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.723 err_spread_period

Description: years to build up err

Help: number of years over which err is built up Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Reserve

Variable Type: Floating Point Number

Default Value: 8
Length: 1
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 30

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.724 res_adj_factor

Description: Reserve Adjustment factor

Help:

Modified On: 8/5/2024 3:46:21 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Reserve

Variable Type: Floating Point Number

Default Value: 0
Length: 116
Number of Decimals: 4

Choice List:

Character Type: Not Applicable

Valid Range From: -1
Valid Range To: 1

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.725 res_anndef_lapse

Description: Annual lapse rate for Annuity deficiency

reserves calc.

Help: variable linked with the kitzba reserve field from

the inforce file

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Reserve

Variable Type: Floating Point Number

Default Value: 0.02
Length: 0
Number of Decimals: 4

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 100000000

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.726 res_anndef_lapse_par

Description: Annual lapse rate for Annuity deficiency

reserves calc. - participating

Help: variable linked with the kitzba reserve field from

the inforce file

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Reserve

Variable Type: Floating Point Number

Default Value: 0.02
Length: 0
Number of Decimals: 4

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 100000000

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order:

5.3.3.1.727 res kitzba

Description: reserve from inforce for kitzba

Help: variable linked with the kitzba reserve field from

the inforce file

Modified On: 8/5/2024 4:13:07 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Reserve

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 100000000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.728 res_kitzba_input

Description: reserve from inforce for kitzba - input

Help: variable linked with the kitzba reserve field from

the inforce file

Modified On: 8/5/2024 4:10:16 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Reserve

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 100000000

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.729 res_perc_prem

Description: Percentage of premium for reserve calculation

Help: reserve percentage premium : % of annual

premium in force.

Used in reserve_basic for YRT PREMIUM

(prem_lookup_freq =1.) (as a percentage)

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Reserve

Variable Type: Floating Point Array

Default Value: 0 0 0 0 Length: 121 Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.730 reserve_factors_tbl

Description: reserve factors table

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Reserve

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 0

Table Format: Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order:

5.3.3.1.731 resinforce

Description: reserve from inforce

Help: variable linked with the reserve field from the

inforce file

Modified On: 8/5/2024 4:11:49 PM (UTC+03:00)

Modified By: CLAL-INS\arikt Category: Reserve

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 100000000

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.732 resinforce_input

Description: reserve from inforce - input

Help: variable linked with the reserve field from the

inforce file

Modified On: 8/5/2024 4:10:57 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Reserve

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 100000000

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.733 zeroise res

Description: Zeroise negative reserves (Y/N)?

Help: Y = Individual negative reserves are set to zero

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Reserve Variable Type: Character

Default Value:

Length:

Number of Decimals:

Choice List:

Character Type:

Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.734 zillmer adj factor

Description: Adjustment factor for Zillmer (to scale up to

actuals)

Help: The percentage applied to the DAC tax value

taken from the data file to adjust it according to

the actual DAC held.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Reserve

Variable Type: Floating Point Number

Default Value: 100
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1000

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.735 zillmer_si_book

Description: Zillmer rate (%) for BOOKS

Help: Used in separate column 'zillmer_book' only.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Reserve

Variable Type: Floating Point Number

Default Value: 3
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 10

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.736 zillmer si tax

Description: Zillmer rate (%) for TAX

Help: Used in separate column 'zillmer_tax' only.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Reserve

Variable Type: Floating Point Number

Default Value: 3
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 10

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.737 chetz be ind

Description: Indicator for calculating Investment income

chetz based on BE reserves

Help:

Modified On: 6/15/2023 2:08:57 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Setup Variable Type: Character

Default Value:

Length:

Number of Decimals:

Choice List:

Y,N

Character Type:

Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: Al

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.738 chetz be ind yrs

Description: Calendar year to start calculating chetz based

on IFRS method

Help: Valuation occurs at end of valn_month in

valn_year

Modified On: 6/21/2023 1:43:12 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Setup

Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0

Valid Range To: 10000000

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.739 done_startup_w

Description: Has startup been done?

Help: Has startup run for the first time? Boolean -

default = false .

At the end of startup this variable is set to 'true'. This variable is used in the context of NB modelling (layering), where a formula must be

executed only once and not looped.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:SetupVariable Type:CharacterDefault Value:FALSELength:5Number of Decimals:0

Choice List: False,True Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.740 dump_vars

Description: Output all variables to logfile?

Help: If Y, the program will output all variables to the

log stream after the startup has been executed in each model. NB Should only be set to Y for testing purposes, as will create HUGE amounts of output in the log file when run with a large

policy file.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Setup
Variable Type: Character

Default Value:

Length:

Number of Decimals:

Choice List:

Character Type:

N

N

1

Y,N

Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.741 esg_run

Description: Indicator for ESG run

Help:

Modified On: 5/15/2023 2:05:35 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Setup
Variable Type: Character

Default Value:

Length:

Number of Decimals:

Choice List:

N,Y

Character Type:

N

Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.742 gross_up_historic

Modified On:

Description: Gross up historic survivorship?

Help: Internal logic variable set in startup. Y = In

negative periods gross up survivorship. 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Setup
Variable Type: Character

Default Value:

Length:

Number of Decimals:

Choice List:

Y,N

Character Type:

Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.743 madad current

Description: madad at valuation date

Help: This is the madad at the valuation date.

For Life and Health products:

It is applied to the policy fee to adjust it to the

current madad.

(see madad_base_pol_fee, in Product

Specifications screen)

For Health products only:

It is applied to the risk premium rates and claim

cost tables, to adjust them to the current

madad.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Setup

Variable Type: Floating Point Number

Default Value: 1
Length: 1
Number of Decimals: 4

Choice List:

Character Type: Not Applicable

Valid Range From: 0.0001 Valid Range To: 99999

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.744 pol_type_annuity_tu

Description: Policy type data source - Annuity TU

Help:

Modified On: 12/26/2022 2:23:31 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Setup
Variable Type: Character
Default Value: Current
Length: 8
Number of Decimals: 0

Choice List: Original, Current

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.745 pol type annuity tu switch

Description: Policy type data switch - Annuity TU

Help:

Modified On: 12/26/2022 2:51:49 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Setup
Variable Type: Character
Default Value: Current
Length: 8
Number of Decimals: 0

Choice List: Original, Current

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.746 pol type comm hekef

Description: Policy type data source - Commission Hekef

Help: DAC amortisation type

Modified On: 12/26/2022 2:23:35 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Setup
Variable Type: Character
Default Value: Current
Length: 8
Number of Decimals: 0

Choice List: Original, Current

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.747 pol_type_comm_hekef_switch

Description: Policy type data switch - Commission Hekef

Help: DAC amortisation type

Modified On: 12/26/2022 2:23:03 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Setup
Variable Type: Character
Default Value: Current
Length: 8
Number of Decimals: 0

Choice List: Original, Current

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.748 pol_type_expenses

Description: Policy type data source - Expenses

Help: DAC amortisation type

Modified On: 12/26/2022 2:23:38 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Setup
Variable Type: Character
Default Value: Current
Length: 8
Number of Decimals: 0

Choice List: Original, Current
Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.749 pol_type_expenses_switch

Description: Policy type data switch - Expenses

Help: DAC amortisation type

Modified On: 12/26/2022 2:23:07 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Setup
Variable Type: Character
Default Value: Current
Length: 8
Number of Decimals: 0

Choice List: Original, Current
Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.750 pol type lapse

Description: Policy type data source - Lapse rates

Help: DAC amortisation type

Modified On: 12/26/2022 2:23:41 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Setup
Variable Type: Character
Default Value: Current
Length: 8
Number of Decimals: 0

Choice List: Original, Current
Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.751 pol_type_lapse_rider

Description: Policy type data source - Lapse savings rider

rates

Help: DAC amortisation type

Modified On: 1/19/2023 8:43:07 AM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Setup
Variable Type: Character
Default Value: Current
Length: 8
Number of Decimals: 0

Choice List: Original, Current

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.752 pol_type_lapse_rider_switch

Description: Policy type data switch - Lapse savings riders

rates

Help: DAC amortisation type

Modified On: 1/19/2023 8:42:51 AM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Setup
Variable Type: Character
Default Value: Current
Length: 8
Number of Decimals: 0

Choice List: Original, Current

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.753 pol_type_lapse_switch

Description: Policy type data switch - Lapse rates

Help: DAC amortisation type

Modified On: 12/26/2022 2:23:12 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Setup
Variable Type: Character
Default Value: Current
Length: 8
Number of Decimals: 0

Choice List: Original, Current
Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.754 pol_type_phi_incidence

Description: Policy type data source - PHI Incidence

Help: DAC amortisation type

Modified On: 12/26/2022 2:23:45 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Setup
Variable Type: Character
Default Value: Current
Length: 8
Number of Decimals: 0

Choice List: Original, Current
Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.755 pol_type_phi_incidence_switch

Description: Policy type data switch - PHI Incidence

Help: DAC amortisation type

Modified On: 12/26/2022 2:23:15 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Setup
Variable Type: Character
Default Value: Current
Length: 8
Number of Decimals: 0

Choice List: Original, Current

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.756 pol_type_recovery_rates

Description: Policy type data source - recovery rates

Help: DAC amortisation type

Modified On: 3/13/2023 3:46:37 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Setup
Variable Type: Character
Default Value: Current
Length: 8
Number of Decimals: 0

Choice List: Original, Current

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.757 pol_type_recovery_rates_switch

Description: Policy type data switch - Recovery rates

Help: DAC amortisation type

Modified On: 3/13/2023 3:45:22 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Setup
Variable Type: Character
Default Value: Current
Length: 8
Number of Decimals: 0

Choice List: Original, Current
Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.758 pol_type_sal_inc

Description: Policy type data source - salary increase

Help: DAC amortisation type

Modified On: 12/26/2022 2:23:48 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Setup
Variable Type: Character
Default Value: Current
Length: 8
Number of Decimals: 0

Choice List: Original, Current

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.759 pol_type_sal_inc_switch

Description: Policy type data switch - salary increase

Help: DAC amortisation type

Modified On: 12/26/2022 2:23:19 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Setup
Variable Type: Character
Default Value: Current
Length: 8
Number of Decimals: 0

Choice List: Original, Current

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.760 projection_type

Description: Projection type

Help: Purpose of the projection run:

Valn = perform a valuation for an in force policy New_Bus = used to project future new business

layers

Pricing = project one new business policy Rollup=same as valn but does not reset

valuation date account balances 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Setup
Variable Type: Character
Default Value: Pricing
Length: 7
Number of Decimals: 0

Choice List: Valn,New_Bus,Pricing,Rollup

Character Type: Standard

Valid Range From: 0
Valid Range To: 0

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.761 projection type int

Description: Projection Type for Interest rates

Help:

Modified On:

Modified On: 9/12/2019 11:21:01 AM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Category: Setup
Variable Type: Character
Default Value: Valn
Length: 15
Number of Decimals: 1

Choice List: Valn,Rollup
Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.762 ra_fact_dis_incid_gross

Description: Risk Adjustment Factor Disability Incidence

Scenario (gross)

Help:

Modified On: 3/17/2024 9:44:37 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Setup

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 8

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.763 ra_fact_dis_incid_reins

Description: Risk Adjustment Factor Disability Scenario

(reins) - incidence

Help:

Modified On: 3/17/2024 3:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Setup

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 8

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.764 ra_fact_dis_termi_gross

Description: Risk Adjustment Factor Disability Termination

Scenario (gross)

Help:

Modified On: 3/17/2024 10:05:00 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Setup

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 8

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.765 ra_fact_dis_termi_reins

Description: Risk Adjustment Factor Disability Scenario

(reins) - termination

Help:

Modified On: 3/17/2024 3:44:28 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Setup

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 8

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.766 ra_fact_exp_gross

Description: Risk Adjustment Factor Expenses Scenario

(gross)

Help:

Modified On: 3/22/2023 1:47:39 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Setup

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 8

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

Description: Risk Adjustment Factor Expenses Scenario

(Reins)

Help:

Modified On: 3/17/2024 3:09:06 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Setup

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 8

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.768 ra_fact_lapse_gross

Description: Risk Adjustment Factor lapse Scenario (gross)

Help:

Modified On: 3/22/2023 1:46:59 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Setup

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 8

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.769 ra_fact_lapse_reins

Description: Risk Adjustment Factor lapse Scenario (reins)

Help:

Modified On: 3/17/2024 3:09:41 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Setup

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 8

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

Description: Risk Adjustment Factor Longevity Scenario

(gross)

Help:

Modified On: 3/22/2023 1:48:11 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Setup

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 8

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.771 ra_fact_long_reins

Description: Risk Adjustment Factor Longevity Scenario

(reins)

Help:

Modified On: 3/17/2024 3:13:26 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Setup

Variable Type: Floating Point Number

Default Value: 0
Length: 0

Number of Decimals: 8

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.772 ra fact mort gross

Description: Risk Adjustment Factor Mortality Scenario

(gross)

Help:

Modified On: 3/22/2023 1:48:28 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Setup

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 8

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.773 ra_fact_mort_reins

Description: Risk Adjustment Factor Mortality Scenario

(reins)

Help:

Modified On: 3/17/2024 3:11:49 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Setup

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 8

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

Description: Risk Adjustment Factor take-up Scenario

(gross)

Help:

Modified On: 3/22/2023 1:50:22 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Setup

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 8

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

Description: Risk Adjustment Factor take-up Scenario

(reins)

Help:

Modified On: 3/17/2024 3:14:33 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Setup

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 8

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.776 rollup_period

Description: Period over which rollup is applied

Help:

Modified On: 9/12/2019 10:57:05 AM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Category: Setup

Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 12

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.777 serv units dur

Description: Lookup value code variable

Help:

Modified On: 6/11/2023 10:38:48 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Setup

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.778 start_int_proj_after_rollup

Description: Start Int Proj After Rollup

Help:

Modified On: 9/12/2019 4:04:35 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Category: Setup Variable Type: Character Default Value:

Length:

Number of Decimals:

Choice List:

N,Y

Character Type:

N

Standard

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.779 *valn_month*

Description: Valuation month

Help: Valuation occurs at end of valn_month in

valn_year

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Setup

Variable Type: Integer Number

Default Value: 12
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 1
Valid Range To: 12

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.1.780 valn_year

Description: Valuation year

Help: Valuation occurs at end of valn_month in

valn_year

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Setup

Variable Type: Integer Number

Default Value: 2001
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: 1980

Valid Range To: 2100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.3.2 Columns

5.3.3.2.1 blank test

Description: Blank Test

Help:

Modified On: 11/3/2020 2:14:16 PM (UTC+02:00)

Modified By: CLAL-INS\NinaB

Category:

blank test Column Header: Combine Groups By: Sum Both Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Discount Use: Yes Rate Use: Cash Flow Rebase Type: **Previous** Retain Value: Yes False Override: Virtual: False

5.3.3.2.2 cashflow_b_bef_ret

Description: Cashflow B before retirement

Help:

Modified On: 8/15/2021 3:07:51 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category:

Column Header: cashflow_b_bef_ret

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum

Sum

Find

Yes

Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.3 claims_lrc_q1_pv

Description: PV of disability claims in Q1

Help:

Modified On: 2/12/2024 4:05:07 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: claims_lrc_q1_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.4 claims_lrc_q2_pv

Description: PV of disability claims in Q2

Help:

Modified On: 2/12/2024 4:05:12 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: claims_lrc_q2_pv

Sum Both Combine Groups By: Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Yes Discount Use: Cash Flow Rate Use: Previous Rebase Type: Retain Value: Yes Override: False Virtual: False

5.3.3.2.5 claims_Irc_q3_pv

Description: PV of disability claims in Q3

Help:

Modified On: 2/12/2024 4:05:19 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: claims_lrc_q3_pv

Combine Groups By: Sum Both Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

Yes

Pate Use:

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.6 claims_Irc_q4_pv

Description: PV of disability claims in Q4

Help:

Modified On: 2/12/2024 4:05:26 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: claims_lrc_q4_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

Piscount Use:

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.7 claims_re_lrc_q1_pv

Description: PV of disability claims reins in Q1

Help:

Modified On: 9/10/2024 4:28:26 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category:

Column Header: claims_re_lrc_q1_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

End

Yes

Cash Flow

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flo
Previous
Yes
Previous
Yes
False

5.3.3.2.8 claims_re_lrc_q2_pv

Description: PV of disability claims reins in Q2

Help:

Modified On: 9/10/2024 4:31:32 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category:

Column Header: claims_re_lrc_q2_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.9 claims_re_lrc_q3_pv

Description: PV of disability claims reins in Q3

Help:

Modified On: 9/10/2024 4:32:03 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category:

Column Header: claims_re_lrc_q3_pv

Sum Both Combine Groups By: Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Yes Discount Use: Cash Flow Rate Use: Previous Rebase Type: Retain Value: Yes Override: False

Description: PV of disability claims reins in Q4

Help:

Virtual:

Modified On: 9/10/2024 4:32:27 PM (UTC+03:00)

False

Modified By: CLAL-INS\arikt

Category:

Column Header: claims_re_lrc_q4_pv

Combine Groups By: Sum Both Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

-1

End

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow
Previous
Yes
False
False

5.3.3.2.11 claims_re_lrc_yr2plus_pv

Description: PV of disability claims reins in Y2 onwards

Help:

Modified On: 9/10/2024 4:33:10 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category:

Column Header: claims_re_lrc_yr2plus_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

End

Yes

Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.12 expense_claims_lrc_q1_pv

Description: PV of expense claims in Q1

Help:

Modified On: 11/13/2024 11:01:32 PM (UTC+02:00)

Modified By: CLAL-INS\arikt

Category:

Column Header: expense_claims_lrc_q1_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

End

Yes

Cash Flow

Rate Use: Cash Flo
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.13 expense_claims_lrc_q2_pv

Description: PV of expense claims in Q2

Help:

Modified On: 11/13/2024 11:02:35 PM (UTC+02:00)

Modified By: CLAL-INS\arikt

Category:

Column Header: expense_claims_lrc_q2_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

Yes

False

5.3.3.2.14 expense_claims_lrc_q3_pv

Description: PV of expense claims in Q3

Help:

Modified On: 11/13/2024 11:03:14 PM (UTC+02:00)

Modified By: CLAL-INS\arikt

Category:

Column Header: expense_claims_lrc_q3_pv

Sum Both Combine Groups By: Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Discount Use: Yes Cash Flow Rate Use: Previous Rebase Type: Retain Value: Yes Override: False False Virtual:

5.3.3.2.15 expense_claims_lrc_q4_pv

Description: PV of expense claims in Q4

Help:

Modified On: 11/13/2024 11:03:46 PM (UTC+02:00)

Modified By: CLAL-INS\arikt

Category:

Column Header: expense_claims_lrc_q4_pv

Combine Groups By: Sum Both Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

-1

End

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.16 expense_claims_lrc_yr2plus_pv

Description: PV of expense claims Year 2 onwards

Help:

Modified On: 11/14/2024 2:28:09 PM (UTC+02:00)

Modified By: CLAL-INS\arikt

Category:

Column Header: expense_claims_lrc_yr2plus_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.17 initialise

Description: Initialise

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: initialise
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes
Rate Use: Cash Flow

5.3.3.2.18 int_units_piz_active

Description: Interest earned on active piz units

Help:

Modified On: 2/26/2025 12:17:07 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category:

Column Header: int_units_piz_active

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.19 int_units_piz_pup

Description: Interest earned on paid-up piz units

Help:

Modified On: 2/26/2025 12:31:42 PM (UTC+02:00)

Sum Both

Modified By: CLAL-INS\ahuvaa

Category:

Combine Groups By:

Column Header: int_units_piz_pup

Combine Periods: Sum Default sliding Size: -1 **Discount Timing:** End Yes Discount Use: Cash Flow Rate Use: Previous Rebase Type: Retain Value: Yes Override: False Virtual: False

5.3.3.2.20 outgo_b_before_ret

Description: Outgo B before retirement

Help:

Modified On: 12/8/2021 3:16:26 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category:

Column Header: outgo_b_before_ret

Combine Groups By: Sum Both Combine Periods: Sum

Default sliding Size:

Discount Timing:

Discount Use:

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.21 res_ann_deficiency

Description: Res Ann Deficiency

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: res_ann_def
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.22 retirement_age_lookup

Description: Retirement Age Lookup

Help:

Modified On: 8/30/2021 8:47:17 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category:

Column Header: retirement_age_lookup

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

End

Yes

Cash Flow

5.3.3.2.23 retirement prop

Description: proportion retiring

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: retirement_prop
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.24 rider_perc_allowed

Description: percentage of risk riders allowed (due to limit)

Help:

Modified On: 1/11/2023 6:58:10 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category:

Column Header: rider_perc_allowed

Sum Both Combine Groups By: Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Discount Use: Yes Cash Flow Rate Use: Previous Rebase Type: Retain Value: Yes Override: False Virtual: False

5.3.3.2.25 riskadj_gross_rel_q1_pv

Description: PV of gross risk adjustment pv Q1

Help:

Modified On: 9/10/2024 6:58:21 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category:

Column Header: riskadj_gross_rel_q1_pv

Combine Groups By: Sum Both Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

-1

End

Yes

Rate Use:
Cash Flow
Rebase Type:
Previous
Retain Value:
Yes
Override:
Virtual:
False

5.3.3.2.26 riskadj_gross_rel_q2_pv

Description: PV of gross risk adjustment pv Q2

Help:

Modified On: 9/10/2024 6:58:49 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category:

Column Header: riskadj_gross_rel_q2_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

Last

Place of the periods:

Last

Place of the periods:

Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.27 riskadj_gross_rel_q3_pv

Description: PV of gross risk adjustment pv Q3

Help:

Modified On: 9/10/2024 6:59:10 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category:

Column Header: riskadj_gross_rel_q3_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

End

Yes

Cash Flow

5.3.3.2.28 riskadj_gross_rel_q4_pv

Description: PV of gross risk adjustment pv Q4

Help:

Modified On: 9/10/2024 6:59:29 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category:

Column Header: riskadj_gross_rel_q4_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

False

False

5.3.3.2.29 riskadj_gross_rel_total_pv

Description: PV of gross risk adjustment pv total

Help:

Modified On: 9/10/2024 6:44:29 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category:

Column Header: riskadj_gross_rel_total_pv

Sum Both Combine Groups By: Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Discount Use: Yes Cash Flow Rate Use: Previous Rebase Type: Retain Value: Yes Override: False False Virtual:

5.3.3.2.30 riskadj_gross_rel_yr2plus_pv

Description: PV of gross risk adjustment pv Year 2 onwards

Help:

Modified On: 9/10/2024 6:59:54 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category:

Column Header: riskadj_gross_rel_yr2plus_pv

Combine Groups By: Sum Both Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.31 riskadj_re_rel_q1_pv

Description: PV of rein risk adjustment Q1

Help:

Modified On: 9/10/2024 6:53:06 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category:

Column Header: riskadj_re_rel_q1_pv

Combine Groups By:
Combine Periods:
Default sliding Size:
Discount Timing:
Discount Use:

Sum Both
Last
-1
End
Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.32 riskadj_re_rel_q2_pv

Description: PV of rein risk adjustment Q2

Help:

Modified On: 9/10/2024 6:54:13 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category:

Column Header: riskadj_re_rel_q2_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

End

Yes

Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.33 riskadj_re_rel_q3_pv

Description: PV of rein risk adjustment Q3

Help:

Modified On: 9/10/2024 6:55:12 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category:

Column Header: riskadj_re_rel_q3_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

False

False

5.3.3.2.34 riskadj_re_rel_q4_pv

Description: PV of rein risk adjustment Q4

Help:

Modified On: 9/10/2024 6:56:16 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category:

Column Header: riskadj_re_rel_q4_pv

Sum Both Combine Groups By: Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Yes Discount Use: Cash Flow Rate Use: Previous Rebase Type: Retain Value: Yes Override: False Virtual: False

5.3.3.2.35 riskadj_re_rel_total_pv

Description: PV of release rein risk adjustment

Help:

Modified On: 9/10/2024 6:45:04 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category:

Column Header: riskadj_re_rel_total_pv

Combine Groups By: Sum Both Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow
Previous
Yes
False
False

5.3.3.2.36 riskadj_re_rel_yr2plus_pv

Description: PV of rein risk adjustment Year 2 onwards

Help:

Modified On: 9/10/2024 6:57:08 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category:

Column Header: riskadj_re_rel_yr2plus_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

Last

-1

End

Yes

Cash Flow

Rate Use: Cash Flo
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.37 surv_per_ret

Description: Survivorship w.r.t. retirment

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: surv_per_ret
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

5.3.3.2.38 surv_ret

Description: Survivorship w.r.t. retirment

Help:

Modified On: 8/3/2021 3:33:14 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category:

Column Header: surv_ret
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.39 units_at_mat

Description: Units at maturity

Help:

Modified On: 11/17/2022 5:30:58 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category:

Column Header: units at mat Combine Groups By: Sum Both Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Yes Discount Use: Cash Flow Rate Use: Previous Rebase Type: Retain Value: Yes Override: False Virtual: False

5.3.3.2.40 reserve

Description: Reserve total (excluding ERR)

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves

Column Header: reserve
Combine Groups By: Sum Both
Combine Periods: Last

Default sliding Size:

Discount Timing:

End
Discount Use:

No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.41 reserve_bef_ret

Description: Reserve total (excluding ERR) before

retirement

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves

Column Header: reserve_bef_ret
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

False

False

5.3.3.2.42 reserve extra

Description: extra reserve items

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves

Column Header: reserve_extra
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

5.3.3.2.43 ann_cost_pv

Description: PV of annuity defeciency cost at maturity

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Annuity Deficiency

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Annuity_cost_pv

Sum Both

Last

-1

End

No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.44 net prem def

Description: Net premiums Deficiency in force

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: net_prem_def
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

False

False

5.3.3.2.45 net_premium_e

Description: Net premiums in force

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: net_premium_e
Combine Groups By: Sum Both

Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

No

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow
Previous
Yes
False
False

5.3.3.2.46 res_np_deficiency

Description: Net Premium Reserve Deficiency

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: res_np_def
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.47 reserve_annuity

Description: Annuity In Payment Reserves

Help:

Modified On: 9/15/2022 9:56:27 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: reserve_annuity
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End

Discount Timing: End
Discount Use: No

5.3.3.2.48 reserve basic

Description: Basic reserve - Net or Gross Premium

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: reserve_basic
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.49 reserve_basic_bef_ret

Description: Basic reserve - Net or Gross Premium before

retirement

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: reserve basic bef ret

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.50 reserve_basic_gt_su

Description: Basic reserve - guaranteed - for Service units

Help:

Modified On: 5/29/2025 12:21:28 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: reserve basic gt su

Combine Groups By: Sum Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.51 reserve claims

Description: Basic reserve - Claims In Payment

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: reserve_claims
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.52 reserve claims retent

Description: Basic reserve - Claims In Payment - retention

Help:

Modified On: 4/11/2024 3:07:18 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: reserve_claims_retent

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

5.3.3.2.53 reserve_risk_premium

Description: Risk premium for Basic reserve

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: reserve_risk_premium

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.54 ber_retire_rm

Description: Risk driver for takeup risk

Help:

Modified On: 8/5/2021 2:44:00 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Capital

Column Header: ber retire rm Sum Both Combine Groups By: Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Yes Discount Use: Cash Flow Rate Use: Previous Rebase Type: Retain Value: Yes

Override: False Virtual: False

5.3.3.2.55 capital_at_risk

Description: Capital At Risk

Help:

Modified On: 12/3/2020 2:41:27 PM (UTC+02:00)

Modified By: CLAL-INS\NinaB

Category: Capital

Column Header: capital_at_risk
Combine Groups By: Sum Both
Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

-1

End

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

False

False

5.3.3.2.56 capital_at_risk_rm

Description: RM Capital At Risk

Help:

Modified On: 12/7/2020 3:37:44 PM (UTC+02:00)

Modified By: CLAL-INS\NinaB

Category: Capital

Column Header: capital_at_risk_rm

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

Description: Risk margin calc for disability claim cost

Help:

Modified On: 2/14/2024 4:10:47 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Capital

Column Header: claim_cost_pv_rm

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

Piscount Size:

An April 1997

Control 199

5.3.3.2.58 claim_cost_re_pv_rm

Description: Risk margin calc for disability rein claim cost

Help:

Modified On: 3/26/2024 12:18:34 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Capital

Column Header: claim_cost_re_pv_rm

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

False

False

5.3.3.2.59 claims_annuity_pv_rm

Description: Risk margin for longevity risk

Help:

Modified On: 8/15/2021 4:19:40 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Capital

Column Header: claims_annuity_pv_rm

Sum Both Combine Groups By: Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Discount Use: Yes Cash Flow Rate Use: Previous Rebase Type: Retain Value: Yes Override: False Virtual: False

5.3.3.2.60 claims_death_pv_rm

Description: Discounted risk margin for mortality scenario

Help:

Modified On: 12/7/2020 3:49:04 PM (UTC+02:00)

Modified By: CLAL-INS\NinaB

Category: Capital

Column Header: claims_death_pv_rm

Combine Groups By: Sum Both Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.61 claims_disability_pv_rm

Description: Risk margin calc for disability

Help:

Modified On: 12/7/2020 3:40:40 PM (UTC+02:00)

Modified By: CLAL-INS\NinaB

Category: Capital

Column Header: claims_disability_pv_rm

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.62 expense_pv_rm

Description: Risk driver for expense risk

Help:

Modified On: 12/7/2020 3:41:56 PM (UTC+02:00)

Modified By: CLAL-INS\NinaB

Category: Capital

Column Header: expense_pv_rm
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1

Discount Timing: End
Discount Use: Yes

5.3.3.2.63 inv_income_chetz_pv_rm

Description: Risk margin for chetz

Help:

Modified On: 12/7/2020 3:42:23 PM (UTC+02:00)

Modified By: CLAL-INS\NinaB

Category: Capital

Column Header: inv_income_chetz_pv_rm

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

False

False

5.3.3.2.64 profit_book_vif_pv_pos_rm

Description: Risk driver for lapse risk

Help:

Modified On: 12/7/2020 3:49:02 PM (UTC+02:00)

Modified By: CLAL-INS\NinaB

Category: Capital

Column Header: profit_book_vif_pv_pos_rm

Combine Groups By: Sum Both Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Discount Use: Yes Cash Flow Rate Use: Previous Rebase Type: Retain Value: Yes Override: False False Virtual:

5.3.3.2.65 rein_claims_pv_rm

Description: Risk margin calc for rein disability claim cost

using VA discount

Help:

Modified On: 3/17/2024 1:29:21 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Capital

Column Header: rein claims pv rm

Combine Groups By: Sum Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

Pind

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.66 v_rm_cumm

Description: Cummulative V for risk margin

Help:

Modified On: 7/28/2021 5:03:46 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category:
Column Header:
Combine Groups By:
Combine Periods:
Default sliding Size:
Discount Timing:
Discount Use:

Capital
V_rm_cumm
Sum Both
Last
Last
-1
End
Discount Ves:

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.67 bonus shimur

Description: persistency bonus for savings

Help: extra info for IFRS

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By:

Category:

Cashflows

Column Header:

Combine Groups By:

Combine Periods:

Sum

Combine Periods:

Combine

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

Pind

Yes

5.3.3.2.68 cashflow_b_post_ret

Description: Cashflow after retirement (beginning of period)

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt Cashflows Category:

Column Header: cashflow_b_post_ret

Sum Both Combine Groups By: Sum Combine Periods: Default sliding Size: -1 **Discount Timing:** End Discount Use: Yes

Cash Flow Rate Use: Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.69 cashflow_pv_active

Description: Cashflow Pv Active

Help:

6/15/2023 3:19:30 PM (UTC+03:00) Modified On:

Modified By: CLAL-INS\ahuvaa

Category: Cashflows

Column Header: cashflow pv active

Combine Groups By: Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Yes Discount Use: Cash Flow Rate Use: Previous Rebase Type: Retain Value: Yes Override: False

5.3.3.2.70 cashflow_pv_active_chetz

Description: Cashflow Pv Active discounted using chetz

rates

False

Sum Both

Help:

Virtual:

Modified On: 7/14/2024 2:19:59 PM (UTC+03:00)

Modified By: CLAL-INS\arikt Category: Cashflows

Column Header: cashflow pv active chetz

Combine Groups By: Sum Both Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

Pind

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.71 cashflow pv active e

Description: Cashflow Pv Active - all components being

discoutned EOP

Help:

Modified On: 7/19/2022 12:58:48 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Cashflows

Column Header: cashflow_pv_active_e

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Cash Flow
Rebase Type:

Rebase Type: Previo

5.3.3.2.72 cashflow_pv_deferred

Description: Cashflow Pv Deferred

Help:

Modified On: 6/15/2023 3:21:47 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Cashflows

Column Header: cashflow_pv_deferred

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

5.3.3.2.73 cashflow_pv_deferred_chetz

Description: Cashflow Pv Deferred chetz

Help:

Modified On: 7/10/2024 12:49:12 AM (UTC+03:00)

Modified By: CLAL-INS\arikt Category: Cashflows

Column Header: cashflow pv deferred chetz

Combine Groups By: Sum Both Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Discount Use: Yes Cash Flow Rate Use: Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.74 cashflow_pv_deferred_chetz_ifrs

Description: Cashflow Pv Deferred chetz - IFRS

Help:

Modified On: 7/14/2024 6:56:22 PM (UTC+03:00)

Modified By: CLAL-INS\arikt Category: Cashflows

Column Header: cashflow_pv_deferred_chetz_ifrs

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

End

Yes

Cash Flow

Rate Use: Cash Flo
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.75 cashflow pv deferred chetz res

Description: Cashflow Pv Deferred chetz - Res

Help:

Modified On: 7/14/2024 6:55:12 PM (UTC+03:00)

Modified By: CLAL-INS\arikt Category: Cashflows

Column Header: cashflow pv deferred chetz res

Combine Groups By: Sum Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

Pind

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

Yes

False

5.3.3.2.76 cashflow_pv_deferred_e

Description: Cashflow Pv Deferred - discounted EOP

Help:

Modified On: 9/22/2022 11:44:46 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Cashflows

Column Header: cashflow_pv_deferred_e

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Pate Mee:

Combine Periods:

Last

-1

End

Proceeding Size:

Combine Periods:

Combine Periods:

Sum Both

Last

-1

Combine Periods:

Last

Combine Periods:

Combine Pe

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.77 cashflow pv ifrs

Description: Cashflow Pv Active discounted - IFRS

Help:

Modified On: 7/14/2024 2:04:39 PM (UTC+03:00)

Modified By: CLAL-INS\arikt
Category: Cashflows
Column Header: cashflow_pv_ifrs
Combine Groups By: Sum Both

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

Last

-1

End

Yes

5.3.3.2.78 cashflow_pv_ifrs_active

Description: Cashflow Pv Active discounted - IFRS - Active

Help:

Modified On: 7/14/2024 2:24:52 PM (UTC+03:00)

Modified By: CLAL-INS\arikt Cashflows Category:

Column Header: cashflow_pv_ifrs_active

Sum Both Combine Groups By: Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Discount Use: Yes

Cash Flow Rate Use: Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

cashflow_pv_res 5.3.3.2.79

Description: Cashflow Pv Active discounted - res

Help:

Discount Use:

7/14/2024 2:06:36 PM (UTC+03:00) Modified On:

Modified By: CLAL-INS\arikt Category: Cashflows Column Header: cashflow_pv_res

Sum Both Combine Groups By: Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Yes

Cash Flow Rate Use: Previous Rebase Type: Retain Value: Yes Override: False Virtual: False

5.3.3.2.80 cashflow_pv_res_active

Description: Cashflow Pv Active discounted - res - Active

Help:

Modified On: 7/14/2024 2:18:35 PM (UTC+03:00)

Modified By: CLAL-INS\arikt Category: Cashflows

Column Header: cashflow pv res active

Combine Groups By: Sum Both Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

Description: Cashflow Re Pv

Help:

Modified On: 7/12/2021 12:25:04 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category:
Column Header:
Combine Groups By:
Combine Periods:
Default sliding Size:
Discount Timing:
Discount Use:

Cashflows
C

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.82 claims_annuity_gt

Description: Guaranteed annuity claims for IFRS

Help: extra info for IFRS

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt Category: Cashflows

Column Header: claims_annuity_gt

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum

Sum

Fund

Yes

Cash Flow

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flo
Previous
Yes
Previous
Yes
False

5.3.3.2.83 claims insurance

Description: Claims due to death or disability

Help: extra info for IFRS

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt Category: Cashflows

Column Header: claims_insurance

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

False

False

5.3.3.2.84 comm hekef net

Description: Hekef commission net of clawback for IFRS

Help: extra info for IFRS

Modified On: 11/29/2021 8:15:37 AM (UTC+02:00)

Modified By: CLAL-INS\joshm Category: Cashflows

Column Header: comm_hekef_net

Combine Groups By: Sum Both Combine Periods: Sum Default sliding Size: -1 **Discount Timing:** End Discount Use: Yes Cash Flow Rate Use: Previous Rebase Type: Retain Value: Yes

Override: False Virtual: False

5.3.3.2.85 comm_profit

Description: Profit commission (calculation needs to be

added when data field is added) for IFRS

Help: extra info for IFRS

Modified On: 1/11/2023 1:56:31 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Cashflows
Column Header: comm_profit
Combine Groups By: Sum Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum
-1

Pind
Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.86 comm_reg

Description: All monthly commissions related to premiums

for IFRS

Help: extra info for IFRS

Modified On: 11/29/2021 8:17:25 AM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category:

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Cashflows

Comm_reg

Sum Both

Sum

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.87 coverage_units

Description: Coverage units for IFRS - gross - weighted

service units

Help: extra info for IFRS

Modified On: 8/8/2024 4:58:10 PM (UTC+03:00)

Modified By:
Category:
Cashflows
Column Header:
Combine Groups By:
Combine Periods:
Default sliding Size:
Discount Timing:

CLAL-INS\arikt
Cashflows
Coverage_units
Sum Both
Sum
-1

Discount Use: Yes
Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False

Virtual: False

5.3.3.2.88 coverage_units_re

Description: Coverage units reinsurance for IFRS - weighted

service units

Help: extra info for IFRS

Modified On: 8/1/2024 12:32:22 PM (UTC+03:00)

Modified By: CLAL-INS\arikt Category: Cashflows

Column Header: coverage_units_re

Sum Both Combine Groups By: Combine Periods: Sum Default sliding Size: -1 **Discount Timing:** End Yes Discount Use: Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes False Override: False Virtual:

5.3.3.2.89 expense_clm

Description: Total claims expenses, including annuity

expenses - for IFRS

Help: extra info for IFRS

Modified On: 12/8/2021 8:57:25 AM (UTC+02:00)

Modified By:
Category:
Cashflows
Column Header:
Combine Groups By:
Combine Periods:
Default sliding Size:

CLAL-INS\joshm
Cashflows
expense_clm
Sum Both
Sum
-1

Discount Timing: End
Discount Use: No
Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes

Override: False Virtual: False

5.3.3.2.90 expense_init

Description: Initial expenses - for IFRS

Help: extra info for IFRS

Modified On: 11/17/2022 5:32:36 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows Column Header: expense_init Combine Groups By: Sum Both Combine Periods: Sum Default sliding Size: -1 **Discount Timing:** End Discount Use: Yes Rate Use: Cash Flow Previous

Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.91 expense pv active

Description: Expense Pv Active

Help:

Modified On: 9/13/2022 4:01:48 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Cashflows

Column Header: expense_pv_active

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

Place of the Periods:

Sum Both

Last

Place of the Periods:

Sum Both

Last

All Combine Periods:

Place of the Period Period

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.92 expense_pv_active_no_inv

Description: Expense Pv Active w/o investment expenses

Help:

Modified On: 9/13/2022 4:02:19 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Cashflows

Column Header: expense_pv_active_no_inv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes

Override: False Virtual: False

5.3.3.2.93 expense_pv_deferred

Description: Expense Pv Deferred

Help:

Modified On: 10/26/2021 10:54:31 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Cashflows

Column Header: expense_pv_deferred

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow
Previous
Yes
Previous
Yes
False

5.3.3.2.94 expense ren

Description: Renewal expenses, not including annuity

expenses - for IFRS

Help: extra info for IFRS

Modified On: 12/8/2021 8:58:40 AM (UTC+02:00)

Modified By: CLAL-INS\joshm Category: Cashflows

Category: Cashflows
Column Header: expense_ren
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1
Discount Timing: End

Discount Use:

Rate Use:

Cash Flow
Rebase Type:

Previous
Retain Value:

Override:

Virtual:

Yes

Cash Flow
Previous
False
False

5.3.3.2.95 expense_var_pv_active

Description: Variable Expense Pv Active

Help:

Modified On: 11/17/2022 5:32:36 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows

Column Header: expense_var_pv_active

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

End

Yes

Cash Flow

Rate Use: Cash Flo
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.96 fvui

Description: PV FVUI (fair value of underlying items) - for

IFRS ניכוי לפני החיסכון בגין המבוטח כלפי התחייבות

ניהול דמי

Help: extra info for IFRS

Modified On: 3/27/2023 11:16:09 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Cashflows

Column Header: fvui

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.97 int_cred

Description: Return accrued to policy reserve - for IFRS -

Note: query participating annuities

Help: extra info for IFRS

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt
Category: Cashflows
Column Header: int_cred
Combine Groups By: Sum Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.98 investment income chetz pv deferred

Description: Chetz investment income Pv Deferred

Help:

Modified On: 6/19/2023 1:45:53 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Cashflows

Column Header: investment income chetz pv_deferred

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

Piscount Size:

Piscount Use:

Sum Both

Last

-1

Piscount Use:

Piscount Use:

Sum Both

Last

-1

Piscount Use:

Piscount Use:

Sum Both

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.99 investment_income_chetz_pv_inpay

Description: Chetz Investment Income Pv AnnInpayment

Help:

Modified On: 6/19/2023 1:46:00 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Cashflows

Column Header: investment_income_chetz_pv_inpay

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

End

Yes

Cash Flow

Rate Use: Cash Flo
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.100 investment income pv active

Description: Investment income Pv Active

Help:

Modified On: 7/18/2022 6:07:11 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Cashflows

Column Header: investment_income_pv_active

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

End

Yes

Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.101 investment_income_pv_deferred

Description: Investment income Pv Deferred

Help:

Modified On: 9/12/2019 4:46:55 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Category: Cashflows

Column Header: investment_income_pv_deferred

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

Piscount Size:

Find

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.102 mgt fees prem

Description: Management fees deducted from premium

(profil only) - for IFRS

Help: extra info for IFRS

Modified On: 11/29/2021 8:42:58 AM (UTC+02:00)

Modified By: CLAL-INS\joshm
Category: Cashflows
Column Header: mgt fees prem

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Sum Both

Sum

-1

End

Discount Use: Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.103 outgo_pv_active

Description: Outgo Pv Active

Help:

Modified On: 9/12/2019 4:47:57 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Category: Cashflows

Column Header: outgo_pv_active

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.104 outgo_pv_deferred

Description: Outgo Pv Deferred

Help:

Modified On: 9/12/2019 4:47:27 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Category: Cashflows

Column Header: outgo_pv_deferred

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.105 prem_insurance

Description: Premium allocated to insurance / risk - for IFRS

Yes

Help: extra info for IFRS

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By:
Category:
Cashflows
Column Header:
Combine Groups By:
Combine Periods:
Default sliding Size:
Discount Timing:

CLAL-INS\Arikt
Cashflows
Prem_insurance
Sum Both
Sum
-1
End

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow
Previous
Yes
False
False

5.3.3.2.106 prem_savings

Discount Use:

Description: Premium allocated to savings - for IFRS

Help: extra info for IFRS

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By:

Category:

Cashflows

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

CLAL-INS\Arikt

Cashflows

prem_savings

Sum Both

Sum

-1

End

Discount Use: Yes
Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.107 profit_book_pv_active

Description: Profit book Pv Active

Help:

Modified On: 9/12/2019 4:50:25 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB Category: Cashflows

Column Header: profit book pv active

Combine Groups By: Sum Both Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.108 profit_book_pv_deferred

Description: Profit Book Pv Deferred

Help:

Modified On: 10/26/2021 11:12:03 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Cashflows

Column Header: profit_book_pv_deferred

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

Place Sum Both

Last

Place Sum Both

Last

-1

Place Sum Both

Last

Place Sum Both

Place

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.109 profit_book_vif_gross_pv_active

Description: Gross Profit book vif Pv Active

Help:

Modified On: 6/28/2021 2:39:38 PM (UTC+03:00)

Modified By: CLAL-INS\joshm Category: Cashflows

Column Header: profit_book_vif_gross_pv_active

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Pate Meet

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.110 profit_book_vif_pv_active

Description: Profit book vif Pv Active

Help:

Modified On: 9/12/2019 4:49:23 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Category: Cashflows

Column Header: profit_book_vif_pv_active

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

False

False

5.3.3.2.111 profit_book_vif_pv_deferred

Description: Profit Book Vif Pv Deferred

Help:

Modified On: 10/26/2021 11:13:29 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Cashflows

Column Header: profit_book_vif_pv_deferred

Sum Both Combine Groups By: Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Discount Use: Yes Cash Flow Rate Use: Previous Rebase Type: Retain Value: Yes Override: False

5.3.3.2.112 profit_gross_vif_pv_active

Description: Gross Profit Net vif Pv Active

Help:

Virtual:

Modified On: 8/28/2022 4:39:59 PM (UTC+03:00)

False

Modified By: CLAL-INS\ahuvaa

Category: Cashflows

Column Header: profit_gross_vif_pv_active

Combine Groups By: Sum Both Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

-1

End

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.113 profit_net_vif_pv_active

Description: Net Profit vif Pv Active

Help:

Modified On: 8/28/2022 4:37:44 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Cashflows

Column Header: profit_net_vif_pv_active

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

Place Ind

Combine Periods:

Last

-1

Combine Periods:

Last

-1

Combine Periods:

Combine Per

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.114 profit_net_vif_pv_deferred

Description: Net Profit Vif Pv Deferred

Help:

Modified On: 9/12/2019 4:57:52 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB Category: Cashflows

Column Header: profit_net_vif_pv_deferred

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Peter Meet

Comb Flow

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.115 reserve_increase_pv_active

Description: Reserve increase Pv Active

Help:

Modified On: 7/18/2022 6:07:32 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Cashflows

Column Header: reserve_increase_pv_active

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

False

False

5.3.3.2.116 reserve_increase_pv_deferred

Description: Reserve Increase Pv Deferred

Help:

Modified On: 9/12/2019 4:48:37 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Category: Cashflows

Column Header: reserve_increase_pv_deferred

Combine Groups By: Sum Both Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Discount Use: Yes Cash Flow Rate Use: Previous Rebase Type: Retain Value: Yes Override: False False Virtual:

5.3.3.2.117 reserve_pv

Description: Reserve PV

Help:

Modified On: 11/24/2021 12:48:01 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows
Column Header: reserve_pv
Combine Groups By: Sum Both
Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

-1

End

Yes

Rate Use:
Cash Flow
Rebase Type:
Previous
Retain Value:
Yes
Override:
False
Virtual:
False

5.3.3.2.118 rid_cashflow_pv

Description: PV of cashflows for profil riders

Help:

Modified On: 1/11/2023 7:02:58 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows
Column Header: rid_cashflow_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.119 service_units

Description: Proxy for runoff of profit - for IFRS - Note:

query proportionality

Help: extra info for IFRS

Modified On: 5/29/2025 12:21:29 PM (UTC+03:00)

Modified By:
Category:
Cashflows
Column Header:
Combine Groups By:
Combine Periods:
Sum

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.120 service_units_pv

Description: PV of service units - for IFRS

Help: extra info for IFRS

Modified On: 12/8/2021 3:21:35 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows
Column Header: service_units_pv
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1

Discount Use:

Rate Use:
Cash Flow
Rebase Type:
Previous
Retain Value:
Yes
Override:
False
Virtual:
False

5.3.3.2.121 units for takeup

Discount Timing:

Description: Units/reserves eligible for annuity takeup - for

IFRS

End

Help: extra info for IFRS

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By:

Category:

Column Header:

Combine Groups By:

Combine Pariods:

Cathlows

Cashflows

Cathlows

Cashflows

Combine Groups By:

Combine Regions

Combine Regions

Combine Regions

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

Yes

False

5.3.3.2.122 income_b

Description: Income at beginning of the period

Help:

Modified On: 8/6/2024 6:41:55 PM (UTC+03:00)

Modified By: CLAL-INS\arikt
Category: Cashflows|Income

Column Header: income_b
Combine Groups By: Sum Both

Combine Periods: Sum
Default sliding Size: -1

Discount Timing:

Discount Use:

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Beginning

Yes

Cash Flow

Previous

Yes

False

5.3.3.2.123 income e

Description: Income at end of the period

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Cashflows|Income

Column Header: income_e
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.124 income pv

Description: Income Pv

Help:

Modified On: 7/12/2021 12:36:51 PM (UTC+03:00)

Modified By: CLAL-INS\joshm Category: Cashflows|Income

Column Header: income_pv
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.125 charges premium

Description: Premium related charges

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Income|Charges

Column Header: charges_premium

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both
Sum
-1

Discount Timing: Beginning
Discount Use: Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.126 charges_premium_pv

Description: PV Premium related charges

Help:

Modified On: 9/12/2019 4:16:39 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Category: Cashflows|Income|Charges
Column Header: charges premium pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Last

-1

Discount Timing:

Discount Use:

Rate Use:

Rebase Type:

Previous

Rebase Type:

Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.127 cover_charge

Description: Life cover charge (beg)

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Income|Charges

Column Header: cover_charge_b
Combine Groups By: Sum Both

Combine Periods: Sum

Default sliding Size: -1

Discount Timing:

Discount Use:

Rate Use:

Rebase Type:

Retain Value:

Seginning

Yes

Previous

Yes

Override: False Virtual: False

Description: PV Life cover charges

Help:

Modified On: 9/12/2019 4:20:20 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Category: Cashflows|Income|Charges

Column Header: cover_charge_pv
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1

Discount Timing:

Discount Use:

Beginning

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.129 management_fee_pv

Description: PV Management fee

Help:

Modified On: 11/17/2022 5:33:34 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Income|Charges
Column Header: management_fees_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

End

Yes

Cash Flow

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flo
Previous
Yes
Previous
Yes
False

5.3.3.2.130 management fees

Description: Management fees

Help:

Modified On: 11/17/2022 5:33:34 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Income|Charges

Column Header: management_fees

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.131 mgt_var_no_bor

Description: management fees for same calc results in

managment_fees_variable and bor_return for

when no bor

Help:

Modified On: 9/25/2024 12:44:48 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Cashflows|Income|Charges

Column Header: mgt_var_no_bor
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

Yes

False

5.3.3.2.132 mgt var no bor pup

Description: management fees for same calc results in

managment_fees_variable and bor_return

Help:

Modified On: 9/25/2024 12:45:06 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Cashflows|Income|Charges
Column Header: mgt_var_no_bor_pup

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.133 surr_charge

Description: Surrender penalty received in period

Help:

Modified On: 11/17/2022 4:46:09 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Income|Charges

Column Header: surr_charge
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.134 investment income

Description: Investment Income

Help:

Modified On: 9/10/2024 12:47:24 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Cashflows|Income|Investment Income

Column Header: investment_income

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Pate Llee:

Combine Periods:

Sum

Sum

Find

Combine Periods:

Sum

Sum

Combine Periods:

Sum

Combine Periods

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.135 investment_income_bef_ret

Description: Investment Income

Help:

Modified On: 7/21/2024 7:05:40 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Cashflows|Income|Investment Income

Column Header: investment income bef ret

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum

Sum

Find

Yes

Cash Flow

Rate Use: Cash Flo
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.136 investment_income_chetz

Description: Investment Income form chetz

Help:

Modified On: 7/18/2024 10:47:25 AM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Cashflows|Income|Investment Income

Column Header: investment income chetz

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.137 units_e_piz_int_active

Description: Cummulative investment income on piz units

Help:

Modified On: 2/26/2025 12:27:34 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Cashflows|Income|Investment Income

Column Header: units e piz int active

Combine Groups By: Sum Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

Pind

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

Description: Cummulative investment income on piz units

(pup)

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Income|Investment Income

Column Header: units_e_piz_int_pup

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Cash Flow
Rebase Type:

Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.139 be reserve

Description: best estimate reserve

Help:

Modified On: 5/8/2022 3:37:09 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Cashflows|Income|Premium

Column Header: be_reserve
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1

Discount Timing: Beginning

Discount Use: Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.140 discount_factor_acc

Description: Accumulated discount factor

Help:

Modified On: 8/16/2024 12:53:53 AM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Cashflows|Income|Premium

Column Header: discount factor acc

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

0

End

Rate Use:

Rebase Type:
Current
Retain Value:

Override:
Virtual:

Cash Flow
Current
Yes
Current
Yes
False

5.3.3.2.141 investment_income_chetz_bef_ret

Description: investment income from chetz before retiring

Help: PV of investment income at the "discount

rate", at the beginning of the period.

The discount rate in the experience model is

the embedded value discount rate 7/25/2024 3:06:30 PM (UTC+03:00)

Modified On: 7/25/2024 3:06:30 PM

Modified By: CLAL-INS\arikt

Category: Cashflows|Income|Premium
Column Header: investment_income_chetz_bef_ret

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

0

End

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.142 investment income chetz pv

Description: PV of investment income from chetz

Modified On:

Help: PV of investment income at the "discount

rate", at the beginning of the period.

The discount rate in the experience model is

the embedded value discount rate 7/9/2024 2:39:02 PM (UTC+03:00)

Modified Bv: CLAL-INS\arikt

Category: Cashflows|Income|Premium
Column Header: investment income chetz pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Combine Periods:

Last

Discount Size:

No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.143 investment income chetz pv active

Description: PV of investment income from chetz Active

Help: PV of investment income at the "discount

rate", at the beginning of the period.

The discount rate in the experience model is

the embedded value discount rate

Modified On: 7/10/2024 12:20:45 AM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Cashflows|Income|Premium

Column Header: investment_income_chetz_pv_active

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

0

End

No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.144 investment income pv

Description: PV of investment income

Help: PV of investment income at the "discount

rate", at the beginning of the period.

The discount rate in the experience model is

the embedded value discount rate

Modified On: 7/21/2024 11:14:04 AM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Cashflows|Income|Premium Column Header: investment_income_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

0

End

No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.145 pol fee

Description: Policy Fee

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Income|Premium

Column Header: pol_fee
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1

Discount Timing:

Discount Use:

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Beginning

Yes

Cash Flow

Previous

Yes

False

5.3.3.2.146 pol fee pv

Description: pv of Policy Fee

Help:

Modified On: 9/12/2019 4:23:19 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Category: Cashflows|Income|Premium

Column Header: pol_fee_pv
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1

Discount Timing:

Discount Use:

Rate Use:

Rebase Type:

Beginning

Yes

Cash Flow

Previous

Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.147 prem_savings_pv

Description: PV of premiums savings

Help:

Modified On: 3/27/2023 10:58:44 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Cashflows|Income|Premium

Column Header: prem_savings_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

0

No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.148 premium

Description: premium (excluding policy fee)

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Income|Premium

Column Header: premium
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1

Discount Timing: Beginning
Discount Use: Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.149 premium_disc

Description: premium discount

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Income|Premium

Column Header: premium_disc
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1

Discount Timing: Beginning
Discount Use: Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.150 premium disc pv

Description: PV of premium discounts

Help:

Modified On: 9/12/2019 4:11:27 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Category: Cashflows|Income|Premium

Column Header: premium_disc_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

0

End

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.151 premium disc shimur

Description: premium discount - shimur

Help:

Modified On: 4/11/2024 6:37:02 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Income|Premium Column Header: premium disc shimur

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Sum

-1

Discount Timing:

Discount Use:

Beginning

Yes

Rate Use: Cash Flow Rebase Type: Previous

Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.152 premium_disc_shimur_pv

Description: PV of premium discounts - shimur

Help:

Modified On: 4/11/2024 6:02:30 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Income|Premium Column Header: premium_disc_shimur_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

0

No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.153 premium_extra

Description: Premium income for extra sum insured

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Income|Premium

Column Header: premium_extra
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1

Discount Timing:

Discount Use:

Beginning

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.154 **premium_gross**

Description: Premium (including policy fee)

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Income|Premium

Column Header: premium_gross
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1

Discount Timing: Beginning
Discount Use: Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.155 premium gross fix

Description: fixed premium gross - monthly

Help:

Modified On: 9/21/2022 2:48:59 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Cashflows|Income|Premium

Column Header: premium_gross_fix

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Sum

-1

Discount Timing:

Discount Use:

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Beginning

Yes

Cash Flow

Previous

Yes

False

False

5.3.3.2.156 premium gross var

Description: variable premium gross - monthly

Help:

Modified On: 9/21/2022 2:50:17 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Cashflows|Income|Premium

Column Header: premium_gross_var

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Sum

-1

Discount Timing:

Discount Use:

Rate Use:

Beginning

Yes

Cash Flow

Rate Use: Cash Flow Rebase Type: Previous

Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.157 premium_pv

Description: PV of premiums

Help:

Modified On: 9/12/2019 4:06:07 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Category: Cashflows|Income|Premium

Column Header: premium_pv
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: 0
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.158 total_bor_acc_pv

Description: PV of Bor

Help:

Modified On: 6/24/2024 3:14:01 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Income|Premium

Column Header: total_bor_acc_pv
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: 0
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.159 total_bor_return_pv

Description: PV of Bor return

Help:

Modified On: 6/24/2024 3:16:03 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Income|Premium

Column Header: total_bor_return_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

0

End

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.160 outgo b

Description: Outgo at the beginning of the period

Help:

Modified On: 12/9/2021 12:36:40 PM (UTC+02:00)

Modified By: CLAL-INS\joshm Category: Cashflows|Outgo

Column Header: outgo_b
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1

Discount Timing:

Discount Use:

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Beginning

Yes

Cash Flow

Previous

Yes

False

False

5.3.3.2.161 outgo e

Description: Outgo at end of period

Help:

Modified On: 9/12/2024 11:15:39 AM (UTC+03:00)

Modified By: CLAL-INS\arikt Category: Cashflows|Outgo

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

Yes

Rate Use: Cash Flow Rebase Type: Previous

Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.162 outgo_pv

Description: Outgo Pv

Help:

Modified On: 10/26/2021 11:11:00 AM (UTC+03:00)

Modified By: CLAL-INS\joshm Category: Cashflows|Outgo

Column Header: outgo_pv
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.163 claim_cost

Description: PHI claims inpay

Help:

Modified On: 3/26/2024 12:22:18 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Claims

Column Header: claim_cost
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

Description: PV of Disability Claim cost

Help:

Modified On: 1/22/2024 1:24:08 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Claims

Column Header: claim_cost_pv Sum Both Combine Groups By: Combine Periods: Last Default sliding Size: -1 End **Discount Timing:** Discount Use: Yes Cash Flow Rate Use: Rebase Type: Previous Retain Value: Yes False Override:

5.3.3.2.165 claim cost re

Description: PHI rein claims inpay

Help:

Virtual:

Modified On: 3/26/2024 12:22:28 PM (UTC+02:00)

False

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Claims

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Claim_cost_re

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.166 claim cost re pv

Description: PV of Reins Disability Claim cost

Help:

Modified On: 3/17/2024 1:18:30 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Claims

Column Header: claim_cost_re_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow Rebase Type: Previous

Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.167 *claims_annuity*

Description: Annuity Claims in Period

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Claims

Column Header: claims_annuity
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes
Rate Use: Cash Flow
Rebase Type: Previous

Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.168 claims_annuity_nogt

Description: Annuity Claims in Period, excluding guaranteed

payments.

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Claims
Column Header: Claims_annuity_nogt

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.169 claims_annuity_nogt_pv

Description: PV of Annuity Claims Paid, excluding

guaranteed payments.

Help:

Modified On: 8/12/2024 11:38:33 AM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Cashflows|Outgo|Claims
Column Header: Claims_annuity_nogt_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

Place of the periods:

Sum Both

Last

And

Place of the periods:

Sum Both

Last

-1

On And

Place of the periods:

Combine Periods:

And

Combine Periods:

And

Combine Periods:

Combine Periods:

And

Combine Periods:

Combine Periods:

And

Combine Periods:

Combine Peri

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.170 claims_annuity_nogt_pv_deferred

Description: PV of Deferred Annuity Claims Paid (non-

guaranteed)

Help:

Modified On: 10/26/2021 10:51:38 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Claims

Column Header: claims_annuity_nogt_pv_deferred

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

Yes

False

5.3.3.2.171 claims_annuity_pv

Description: PV of Annuity Claims Paid

Help:

Modified On: 10/26/2021 10:51:54 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Claims

Column Header: claims annuity pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.172 claims_annuity_pv_deferred

Description: PV of Deferred Annuity Claims Paid

Help:

Modified On: 8/15/2021 4:12:00 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Claims
Column Header: claims_annuity_pv_deferred

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

End

Yes

Cash Flow

Rate Use: Cash Flo
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.173 claims death

Description: Total Death Claims in Period

Help:

Discount Use:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Yes

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Claims

Column Header: claims_death
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1
Discount Timing: End

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.174 claims death pv

Description: PV of Death Claims Paid (total)

Help:

Modified On: 9/12/2019 4:18:01 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Category: Cashflows|Outgo|Claims

Column Header: claims_death_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.175 claims_disability

Description: Total disability Claims in Period

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Claims

Column Header: claims_disability
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.176 claims_disability_pv

Description: PV of Disability Claims Paid (total)

Help:

Modified On: 9/12/2019 4:18:27 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Category: Cashflows|Outgo|Claims
Column Header: Claims_disability_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.177 claims Irc q1

Description: Disability Claims in Period from first quarter

event

Help:

Modified On: 2/12/2024 4:01:19 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Claims

Column Header: claims_Irc_q1
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

Description: Disability Claims in Period from seconde

quarter event

Help:

Modified On: 2/12/2024 4:02:42 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Claims

Column Header: claims_lrc_q2
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

Description: Disability Claims in Period from third quarter

event

Help:

Modified On: 2/12/2024 4:02:50 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Claims

Column Header: claims_lrc_q3
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.180 claims_lrc_q4

Description: Disability Claims in Period from forth quarter

event

Help:

Modified On: 2/12/2024 4:02:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Claims

Column Header: claims_Irc_q4
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes
Rate Use: Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.181 claims Irc yr2plus

Description: Disability Claims in Period that not from first

year event

Help:

Modified On: 2/12/2024 4:03:08 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Claims
Column Header: Claims Irc yr2plus

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.182 claims_maturity

Description: Total Maturity Claims in Period

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Claims

Column Header: claims_maturity
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1
Discount Timing: End

Discount Use: Yes
Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.183 claims maturity pv

Description: PV of Maturity Claims Paid (total)

Help:

Modified On: 9/12/2019 4:15:35 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Category: Cashflows|Outgo|Claims
Column Header: claims_maturity_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Pate Hear:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.184 claims_maturity_ret

Description: Total reserves at retirement

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Claims
Column Header: claims_maturity_ret

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.185 claims_maturity_ret_pv

Description: PV of Maturity Claims Paid at retirement

Help:

Modified On: 9/18/2022 11:54:13 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa
Category: Cashflows|Outgo|Claims
Column Header: claims_maturity_ret_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

Yes

False

5.3.3.2.186 claims pv

Description: PV of Claims Paid (total)

Help:

Modified On: 10/5/2021 2:20:50 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Claims

Column Header: claims_pv
Combine Groups By: Sum Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

Ves

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

Description: Disability Claims in Period from first quarter

event - reinsurance

Help:

Modified On: 2/12/2024 4:03:17 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Claims

Column Header: claims_re_lrc_q1

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Sum

-1

End

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

Description: Disability Claims in Period from seconde

quarter event - reinsurance

Help:

Modified On: 2/12/2024 4:03:23 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Claims

Column Header: claims_re_lrc_q2

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False

Virtual: False

5.3.3.2.189 claims re Irc q3

Description: Disability Claims in Period from third quarter

event - reinsurance

Help:

Modified On: 2/12/2024 4:03:32 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Cashflows|Outgo|Claims Category:

claims re Irc q3 Column Header: Sum Both Combine Groups By: Combine Periods: Sum Default sliding Size: -1 **Discount Timing:** End

Discount Use: Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes False Override: False Virtual:

5.3.3.2.190 claims re Irc q4

Description: Disability Claims in Period from forth quarter

Yes

event - reinsurance

Help:

Modified On: 2/12/2024 4:03:40 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Claims

Column Header: claims_re_lrc_q4

Combine Groups By: Sum Both Combine Periods: Sum Default sliding Size: -1 **Discount Timing:** End Yes Discount Use: Rate Use: Cash Flow

Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.191 claims_re_lrc_yr2plus

Disability Claims in Period that not from first Description:

year event- reinsurance

Help:

Modified On: 2/12/2024 4:03:46 PM (UTC+02:00) Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Claims
Column Header: claims_re_lrc_yr2plus

Sum Both Combine Groups By: Combine Periods: Sum Default sliding Size: -1 End **Discount Timing:** Discount Use: Yes Cash Flow Rate Use: Rebase Type: Previous Retain Value: Yes

Override: False Virtual: False

5.3.3.2.192 claims surrender

Description: Surrender claims

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Claims

Column Header: claims_surrender

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum

Sum

Find

Yes

Cash Flow

Rate Use: Cash Flo
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.193 claims surrender pv

Description: PV of Surrender Claims Paid (total)

Help:

Modified On: 9/12/2019 4:20:39 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Category: Cashflows|Outgo|Claims
Column Header: claims surrender pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

Piscount Find

Piscount Use:

Yes

Rate Use: Cash Flow Rebase Type: Previous

Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.194 claims_total

Description: Claims Paid (total)

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Cashflows|Outgo|Claims

Column Header: claims_total Sum Both Combine Groups By: Combine Periods: Sum Default sliding Size: -1 **Discount Timing:** End Discount Use: Yes Cash Flow Rate Use: **Previous** Rebase Type:

Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.195 death benefit

Description: Total death benefit

Help:

Modified On: 12/8/2021 3:00:37 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Claims

Column Header: death_benefit
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.196 death_claim_si

Description: Death claims on sum insured

Help:

Modified On: 1/11/2023 6:58:10 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Claims

Column Header: death_claim_si Sum Both Combine Groups By: Combine Periods: Sum Default sliding Size: -1 End **Discount Timing:** Discount Use: Yes Rate Use: Cash Flow Rebase Type: Previous

Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.197 death claim units

Description: Death claims on units

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Claims

Column Header: death_claim_units

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.198 expense claims Irc q1

Description: Expenses disability Claims in Period from first

quarter event

Help:

Modified On: 2/12/2024 4:04:12 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Claims
Column Header: expense_claims_lrc_q1

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum

Sum

Find

Yes

Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.199 expense_claims_lrc_q2

Description: Expenses disability Claims in Period from

seconde quarter event

Help:

Modified On: 2/12/2024 4:04:32 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Claims
Column Header: expense_claims_lrc_q2

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Rebase Type:

Sum

Sum

Fund

Sum

Cash Flow

Previous

Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.200 expense_claims_lrc_q3

Description: Expenses Disability Claims in Period from third

quarter event

Help:

Modified On: 2/12/2024 4:04:44 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Claims
Column Header: expense_claims_lrc_q3

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

Discount Use:

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.201 expense_claims_lrc_q4

Description: Expenses Disability Claims in Period from forth

quarter event

Help:

Modified On: 2/12/2024 4:04:52 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Claims
Column Header: expense_claims_lrc_q4

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.202 expense_claims_lrc_yr2plus

Description: Expenses Disability Claims in Period that not

from first year event

Help:

Modified On: 2/12/2024 4:04:59 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Claims
Column Header: expense claims Irc yr2plus

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

Periods:

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

Yes

False

5.3.3.2.203 nogt annpv

Description: Just for output

Help:

Modified On: 8/12/2024 12:31:19 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Cashflows|Outgo|Claims

Column Header: nogt_annpv
Combine Groups By: Sum Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

Pind

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.204 surr_penalty_e_bef

Description: Surrender penalty inforce, end of period

Help:

Modified On: 11/17/2022 4:46:21 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Claims
Column Header: surr_penalty_e_bef

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

Sum

Find

No

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.205 surr value

Description: Surrender value inforce

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Claims

Column Header: surr_value
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.206 comm hekef

Description: First year lump sum commission with clawback

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Commission

Column Header: comm_hekef
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1

Discount Timing: Beginning
Discount Use: Yes

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.207 comm_nihul

Description: nihul commission
Help: Nihul Commission

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Commission

Column Header: comm_nihul
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1

Discount Timing:

Discount Use:

Rate Use:

Rebase Type:

Retain Value:

Override:

Beginning

Yes

Cash Flow

Current

Yes

False

Virtual: False

5.3.3.2.208 comm_nihul_pv

Modified On:

Description: PV of nihul commissions

Help: PV of (EXTRA commissions less clawback) at

the "discount rate", at the beginning of the

period.

The discount rate in the experience model is

the embedded value discount rate. 6/8/2023 3:29:03 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Cashflows|Outgo|Commission

Column Header: comm_nihul_pv
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: 0
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

Description: PV of commissions - expect reserve

commission

Help:

Modified On: 9/12/2022 3:23:02 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Cashflows|Outgo|Commission

Column Header: comm_not_res_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

0

End

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.210 comm_prize

Description: First year lump sum commission

Help:

Modified On: 11/17/2022 5:29:40 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Commission

Column Header: comm_prize
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1

Discount Timing:

Discount Use:

Rate Use:

Rebase Type:

Beginning

Yes

Cash Flow

Current

Rebase Type: Curre
Retain Value: Yes

Override: False Virtual: False

5.3.3.2.211 comm_pv

Description: PV of commissions

Help:

Modified On:

Modified On: 9/12/2019 2:49:47 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Category: Cashflows|Outgo|Commission

Column Header: comm_pv
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: 0
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.212 comm_reg_riders_out_pv

Description: נוכחי ערך ריידר שוטפות עמלות

Help: PV of (EXTRA commissions less clawback) at

the "discount rate", at the beginning of the

period.

The discount rate in the experience model is

the embedded value discount rate. 6/8/2023 3:29:41 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Cashflows|Outgo|Commission
Column Header: comm_reg_riders_out_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

0

End

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.213 comm_regular

Description: Regular commission

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Commission

Column Header: comm_regular
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1

Discount Timing:

Discount Use:

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Beginning

Yes

Cash Flow

Current

Yes

False

5.3.3.2.214 comm renewal

Description: Renewal commission

Help:

Modified On: 3/13/2025 10:41:04 AM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Cashflows|Outgo|Commission

Column Header: comm_renewal
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1

Discount Timing:

Discount Use:

Beginning

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.215 comm renewal pv

Description: PV of renewal commissions

Help:

Modified On: 1/11/2023 10:16:46 AM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Cashflows|Outgo|Commission

Column Header: comm_renewal_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

0

End

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.216 comm reserve

Description: Reserve commission

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Commission

Column Header: comm_reserve
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.217 comm reserve pv

Description: PV of reserve commissions

Help:

Modified On: 9/12/2019 4:17:32 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Category: Cashflows|Outgo|Commission

Column Header: comm_reserve_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

No

Rate Use: Cash Flow Rebase Type: Current Yes Override: False Virtual: False

5.3.3.2.218 comm total

Description: total commission

Modified On: 1/11/2023 10:14:04 AM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Cashflows|Outgo|Commission

Column Header: comm_total
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1

Discount Timing:

Discount Use:

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Beginning

Yes

Cash Flow

Previous

Yes

False

Description: PV of reinsurance profit

Help:

Modified On: 9/12/2019 4:08:25 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Category: Cashflows|Outgo|Commission

Column Header: profit_re_pv
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.220 comm clawback

Description: Commission clawback

Help:

Modified On: 1/11/2023 7:02:58 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Commission|Clawback

Column Header: comm_clawback

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Sum

-1

Discount Timing:

Discount Use:

Beginning

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.221 comm hekef cum

Description: cumul of hekef commissions

Help:

Modified On: 1/11/2023 7:02:58 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Commission|Clawback

Column Header: comm_hekef_cum

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Last

-1

Discount Timing: Beginning

Discount Use: No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.222 exp total

Description: Total expenses

Help:

Modified On: 11/17/2022 5:32:36 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Expenses

Column Header: expense_total
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1

Discount Timing:

Discount Use:

Beginning

Yes

Rate Use:
Cash Flow
Rebase Type:
Previous
Retain Value:
Yes
Override:
Virtual:
False

5.3.3.2.223 expense inflation

Description: Accumulated Expense Inflation

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Cashflows|Outgo|Expenses

Column Header: expense_inflation

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.224 expense_pv

Description: PV of expenses

Help:

Modified On: 12/9/2021 12:36:40 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Expenses

Column Header: expense_pv
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.225 expense_total_pre_ret

Description: Total expenses before retirement

Help:

Modified On: 11/17/2022 5:32:36 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Expenses
Column Header: expense_total_pre_ret

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Sum

-1

Discount Timing:

Discount Use:

Beginning

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.226 expense total pre ret no inv

Description: Total expenses before retirement w/o

investment expenses

Help:

Modified On: 11/17/2022 5:32:36 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Expenses
Column Header: expense total pre ret no inv

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Sum

-1

Discount Timing:

Discount Use:

Beginning

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

Yes

False

5.3.3.2.227 expense_var_pv

Description: PV of overhead expenses (variable expenses)

Help:

Modified On: 11/17/2022 5:32:36 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Expenses

Column Header: expense_var_pv
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1

Discount Timing: Beginning

Discount Use: No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.228 expense_init_fix_cvr

Description: Fixed Initial expenses (per cover)

Modified On: 1/18/2023 5:04:26 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Expenses|Initial

Column Header: expense_init_fix_cvr

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Sum

-1

Discount Timing:

Discount Use:

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Beginning

Yes

Cash Flow

Previous

Yes

False

5.3.3.2.229 expense_initial_fix

Description: Fixed Initial expenses

Help:

Modified On: 11/17/2022 5:32:07 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Expenses|Initial

Column Header: expense_initial_fix

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Sum

-1

Discount Timing:

Discount Use:

Beginning

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.230 expense initial fix pol

Description: Fixed Initial expenses (per policy)

Help:

Modified On: 11/17/2022 5:32:07 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Expenses|Initial

Column Header: expense_initial_fix_pol

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Sum

-1

Discount Timing: Beginning
Discount Use: Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.231 expense initial perc

Description: Variable Initial expenses

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Expenses|Initial

Column Header: expense_initial_perc

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum

-1

Discount Timing:

Discount Use:

Beginning

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.232 expense claims

Description: ExpensVariable claim expensese Clm Perc

Help:

Modified On: 11/17/2022 4:49:51 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Expenses|Other expenses

Column Header: expense_claims
Combine Groups By: Sum Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.233 expense claims pv

Description: PV of claim expenses

Modified On: 10/26/2021 10:53:37 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Expenses|Other expenses

Column Header: expense_claims_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.234 expense_clm_perc

Description: ExpensVariable claim expensese Clm Perc

Help:

Modified On: 11/17/2022 4:41:40 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Expenses|Other expenses

Column Header: expense_clm_perc

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

No

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.235 expense clms fix

Description: Fixed claims expenses

Help:

Modified On: 12/8/2021 3:02:27 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Expenses|Other expenses

Column Header: expense_clms_fix

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

No

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.236 expense_pv_ann

Description: PV of expense_ren_perc_ann (Variable

renewal expenses from annuity)

Help:

Modified On: 9/29/2022 2:38:10 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Cashflows|Outgo|Expenses|Other expenses

Column Header: expense_pv_ann
Combine Groups By: Sum Both
Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

No

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

Yes

False

5.3.3.2.237 expense_ren_fix_pv

Description: PV of fixed renewal expenses

Help:

Modified On: 3/6/2025 4:56:08 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Cashflows|Outgo|Expenses|Other expenses

Column Header: expense ren fix pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.238 expense_ren_perc_pv

Description: PV of % renewal expenses

Modified On: 3/9/2025 11:02:02 AM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Cashflows|Outgo|Expenses|Other expenses

Column Header: expense_ren_perc_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.239 comm_reg_riders_out

Description: Additional commission for riders "out" of profil

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Expenses|Renewal

Column Header: comm_reg_riders_out

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Sum

-1

Discount Timing:

Discount Use:

Beginning

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.240 expense_ren_charge

Description: Variable renewal expenses on charges

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Expenses|Renewal

Column Header: expense_ren_charge

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Sum

-1

Discount Timing:

Discount Use:

Beginning

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.241 expense ren fix

Description: Fixed Renewal expenses

Help:

Modified On: 6/8/2021 4:42:21 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Expenses|Renewal

Column Header: expense_ren_fix
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1

Discount Timing:

Discount Use:

Beginning

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.242 expense ren fix cvr

Description: Fixed Renewal expenses (per cover)

Help:

Virtual:

Modified On: 5/29/2025 11:33:21 AM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Cashflows|Outgo|Expenses|Renewal

Column Header: expense_ren_fix_cvr

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Sum

-1

Discount Timing:

Discount Use:

Rate Use:

Rebase Type:

Retain Value:

Override:

Beginning

Yes

Cash Flow

Previous

Yes

False

5.3.3.2.243 expense ren fix pol

Description: Fixed Renewal expenses (per policy)

False

Modified On: 5/29/2025 11:33:56 AM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Cashflows|Outgo|Expenses|Renewal

Column Header: expense_ren_fix_pol

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Sum

-1

Discount Timing:

Discount Use:

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Beginning

Yes

Cash Flow

Previous

Yes

False

5.3.3.2.244 expense_ren_fix_pup

Description: Fixed Renewal expenses (PUP policies)

Help:

Modified On: 5/29/2025 11:34:31 AM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Cashflows|Outgo|Expenses|Renewal

Column Header: expense_ren_fix_pup

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Sum

-1

Discount Timing:

Discount Use:

Beginning

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.245 expense_ren_perc

Description: Variable renewal expenses

Help:

Modified On: 3/31/2025 9:02:01 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Cashflows|Outgo|Expenses|Renewal

Column Header: expense_ren_perc

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Sum

-1

Discount Timing: Beginning
Discount Use: Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.246 expense ren perc ann

Description: Variable renewal expenses from annuity

Help:

Modified On: 12/8/2021 8:56:18 AM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Expenses|Renewal

Column Header: expense_ren_perc_ann

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Sum

-1

Discount Timing:

Discount Use:

Rate Use:

Beginning

Yes

Cash Flow

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flo

Cash Flo

Frevious

Fes

False

5.3.3.2.247 expense_ren_perc_bef_ret

Description: Variable renewal expenses before retirement

Help:

Virtual:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Expenses|Renewal

Column Header: expense_ren_perc_bef_ret

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Sum

-1

Discount Timing:

Discount Use:

Rate Use:

Rebase Type:

Retain Value:

Override:

Beginning

Yes

Cash Flow

Previous

Yes

False

5.3.3.2.248 expense ren perc bef ret no inv

Description: Variable renewal expenses before retirement

False

w/o investment expenses

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Expenses|Renewal Column Header: expense_ren_perc_bef_ret_no_inv

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Sum

-1

Discount Timing:

Discount Use:

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Beginning

Yes

Cash Flow

Previous

Yes

False

5.3.3.2.249 comm_claw_spv

Description: Supervisor commission clawback

Help:

Modified On: 1/11/2023 7:02:58 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Expenses|Supervisors

Commission

Column Header: comm_claw_spv

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Last

-1

Discount Timing:

Discount Use:

Beginning

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.250 comm_spv_cum

Description: Cumulated supervisor commissions

Help:

Modified On: 1/11/2023 7:02:58 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Expenses|Supervisors

Commission

Column Header: comm_spv_cum
Combine Groups By: Sum Both
Combine Periods: Last

Default sliding Size: 0

Discount Timing: Beginning Discount Use: No

Rate Use: Cash Flow Current Rebase Type: Retain Value: Yes Override: False Virtual: False

5.3.3.2.251 comm supervisor

Description: supervisor commission

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Outgo|Expenses|Supervisors

Commission

comm_supervisor Column Header:

Sum Both Combine Groups By: Combine Periods: Sum Default sliding Size: -1

Discount Timing: Beginning Yes

Discount Use:

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False False Virtual:

5.3.3.2.252 reserve_increase

Description: Increase in total reserve

Help:

1/11/2023 7:47:17 PM (UTC+02:00) Modified On:

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Reserve Increase

reserve_increase Column Header:

Combine Groups By: Sum Both Sum Combine Periods: -1 Default sliding Size: End **Discount Timing:** Discount Use: Yes Rate Use: Cash Flow

Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.253 reserve increase bef ret

Description: Increase in total reserve before retirement

Help:

Modified On: 7/7/2024 4:31:30 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Cashflows|Outgo|Reserve Increase

Column Header: reserve_increase_bef_ret

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.254 reserve_increase_pv

Description: PV of Increase in total reserve

Help:

Modified On: 10/26/2021 11:14:37 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Reserve Increase

Column Header: reserve_increase_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

End

Yes

Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.255 reserve_total_increase_pv

Description: PV of Total Reserve Increase

Help: PV of Total increase in (net) reserves. Modified On: 11/17/2022 4:50:03 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Reserve Increase

Column Header: reserve_total_increase_pv

Combine Groups By: Sum Both Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

False

False

5.3.3.2.256 cashflow

Description: Cashflow profit for the period

Help:

Modified On: 12/8/2021 8:28:00 AM (UTC+02:00)

Modified By: CLAL-INS\joshm Category: Cashflows|Profit

Column Header: cashflow
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.257 cashflow_b

Description: Income minus outgo at beg of period

Help:

Modified On: 10/5/2021 2:20:41 PM (UTC+03:00)

Modified By: CLAL-INS\joshm
Category: Cashflows|Profit
Column Header: cashflow_b
Combine Groups By: Sum Both
Combine Periods: Sum

Default sliding Size: -1

Discount Timing:

Discount Use:

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Beginning

Yes

Cash Flow

Previous

Yes

False

False

5.3.3.2.258 cashflow e

Description: Income minus outgo at end of period

Help:

Modified On: 10/5/2021 2:20:35 PM (UTC+03:00)

Modified By:
Category:
Cashflows|Profit
Column Header:
Combine Groups By:
Combine Periods:
Default sliding Size:
Discount Timing:

CLAL-INS\joshm
Cashflows|Profit
Cashflow_e
Sum Both
Sum
-1
End

Discount Use: Yes
Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.259 cashflow_profit

Description:

Help:

Modified On: 12/8/2021 8:27:42 AM (UTC+02:00)

Modified By: CLAL-INS\joshm Category: Cashflows|Profit Column Header: cashflow profit Combine Groups By: Sum Both Combine Periods: Sum Default sliding Size: -1 **Discount Timing:** End Yes Discount Use: Cash Flow Rate Use: Current

Rebase Type: Curre
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.260 cashflow_profit_bef_ret

Description: Cashflow profit for the period before retirement

Help:

Modified On: 11/17/2022 4:40:00 PM (UTC+02:00)

Modified By: CLAL-INS\joshm Category: Cashflows|Profit

Column Header: cashflow_profit_bef_ret

Combine Groups By: Sum Both Combine Periods: Sum

Default sliding Size:

Discount Timing:

Discount Use:

-1

End

Yes

Rate Use:

Rebase Type:

Current

Retain Value:

Override:

Virtual:

Cash Flow

Current

Yes

False

5.3.3.2.261 profit_book_active_vif

Description: Before Tax Profit (cashflow basis for MCEV) of

policy active period (VIF Profit)

Help: After Tax Profit (cashflow basis for MCEV)

without DAC (VIF Profit)

Modified On: 9/12/2024 11:17:04 AM (UTC+03:00)

Modified By: CLAL-INS\arikt Category: Cashflows|Profit Column Header: profit bk act vif Combine Groups By: Sum Both Combine Periods: Sum Default sliding Size: -1 **Discount Timing:** End Discount Use: Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow
Previous
Yes
False
False

5.3.3.2.262 profit_book_bef_ret

Description: Profit Book Bef Ret

Help:

Modified On: 9/12/2024 11:17:59 AM (UTC+03:00)

Modified By: CLAL-INS\arikt
Category: Cashflows|Profit
Column Header: profit_book_bef_ret

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.263 **profit_book_vif**

Description: Before Tax Profit (cashflow basis for MCEV)

without DAC (VIF Profit)

Help: After Tax Profit (cashflow basis for MCEV)

without DAC (VIF Profit)

Modified On: 9/12/2024 11:18:27 AM (UTC+03:00)

Modified By:
Category:
Cashflows|Profit
Column Header:
Combine Groups By:
Combine Periods:
Default sliding Size:
Discount Timing:

CLAL-INS\arikt
Cashflows|Profit
profit_book_vif
Sum Both
Sum
-1

Discount Use: Yes
Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.264 profit_book_vif_bef_ret

Description: Before Tax Profit (cashflow basis for MCEV)

without DAC (VIF Profit) before retirement

Help: After Tax Profit (cashflow basis for MCEV)

without DAC (VIF Profit)

Modified On: 9/12/2024 11:18:50 AM (UTC+03:00)

Modified By: CLAL-INS\arikt
Category: Cashflows|Profit
Column Header: profit book vif_bef_ret

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum

Sum

Find

Yes

Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.265 profit book vif gross

Description: Profit Book Vif Gross

Help:

Modified On: 12/8/2021 3:19:12 PM (UTC+02:00)

Modified By: CLAL-INS\joshm
Category: Cashflows\Profit
Column Header: profit_book_vif_gross

Sum Both Combine Groups By: Combine Periods: Sum Default sliding Size: -1 End **Discount Timing:** Discount Use: Yes Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.266 profit book vif gross pv

Description: Profit Book Vif Gross Pv

Help:

Modified On: 10/26/2021 11:13:02 AM (UTC+03:00)

Modified By: CLAL-INS\joshm Category: Cashflows|Profit

Column Header: profit_book_vif_gross_pv

Combine Groups By: Sum Both Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Yes Discount Use: Rate Use: Cash Flow **Previous** Rebase Type: Retain Value: Yes

Override: False Virtual: False

5.3.3.2.267 profit book vif post ret

Description: Before Tax Profit (cashflow basis for MCEV)

without DAC (VIF Profit) after retirement

Help: After Tax Profit (cashflow basis for MCEV)

without DAC (VIF Profit)

Modified On: 11/17/2022 4:44:55 PM (UTC+02:00)

Modified By: CLAL-INS\joshm Category: Cashflows|Profit

Column Header: profit_book_vif_post_ret

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.268 profit_book_vif_pv_pos

Description: Profit Book Vif Pv Pos

Help:

Modified On: 7/31/2023 6:08:22 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa
Category: Cashflows|Profit
Column Header: profit_book_vif_pv_pos

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

End

Yes

Cash Flow

Rate Use: Cash Flo
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.269 profit gross vif

Description: Profit Gross Vif

Help:

Modified On: 8/28/2022 4:37:14 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa
Category: Cashflows|Profit
Column Header: profit_net_vif_gross

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum

Sum

Flow

Sum

Sum

Flow

Cash Flow

Cash Flow

Rate Ose:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flo

Cash Flo

Previous

Yes

Yes

False

5.3.3.2.270 profit gross vif pv

Description: Profit Gross Vif Pv

Modified On: 10/26/2021 11:13:50 AM (UTC+03:00)

Modified By: CLAL-INS\joshm Category: Cashflows|Profit

Column Header: profit_net_vif_gross_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

Yes

Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.271 profit_net_vif

Description: After Tax Profit (cashflow basis for MCEV)

without DAC (VIF Profit)

Help: After Tax Profit (cashflow basis for MCEV)

End

without DAC (VIF Profit)

Modified On: 1/8/2025 12:21:48 PM (UTC+02:00)

Modified By: CLAL-INS\arikt
Category: Cashflows|Profit
Column Header: profit_net_vif
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1

Discount Use: Yes
Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.272 profit_vif_net_bef_ret

Description: Profit Vif Net Bef Ret

Help:

Discount Timing:

Modified On: 8/28/2022 4:37:32 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa
Category: Cashflows|Profit
Column Header: profit_vif_net_bef_ret

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both
Sum
-1

Discount Timing: End
Discount Use: Yes
Rate Use: Casl

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.273 comm_dac

Description: Deferrable commission for DAC

Help:

Modified On: 4/9/2024 5:49:45 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt
Category: Cashflows|Profit|DAC

Column Header: comm_dac
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1

Discount Timing: Beginning

Discount Use: No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.274 dac_book

Description: DAC (books)

Help:

Modified On: 7/12/2021 12:55:59 PM (UTC+03:00)

Modified By: CLAL-INS\joshm
Category: Cashflows|Profit|DAC

Column Header: dac_book
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.275 dac_il_book

Description: DAC books (Israeli GAAP)

Help:

Modified On: 1/11/2023 6:58:10 PM (UTC+02:00)

Modified By: CLAL-INS\joshm
Category: Cashflows|Profit|DAC

Column Header: dac_il_book
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.276 dac_il_tax

Description: DAC tax (Israeli TAX/STAT)

Help:

Modified On: 1/11/2023 7:44:06 PM (UTC+02:00)

Modified By: CLAL-INS\joshm
Category: Cashflows|Profit|DAC

Column Header: dac_il_tax
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.277 dac_increase

Description: Increase in DAC books

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Cashflows|Profit|DAC

Column Header: dac_increase
Combine Groups By: Sum Both
Combine Periods: Sum

Default sliding Size:

Discount Timing:

Discount Use:

-1

End

Yes

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.278 dac_tax

Description: Dac for tax purposes

Help:

Modified On: 1/11/2023 6:58:10 PM (UTC+02:00)

Modified By: CLAL-INS\joshm
Category: Cashflows|Profit|DAC

Column Header: dac_tax
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.279 dac_tax_increase

Description: Increase in DAC for tax

Help:

Modified On: 8/9/2021 4:07:13 PM (UTC+03:00)

Modified By: CLAL-INS\joshm
Category: Cashflows|Profit|DAC
Column Header: dac_tax_increase

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum

Sum

Find

Sum

Sum

Cash Flow

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.280 exp_dac

Description: expenses used for DAC calculation

Help:

Modified On: 11/17/2022 5:32:36 PM (UTC+02:00)

Modified By: CLAL-INS\joshm
Category: Cashflows|Profit|DAC

Column Header: exp_dac
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1

Discount Timing: Beginning
Discount Use: Yes

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.281 zillmer_book

Description: Zillmer for reported surplus

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt
Category: Cashflows|Profit|DAC

Column Header: zillmer_book
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

Description: Zillmer for tax purposes

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt
Category: Cashflows|Profit|DAC

Column Header: zillmer_tax
Combine Groups By: Sum Both
Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.283 bor_acc

Description: Bor accumulated for active UNIT policies

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Charges
Column Header: bor_acc
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes
Rate Use: Cash Flow

Rate Use: Cash Flo
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.284 bor_acc_pup

Description: Bor accumulated for paid-up UNIT policies

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Charges
Column Header: bor_acc_pup
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End

Discount Use:

Rate Use:
Cash Flow
Rebase Type:
Previous
Retain Value:
Yes
Override:
False
Virtual:
False

5.3.3.2.285 bor_har_retire

Description: Management Fees Accum/Deficiency at

retirement

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Charges

bor_har_retire

Sum Both

Last

-1

End

Discount Use: Yes
Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.286 bor_return

Description: Bor returned for active policies

Help:

Modified On: 9/25/2024 12:44:48 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Charges
Column Header: bor_return
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.287 bor_return_pup

Description: Bor returned for paid-up policies

Help:

Modified On: 3/26/2025 12:24:39 PM (UTC+02:00)

Modified By: CLAL-INS\arikt

Category: Charges

Column Header: bor_return_pup
Combine Groups By: Sum Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

Pind

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.288 har acc

Description: Har accumulated for active policies

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:
Column Header:
Combine Groups By:
Combine Periods:
Default sliding Size:
Discount Timing:
Discount Use:

Charges
har_acc
Sum Both
Last
Last
-1
End
Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.289 har_acc_pup

Description: Har accumulated for paid-up policies

Help:

Modified On: 3/26/2025 12:52:54 PM (UTC+02:00)

Modified By: CLAL-INS\arikt

Category: Charges
Column Header: har_acc_pup
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End

Discount Use: Yes
Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.290 har_return

Description: Har returned for active policies

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Charges
Column Header: har_return
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.291 har_return_pup

Description: Har returned for paid-up policies

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Charges

Column Header: har return pup Combine Groups By: Sum Both Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Yes Discount Use: Cash Flow Rate Use: Previous Rebase Type:

Retain Value:

Override:

Virtual:

Yes

False

5.3.3.2.292 manage_fees_fixe_active_pv

Description: PV of fixed management fees for active policies

Help:

Modified On: 10/18/2021 12:38:54 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Charges

Column Header: manage_fees_fixed_active_pv

Combine Groups By: Sum Both Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

-1

End

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow
Previous
Yes
False
False

5.3.3.2.293 manage_fees_fixed_ann_pv

Description: PV of fixed management fees for annuity stage

Help:

Modified On: 6/29/2021 11:20:49 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Charges

Column Header: management_fees_fixed_ann_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.294 manage_fees_fixed_ann_pv_def

Description: Management Fees Fixed Pv Deferred

Help:

Modified On: 6/29/2021 11:20:03 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Charges

Column Header: manage fees fixed ann pv def

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

End

Yes

Cash Flow

Rate Use: Cash Flo
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.295 manage_fees_fixed_ann_pv_ip

Description: Management Fees Fixed Pv Inpayment

Help:

Modified On: 10/18/2021 12:39:09 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Charges

Column Header: manage_fees_fixed_ann_pv_ip

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

Piscount Timing:

Piscount Use:

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

False

False

5.3.3.2.296 manage_fees_var_active_pv

Description: PV of variable management fees for active

policies

Help:

Modified On: 10/18/2021 12:39:15 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Charges

Column Header: manage_fees_var_active_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

End

Yes

Cash Flow

Rate Use: Cash Flo
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.297 manage_fees_var_ann_pv

Description: PV of variable management fees for annuity

stage

Help:

Modified On: 6/29/2021 11:22:01 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Charges

Column Header: management_fees_var_ann_pv

Combine Groups By: Sum Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

Pind

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

False

False

5.3.3.2.298 manage_fees_var_ann_pv_def

Description: Management Fees Variable Pv Deferred

Help:

Modified On: 11/17/2022 4:43:37 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Charges

Column Header: manage_fees_var_ann_pv_def

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Peter Mee:

Comb Flow

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.299 manage fees var ann pv ip

Description: Management Fees Variable Pv Inpayment

Help:

Modified On: 10/18/2021 12:39:25 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Charges

Column Header: manage_fees_var_ann_pv_ip

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

Piscount Size:

An April 1997

Control 199

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.300 management fee variable

Description: Variable management fees for active UNIT

policies

Help:

Modified On: 9/25/2024 12:44:48 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Charges

Column Header: management_fee_variable

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

Periods:

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

False

False

5.3.3.2.301 management_fee_variable_pup

Description: Variable management fees for paid-up UNIT

policies

Help:

Modified On: 9/25/2024 12:45:06 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Charges

Column Header: management_fee_variable_pup

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum

Sum

Find

Sum

Sum

Cash Flow

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

Yes

False

5.3.3.2.302 management_fees_fixed_active

Description: Fixed management fees for active policies

Help:

Modified On: 4/10/2024 11:59:32 AM (UTC+03:00)

Modified By: CLAL-INS\Arikt

Category: Charges

Column Header: management_fees_fixed_active

Combine Groups By: Sum Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum
-1

Pind
Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.303 management_fees_fixed_ann

Description: Fixed management fees for annuity stage

Help:

Modified On: 10/2/2022 10:59:19 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Charges

Column Header: management_fees_fixed_ann

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Pate Use:

Sum

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.304 management fees var active

Description: Variable management fees for active policies

Help:

Modified On: 4/10/2024 11:58:22 AM (UTC+03:00)

Modified By: CLAL-INS\Arikt

Category: Charges

Column Header: management_fees_var_active

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.305 management_fees_var_ann

Description: Variable management fees for annuity stage

Help:

Modified On: 10/2/2022 10:59:58 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Charges

Column Header: management_fees_var_ann

Combine Groups By: Sum Both Combine Periods: Sum Default sliding Size: -1 **Discount Timing:** End Discount Use: Yes

Cash Flow Rate Use: Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.306 net interest rate

Description: Interest rate net of fixed management fees

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Charges

Column Header: net interest rate

Sum Both Combine Groups By: Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Discount Use: Yes Cash Flow Rate Use: Previous Rebase Type: Retain Value: Yes

Override: False Virtual: False

5.3.3.2.307 new_pup_har_ret

Description: Help:

Modified On: 3/26/2025 12:17:33 PM (UTC+02:00)

Modified By: CLAL-INS\arikt

Category: Charges

Column Header: new pup har ret

Combine Groups By: Sum Both Last

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.308 cashflow_pv_inpay

Description: Cashflow Pv AnnInpayment

Help:

Modified On: 8/30/2021 2:54:38 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Claims

Column Header: cashflow_pv_inpay

Combine Groups By:
Combine Periods:
Default sliding Size:
Discount Timing:
Discount Use:

Sum Both
Last
Last
-1
End
Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.309 cashflow_pv_inpay_chetz

Description: Cashflow Pv AnnInpayment chetz

Help:

Modified On: 7/14/2024 2:15:06 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Claims

Column Header: cashflow_pv_inpay_chetz

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Pate Meet

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.310 cashflow_pv_inpay_e

Description: Cashflow Pv AnnInpayment discounted EOP

Help:

Modified On: 7/19/2022 3:20:58 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Claims

Column Header: cashflow_pv_inpay_e

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

False

False

5.3.3.2.311 claims_annuity_nogt_pv_inpay

Description: Claims Annuity Pv Inpayment (non-guaranteed)

Help:

Modified On: 10/26/2021 10:51:45 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Claims

Column Header: claims_annuity_nogt_pv_inpay

Sum Both Combine Groups By: Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Discount Use: Yes Cash Flow Rate Use: Previous Rebase Type: Retain Value: Yes Override: False False Virtual:

5.3.3.2.312 claims_annuity_pv_inpay

Description: Claims Annuity Pv Inpayment

Help:

Modified On: 8/15/2021 4:12:36 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Claims

Column Header: claims_annuity_pv_inpay

Combine Groups By: Sum Both Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

False

False

5.3.3.2.313 claims_lrc_yr2plus_pv

Description: PV of Disability Claims after first year

Help:

Modified On: 2/12/2024 4:05:32 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Claims

Column Header: claims_lrc_yr2plus_pv

Combine Groups By:
Combine Periods:
Default sliding Size:
Discount Timing:
Discount Use:

Sum Both
Last
-1
End
Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.314 claims_pv_not_annuity

Description: Claims Pv (Not Annuity)

Help:

Modified On: 8/15/2021 4:12:42 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Claims

Column Header: claims_pv_not_annuity

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

End

Yes

Cash Flow

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.315 claims_rate_per

Description: Claims Rate Per

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Claims

Column Header: claims_rate_per
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.316 expense_pv_inpay

Description: Expense Pv AnnInpayment

Help:

Modified On: 10/26/2021 10:54:39 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Claims

Column Header: expense_pv_inpay

Sum Both Combine Groups By: Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Yes Discount Use: Cash Flow Rate Use: Previous Rebase Type: Retain Value: Yes Override: False Virtual: False

5.3.3.2.317 investment_income_pv_inpay

Description: Investment Income Pv AnnInpayment

Help:

Modified On: 10/26/2021 10:56:16 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Claims

Column Header: investment_income_pv_inpay

Combine Groups By: Sum Both Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

-1

End

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

False

False

5.3.3.2.318 outgo_pv_inpay

Description: Outgo Pv AnnInpayment

Help:

Modified On: 10/26/2021 11:11:18 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Claims

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Coutgo_pv_inpay

Sum Both

Last

-1

End

Yes

Cash Flow

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flo

Previous

Yes

Yes

False

5.3.3.2.319 profit_book_pv_inpay

Description: Profit Book Pv AnnInpayment

Help:

Modified On: 10/26/2021 11:12:12 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Claims

Column Header: profit_book_pv_inpay

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

End

Yes

Cash Flow

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flo
Previous
Yes
Previous
Yes
False

5.3.3.2.320 profit_book_vif_pv_inpay

Description: Profit Book Vif Pv AnnInpayment

Help:

Modified On: 10/26/2021 11:13:35 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Claims

Column Header: profit_book_vif_pv_inpay

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

False

False

5.3.3.2.321 profit_net_vif_pv_inpay

Description: Net Profit Vif Pv AnnInpayment

Help:

Modified On: 10/26/2021 11:14:19 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Claims

Column Header: profit_net_vif_pv_inpay

Sum Both Combine Groups By: Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Discount Use: Yes Cash Flow Rate Use: Previous Rebase Type: Retain Value: Yes Override: False False Virtual:

5.3.3.2.322 reserve_increase_pv_inpay

Description: Reserve increase Pv AnnInpayment

Help:

Modified On: 10/26/2021 11:14:55 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Claims

Column Header: reserve_increase_pv_inpay

Combine Groups By: Sum Both Combine Periods: Last

Default sliding Size:

Discount Timing:

End

Discount Use:

Yes

Rate Use:

Rebase Type:

Retain Value:

Yes

5.3.3.2.323 comm_clawback_pv

Description: Comm Clawback Pv

Help:

Override: Virtual:

Modified On: 9/12/2019 4:27:32 PM (UTC+03:00)

False

False

Modified By: CLAL-INS\NinaB

Category: Clawback

Column Header: comm_clawback_pv

Combine Groups By:
Combine Periods:
Default sliding Size:
Discount Timing:
Discount Use:

Sum Both
Last
-1
End
Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.324 comm_reg_pv

Description: Comm Regular Pv

Help:

Modified On: 6/8/2023 3:27:30 PM (UTC+03:00)

Modified By:

Category:

Column Header:

Combine Groups By:

Combine Periods:

CLAL-INS\ahuvaa

Commission

comm_reg_pv

Sum Both

Last

Default sliding Size:

Discount Timing:

Discount Use:

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.325 decrement_rate_unit

Description: Decrement Rate for units (active stage)

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt Category: Decrements

Column Header: decrement_rate_unit

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.326 decrement_rate_unit_pup

Description: Decrement Rate for units (paid-up stage)

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt Category: Decrements

Column Header: decrement_rate_unit_pup

Combine Groups By: Sum Both Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Discount Use: Yes Cash Flow Rate Use: Previous Rebase Type: Retain Value: Yes Override: False

5.3.3.2.327 duration_denominator

Description: Denominator for calculation of duration

False

Help:

Virtual:

Modified On: 1/11/2023 7:46:07 PM (UTC+02:00)

Modified By: CLAL-INS\joshm Category: Decrements

Column Header: duration_denominator

Combine Groups By: Sum Both Combine Periods: Last

Default sliding Size: -1 End **Discount Timing:** Discount Use: Yes

Cash Flow Rate Use: Rebase Type: **Previous** Retain Value: Yes False Override: Virtual: False

5.3.3.2.328 duration_numerator

Description: Numerator for calculation of duration

Help:

1/11/2023 7:46:13 PM (UTC+02:00) Modified On:

Modified By: CLAL-INS\joshm Category: Decrements

Column Header: duration numerator

Sum Both Combine Groups By: Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Discount Use: Yes

Cash Flow Rate Use: Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.329 surv_act_bal

Proportion of active policies premium paying -Description:

No

on balance exposure

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt Category: **Decrements** surv_act_bal Column Header: Sum Both Combine Groups By: Combine Periods: Last -1 Default sliding Size: End **Discount Timing:**

Discount Use: Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.330 surv_act_bal_bef_ret

Description: Proportion of active policies - before retirement

- on balance exposure

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt Category: Decrements

Column Header: surv_act_bal_bef_ret

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.331 surv_act_cnt

Description: Proportion of active policies premium paying -

on count exposure

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt Category: **Decrements** Column Header: surv act cnt Sum Both Combine Groups By: Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Discount Use: No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.332 surv act cnt bef ret

Description: Proportion of active policies - before retirement

- on count exposure

Help:

Modified On: 1/12/2023 12:26:05 PM (UTC+02:00)

Modified By: CLAL-INS\joshm Category: Decrements

Column Header: surv act cnt bef ret

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.333 surv_act_post_ret

Description: Proportion of active policies

Help:

Modified On: 1/12/2023 9:57:09 AM (UTC+02:00)

Modified By: CLAL-INS\joshm
Category: Decrements
Column Header: surv_act_post_ret

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.334 surv act prm

Description: Proportion of active policies premium paying -

on premium exposure

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By:
Category:
Column Header:
Combine Groups By:
Combine Periods:
Default sliding Size:

CLAL-INS\Arikt
Decrements
Surv_act_prm
Sum Both
Last
-1

Discount Timing: End
Discount Use: No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False

Virtual: False

5.3.3.2.335 surv_act_prm_bef_ret

Description: Proportion of active policies - before retirement

- on premium exposure

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt Category: Decrements

Column Header: surv_act_prm_bef_ret

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.336 surv_bal

Description: Propn of lives in force at end of time t - on

balance exposure

Help:

Discount Use:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By:

Category:

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

CLAL-INS\Arikt

Decrements

surv_bal

Sum Both

Last

-1

End

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.337 surv_bal_bef_ret

Description: Propn of lives in force at end of time t - before

No

retirement - on balance exposure

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt
Category: Decrements
Column Header: surv_bal_bef_ret
Combine Groups By: Sum Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.338 surv cnt

Description: Propn of lives in force at end of time t - on count

exposure

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt Category: **Decrements** Column Header: surv cnt Combine Groups By: Sum Both Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Discount Use: No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.339 surv_cnt_bef_ret

Description: Propn of lives in force at end of time t - before

retirement - on count exposure

Help:

Modified On: 1/12/2023 12:26:13 PM (UTC+02:00)

Modified By: CLAL-INS\joshm Category: Decrements
Column Header: surv_cnt_bef_ret

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.340 surv per act bal

Description: Prob of staying active for period - on balance

exposure

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By:
Category:
Column Header:
Combine Groups By:
CLAL-INS\Arikt
Decrements
surv_per_act_bal
Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.341 surv_per_act_bal_bef_ret

Description: Prob of staying active for period - before

retirement - on balance exposure

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt Category: Decrements

Column Header: surv_per_act_bal_bef_ret

Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.342 surv_per_act_cnt

Description: Prob of staying active for period - on count

exposure

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By:

Category:

Column Header:

Combine Groups By:

CLAL-INS\Arikt

Decrements

surv_per_act_cnt

Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.343 surv_per_act_cnt_bef_ret

Description: Prob of staying active for period - before

retirement - on count exposure

Help:

Modified On: 1/12/2023 12:26:01 PM (UTC+02:00)

Modified By: CLAL-INS\joshm Category: Decrements

Column Header: surv_per_act_cnt_bef_ret

Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.344 surv per act prm

Description: Prob of staying active for period - on premium

exposure

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt Category: Decrements

Column Header: surv per act prm

Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

End

Discount Use:

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.345 surv per act prm bef ret

Description: Prob of staying active for period - before

retirement - on premium exposure

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt Category: Decrements

Column Header: surv_per_act_prm_bef_ret

Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.346 surv_per_bal

Description: Probability of survival for the period - on

balance exposure

Help:

Modified On: 1/11/2023 7:05:22 PM (UTC+02:00)

Modified By: CLAL-INS\joshm
Category: Decrements
Column Header: surv_per_bal
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes

Override: False Virtual: False

5.3.3.2.347 surv_per_bal_bef_ret

Description: Probability of survival for the period - before

retirement - on balance exposure

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt Category: Decrements

Column Header: surv_per_bal_bef_ret

Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.348 surv_per_cnt

Description: Probability of survival for the period - on count

exposure

Help:

Modified On: 1/11/2023 7:06:04 PM (UTC+02:00)

Modified By: CLAL-INS\joshm
Category: Decrements
Column Header: surv_per_cnt
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.349 surv_per_prm_bef_ret

Description: Probability of survival for the period - before

retirement - on premium exposure

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt Category: Decrements

Column Header: surv_per_prm_bef_ret

Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.350 surv prm

Description: Propn of lives in force at end of time t - on

premium exposure

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt Category: Decrements Column Header: surv_prm Combine Groups By: Sum Both Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Discount Use: No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.351 surv_prm_bef_ret

Description: Propn of lives in force at end of time t - before

retirement - on premium exposure

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt
Category: Decrements
Column Header: surv_prm_bef_ret

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Sum Both

Last

-1

End

Discount Use: No

Cash Flow Rate Use: Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.352 surv_pup_bal

Description: Propn of paid-up policies at end of t - on

balance exposure

Help:

Modified On: 1/17/2023 10:31:22 AM (UTC+02:00)

Modified By: CLAL-INS\joshm Category: **Decrements** Column Header: surv pup bal Combine Groups By: Sum Both Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End

Discount Use: Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.353 surv_pup_bal_bef_ret

Description: Propn of paid-up policies at end of t - before

No

retirement - on balance exposure

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt Category: Decrements

Column Header: surv_pup_bal_bef_ret

Combine Groups By: Sum Both Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Discount Use: No

Rate Use: Cash Flow Current Rebase Type: Retain Value: Yes Override: False Virtual: False

5.3.3.2.354 surv_pup_cnt

Description: Propn of paid-up policies at end of t - on count

exposure

No

Help:

Discount Use:

Modified On: 1/17/2023 10:31:42 AM (UTC+02:00)

Modified By:
Category:
Decrements
Column Header:
Combine Groups By:
Combine Periods:
Default sliding Size:
Discount Timing:

CLAL-INS\joshm
Decrements
surv_pup_cnt
Sum Both
Last
-1
End

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.355 surv_pup_cnt_bef_ret

Description: Propn of paid-up policies at end of t - before

retirement - on count exposure

Help:

Modified On: 1/12/2023 12:26:10 PM (UTC+02:00)

Modified By: CLAL-INS\joshm Category: Decrements

Column Header: surv_pup_cnt_bef_ret

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.356 surv_pup_post_ret

Description: Propn of paid-up policies at end of t

Help:

Modified On: 8/29/2021 1:18:56 PM (UTC+03:00)

Modified By: CLAL-INS\joshm Category: Decrements

Column Header: surv_pup_post_ret

Combine Groups By: Sum Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

No

Rate Use: Cash Flow Rebase Type: Current Yes Override: False Virtual: False

5.3.3.2.357 surv_pup_prm

Description: Propn of paid-up policies at end of t - on

premium exposure

Help:

Discount Use:

Modified On: 1/11/2023 7:02:58 PM (UTC+02:00)

Modified By:

Category:

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

CLAL-INS\joshm

Decrements

surv_pup_prm

Sum Both

Last

-1

End

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.358 surv_pup_prm_bef_ret

Description: Propn of paid-up policies at end of t - before

No

retirement - on premium exposure

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt Category: Decrements

Column Header: surv_pup_prm_bef_ret

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False

Virtual: False

5.3.3.2.359 death_rate

Description: Independent monhtly death rate

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt
Category: Decrements|Death

Column Header: death_rate
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.360 lapse factor

Description: factor applied to alapse rates, by aggent and

year

Help:

Modified On: 12/14/2022 4:52:26 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa Category: Decrements|Lapse

Column Header: lapse_factor
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.361 lapse_rate_act_bal

Description: Monthly Lapse rate in period - for active policy -

with balance exposure

Help:

Modified On: 12/19/2024 4:04:12 PM (UTC+02:00)

Modified By: CLAL-INS\arikt

Category: Decrements|Lapse
Column Header: lapse_rate_act_bal
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.362 lapse_rate_act_bal_dep

Description: Dependent lapse rate - for active policies - on

balance exposure

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt
Category: Decrements|Lapse
Column Header: lapse rate act bal dep

Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.363 lapse_rate_act_cnt

Description: Monthly Lapse rate in period - for active policy -

with count exposure

Help:

Modified On: 12/19/2024 4:02:01 PM (UTC+02:00)

Modified By: CLAL-INS\arikt
Category: Decrements|Lapse
Column Header: lapse_rate_act_cnt
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

No

Rate Use: Cash Flow

Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.364 lapse_rate_act_cnt_dep

Description: Dependent lapse rate - for active policies - on

count exposure

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt
Category: Decrements|Lapse
Column Header: lapse_rate_act_cnt_dep

Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.365 lapse_rate_act_prm

Description: Monthly Lapse rate in period - for active policy -

with premium exposure

Help:

Modified On: 12/19/2024 4:03:29 PM (UTC+02:00)

Modified By: CLAL-INS\arikt
Category: Decrements|Lapse
Column Header: lapse_rate_act_prm
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.366 lapse_rate_act_prm_dep

Description: Dependent lapse rate - for active policies - on

premium exposure

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt
Category: Decrements|Lapse
Column Header: lapse_rate_act_prm_dep

Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.367 lapse_rate_pup_bal

Description: Lapse rate in period for pup policies - with

balance exposure

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt
Category: Decrements|Lapse
Column Header: lapse_rate_pup_bal
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

0

Middle

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.368 lapse rate pup bal dep

Description: Dependent lapse rate for pups - on balance

exposure

Help:

Modified On: 1/11/2023 6:54:51 PM (UTC+02:00)

Modified By: CLAL-INS\joshm
Category: Decrements|Lapse
Column Header: lapse_rate_pup_bal_dep

Combine Groups By: Average Both

Combine Periods:LastDefault sliding Size:0Discount Timing:EndDiscount Use:No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

Description: Lapse rate in period for pup policies - with count

exposure

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt
Category: Decrements|Lapse
Column Header: lapse_rate_pup_cnt
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

0

Middle

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.370 lapse_rate_pup_cnt_dep

Description: Dependent lapse rate for pups - on count

exposure

Help:

Modified On: 1/11/2023 6:54:42 PM (UTC+02:00)

Modified By: CLAL-INS\joshm
Category: Decrements|Lapse
Column Header: lapse_rate_pup_cnt_dep

Combine Groups By: Average Both

Combine Periods:LastDefault sliding Size:0Discount Timing:EndDiscount Use:No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes

Override: False Virtual: False

Description: Lapse rate in period for pup policies - with

premium exposure

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt
Category: Decrements|Lapse
Column Header: lapse_rate_pup_prm
Combine Groups By: Average Both

Combine Periods:LastDefault sliding Size:0Discount Timing:MiddleDiscount Use:No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

Description: total lapses including surrenders and paid-up -

monthly rates - on balance exposure

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt
Category: Decrements|Lapse
Column Header: lapse_total_bal
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

Description: total lapses including surrenders and paid-up -

monthly rates - on premium exposure

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt
Category: Decrements|Lapse
Column Header: lapse_total_prm
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.374 pup_rate_bal

Description: Premium cessation rate in period (monthly) - for

balance exposure

Help:

Modified On: 5/11/2025 5:03:46 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa Category: Decrements|Pups Column Header: pup_rate_bal Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.375 pup_rate_bal_dep

Description: Dependent pup rate - on balance exposure

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt
Category: Decrements|Pups
Column Header: pup_rate_bal_dep
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.376 pup rate cnt

Description: Premium cessation rate in period (monthly) - for

count exposure

Help:

Modified On: 5/11/2025 5:04:03 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa Category: Decrements|Pups Column Header: pup_rate_cnt Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

Description: Dependent pup rate - on count exposure

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt
Category: Decrements|Pups
Column Header: pup_rate_cnt_dep
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

Description: Premium cessation rate in period (monthly) - for

premium exposure

Help:

Modified On: 5/11/2025 5:04:09 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa Category: Decrements|Pups Column Header: pup_rate_prm Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.379 **pup_rate_prm_dep**

Description: Dependent pup rate - on premium exposure

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt
Category: Decrements|Pups
Column Header: pup_rate_prm_dep
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.380 expense_investment

Description: Expense Investment

Help:

Modified On: 4/4/2023 9:50:40 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Expenses

Column Header: expense_investment

Combine Groups By: Sum Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum
-1

Pind
Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.381 expense_investment_bef_ret

Description: Expense Investment before retirement

Help:

Modified On: 9/18/2022 9:39:13 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Expenses

Column Header: expense_investment_bef_ret

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.382 expense investment post ret

Description: Expense Investment after retirement

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt Category: Expenses

Column Header: expense_investment_post_ret

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

Yes

5.3.3.2.383 expense investment pv

Description: Expense Investment Pv

Help:

Modified On: 9/18/2022 10:07:13 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Expenses

Column Header: expense_investment_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

False

False

5.3.3.2.384 expense_investment_pv_bef_ret

Description: Expense Investment Pv before retirement

Help:

Modified On: 9/14/2022 1:50:24 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Expenses

Column Header: expense_investment_pv_bef_ret

Combine Groups By: Sum Both Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Discount Use: Yes Cash Flow Rate Use: Previous Rebase Type: Retain Value: Yes Override: False False Virtual:

5.3.3.2.385 expense_investment_pv_post_ret

Description: Expense Investment Pv after retirement

Help:

Modified On: 9/29/2022 2:35:42 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Expenses

Column Header: expense_investment_pv_post_ret

Combine Groups By: Sum Both Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

-1

End

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow
Previous
Yes
False
False

5.3.3.2.386 expense_ren_charge_pv

Description: Expense Ren Charge Pv

Help:

Modified On: 10/26/2021 10:54:55 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Expenses

Column Header: expense_ren_charge_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.387 benefits_b_prm

Description: No of in force benefits (begin of month) - on

premium exposure

Help:

Modified On: 1/11/2023 7:21:58 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Inforce Details|Number of Covers

Column Header: benefits_b_prm
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1

Discount Timing:

Discount Use:

No

5.3.3.2.388 policies b

Description: No of in force policies (beg of month)

Help:

Modified On: 1/11/2023 8:02:55 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Inforce Details|Number of Covers

Column Header: policies_b
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1

Discount Timing: Beginning

Discount Use: No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.389 policies_pup_b

Description: No of in force pup policies (beg of mont

Help:

Modified On: 1/11/2023 8:03:52 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Inforce Details|Number of Covers

Column Header: policies_pup_b
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: 0

Discount Timing: Beginning

Discount Use: No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.390 policy_deaths

Description: No of policies expiring due to death

Help:

Modified On: 1/11/2023 7:02:58 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Inforce Details|Number of Covers

Column Header: policy_deaths
Combine Groups By: Sum Both
Combine Periods: Sum

Default sliding Size:

Discount Timing:

Discount Use:

No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.391 policy_surr

Description: No of policies expiring due to surrender

Help:

Modified On: 1/11/2023 8:04:16 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Inforce Details|Number of Covers

Column Header: policy_surr
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

Description: Claims - retention

Help:

Modified On: 6/10/2024 7:01:50 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt

Category: Inforce Details|Sum Assured

Column Header: claims_retent
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1
Discount Timing: End
Discount Use: No

5.3.3.2.393 sum_at_risk_claim

Description: Sum at risk for death claims (non-PUPs)

Help:

Modified On: 1/11/2023 6:58:10 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Inforce Details|Sum Assured

Column Header: sum_at_risk_claim

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.394 sum_insured

Description: Sum insured - undecremented

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Inforce Details|Sum Assured

Column Header: sum_insured
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.395 **sum_insured_if_e**

Description: Sum insured in force (end of month)

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Inforce Details|Sum Assured

Column Header: sum_insured_if_e

Combine Groups By: Sum Both Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.396 sum_insured_occ_gross

Description: Sum insured - including occupation loading

Help:

Modified On: 4/11/2024 2:50:13 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt

Category: Inforce Details|Sum Assured Column Header: sum_insured_occ_gross

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.397 sum_insured_occ_retent

Description: Sum insured - including occupation loading -

retention

Help:

Modified On: 4/11/2024 2:53:08 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt

Category: Inforce Details|Sum Assured Column Header: sum_insured_occ_retent

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

5.3.3.2.398 alloc_units

Description: Premium allocation to units

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Inforce Details|Unit Fund

Column Header: alloc_units
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1

Discount Timing:

Discount Use:

Beginning

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.399 interest_units_e

Description: Interest credited to units

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Inforce Details|Unit Fund

Column Header: interest_units_e
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

Yes

False

5.3.3.2.400 units_b

Description: Unit account after allocation (beg)

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Inforce Details|Unit Fund

Column Header: units_b
Combine Groups By: Sum Both
Combine Periods: Last

Default sliding Size: -1

Discount Timing: Beginning

Discount Use: No

Cash Flow Rate Use: Rebase Type: Previous Retain Value: Yes False Override: Virtual: False

5.3.3.2.401 units_b_active

Description: Units at beginning of period for active policies

Help:

Modified On: 4/30/2020 3:32:46 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Category: Inforce Details|Unit Fund

Column Header: units_b_active Combine Groups By: Sum Both Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Discount Use: Yes

Cash Flow Rate Use: Rebase Type: **Previous** Retain Value: Yes Override: False Virtual: False

5.3.3.2.402 units_b_bef

Description: Unit account before allocation (beg)

Help:

Modified On: 11/17/2022 4:46:44 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Inforce Details|Unit Fund

Column Header: units b bef Combine Groups By: Sum Both Combine Periods: Last Default sliding Size: -1

Discount Timing: Beginning No

Discount Use:

5.3.3.2.403 units_b_bef_pup_acc

Description: Accum units for new PUPs

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Inforce Details|Unit Fund Column Header: units_b_bef_pup_acc

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.404 units_b_bef_pup_sav

Description: Accum saving units for new PUPs

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Inforce Details|Unit Fund Column Header: units_b_bef_pup_sav

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.405 units_b_pup

Description: Units at beginning of period for paid-up policies

Help:

Modified On: 4/30/2020 3:33:39 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Category: Inforce Details|Unit Fund

Column Header: units_b_pup
Combine Groups By: Sum Both
Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.406 units_bon

Description: Extra units from persistency bonus

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Inforce Details|Unit Fund

Column Header: units_bon
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.407 units_e

Description: Unit account after fees (end)

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Inforce Details|Unit Fund

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

units_e

Sum Both

Last

-1

End

No

5.3.3.2.408 units_e_bef

Description: Unit account before fees (end)

Help:

Modified On: 11/17/2022 4:47:05 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Inforce Details|Unit Fund

Column Header: units_e_bef
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.409 units_e_hon

Description: HON Money (post 2000) Unit account after fees

(end)

Help: Accumulation of hon money (to calculate

annuity deficiency reserve and cost).
Assumes that 1) new premium goes to kizba

money,

2) surrenders are taken

proportionately from hon and kizba money

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Inforce Details|Unit Fund

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

units_e_hon

Sum Both

Last

-1

End

No

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.410 units e hon active

Description: Active HON Money (post 2000) Unit account

after fees (end)

Modified On:

Modified On:

Help: Accumulation of hon money (to calculate

annuity deficiency reserve and cost).

Assumes that 1) new premium goes to kizba

money,

2) surrenders are taken

proportionately from hon and kizba money

12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Inforce Details|Unit Fund Column Header: units e hon active

Combine Groups By: Sum Both Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Discount Use: No

Cash Flow Rate Use: Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.411 units_e_hon_pup

Description: Paid-up Money (post 2000) Unit account after

fees (end)

Help: Accumulation of hon money (to calculate

annuity deficiency reserve and cost).

Assumes that 1) new premium goes to kizba

money,

2) surrenders are taken

proportionately from hon and kizba money 12/11/2023 2:43:58 PM (UTC+02:00)

Inforce Details|Unit Fund

Modified By: CLAL-INS\Arikt

Category: Column Header: units_e_hon_pup

Combine Groups By: Sum Both

Combine Periods: Last Default sliding Size: -1 End **Discount Timing:** Discount Use: No

5.3.3.2.412 units_e_kiz

Modified On:

Description: Kitzbati Money (post 2000) Unit account after

fees (end)

Help: Accumulation of hon money (to calculate

annuity deficiency reserve and cost).

Assumes that 1) new premium goes to kizba

money,

2) surrenders are taken

proportionately from hon and kizba money 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Inforce Details|Unit Fund

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Units_e_kiz

Sum Both

Last

-1

End

No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.413 units_e_new

Description: New Money (post 2000) Unit account after fees

(end)

Help: Accumulation of old money (to calculate annuity

deficiency reserve and cost).

Assumes that 1) new premium goes to new

money,

2) surrenders are taken from new

money

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Inforce Details|Unit Fund

Column Header: units_e_new
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

5.3.3.2.414 units_e_newtag

Description: New Tagmulim Money (post 2000) Unit account

after fees (end)

Help: Accumulation of old money (to calculate annuity

deficiency reserve and cost).

Assumes that 1) new premium goes to new

money,

2) surrenders are taken from new

money

Modified On: 2/26/2025 12:32:12 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa
Category: Inforce Details|Unit Fund

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

units_e_newtag

Sum Both

Last

-1

End

No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.415 units_e_old

Description: Old Money (pre 2000) Unit account after fees

(end)

Help: Accumulation of old money (to calculate annuity

deficiency reserve and cost).

Assumes that 1) new premium goes to new

money,

2) surrenders are taken from new

money

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Inforce Details|Unit Fund

Column Header: units_e_old
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

5.3.3.2.416 units_e_old_active

Description: Active Old Money (pre 2000) Unit account after

fees (end)

Help: Accumulation of old money (to calculate annuity

deficiency reserve and cost).

Assumes that 1) new premium goes to new

money,

2) surrenders are taken from new

money

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Inforce Details|Unit Fund Column Header: units_e_old_active

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.417 units_e_old_pup

Description: Paid-up Old Money (pre 2000) Unit account

after fees (end)

Help: Accumulation of old money (to calculate annuity

deficiency reserve and cost).

Assumes that 1) new premium goes to new

money,

2) surrenders are taken from new

money

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Inforce Details|Unit Fund

Column Header: units_e_old_pup
Combine Groups By: Sum Both

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

Last

Last

Find

No

5.3.3.2.418 units_e_piz

Description: Pizuim Money (post 2000) Unit account after

fees (end)

Help: Accumulation of old money (to calculate annuity

deficiency reserve and cost).

Assumes that 1) new premium goes to new

money,

2) surrenders are taken from new

money

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Inforce Details|Unit Fund

Column Header: units_e_piz
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.419 units_e_piz_active

Description: New Pizuim Money (active) (post 2000) Unit

account after fees (end)

Help: Accumulation of old money (to calculate annuity

deficiency reserve and cost).

Assumes that 1) new premium goes to new

money,

2) surrenders are taken from new

money

Modified On: 2/26/2025 12:33:29 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa
Category: Inforce Details|Unit Fund
Column Header: units_e_piz_active

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

5.3.3.2.420 units_e_piz_newprems

Description: New Pizuim Money (new prems) (post 2000)

Unit account after fees (end)

Help: Accumulation of old money (to calculate annuity

deficiency reserve and cost).

Assumes that 1) new premium goes to new

money,

2) surrenders are taken from new

money

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Inforce Details|Unit Fund Column Header: units_e_piz_newprems

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.421 units_e_piz_pup

Description: New Pizuim Money (pup) (post 2000) Unit

account after fees (end)

Help: Accumulation of old money (to calculate annuity

deficiency reserve and cost).

Assumes that 1) new premium goes to new

money,

2) surrenders are taken from new

money

Modified On: 2/26/2025 12:34:21 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa
Category: Inforce Details|Unit Fund

Column Header: units_e_piz_pup
Combine Groups By: Sum Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

No

5.3.3.2.422 units_e_prat

Description: Prat Money (post 2000) Unit account after fees

(end)

Help: Accumulation of old money (to calculate annuity

deficiency reserve and cost).

Assumes that 1) new premium goes to new

money,

2) surrenders are taken from new

money

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Inforce Details|Unit Fund

Column Header: units_e_prat
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.423 units_e_prat_active

Description: New Prat Money (active) (post 2000) Unit

account after fees (end)

Help: Accumulation of old money (to calculate annuity

deficiency reserve and cost).

Assumes that 1) new premium goes to new

money,

2) surrenders are taken from new

money

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Inforce Details|Unit Fund Column Header: units_e_prat_active

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

5.3.3.2.424 units_e_prat_newprems

Description: New Prat Money (new prems) (post 2000) Unit

account after fees (end)

Help: Accumulation of old money (to calculate annuity

deficiency reserve and cost).

Assumes that 1) new premium goes to new

money,

2) surrenders are taken from new

money

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Inforce Details|Unit Fund Column Header: units_e_prat_newprems

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.425 units_e_prat_pup

Description: New Prat Money (pup) (post 2000) Unit account

after fees (end)

Help: Accumulation of old money (to calculate annuity

deficiency reserve and cost).

Assumes that 1) new premium goes to new

money,

2) surrenders are taken from new

money

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Inforce Details|Unit Fund

Column Header: units_e_prat_pup

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

5.3.3.2.426 prem_termination_prop

Description: proportion stopping to pay premium

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Lapses

Column Header: prem_termination_prop

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.427 mort year

Description: Mort Year for key for mort tables

Help:

Combine Periods:

Modified On: 7/26/2021 2:41:41 PM (UTC+03:00)

Last

Modified By: CLAL-INS\joshm

Category: Mortality
Column Header: mort_year
Combine Groups By: Average Both

Default sliding Size: -1 **Discount Timing:** End Discount Use: Yes Cash Flow Rate Use: Previous Rebase Type: Retain Value: Yes Override: False False Virtual:

5.3.3.2.428 basic_perc

Description: Proportion of premium for basic Adif (be

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By:

Category:

Column Header:

Combine Groups By:

Combine Periods:

CLAL-INS\Arikt

Policy Details

basic_perc

Sum Both

Last

Default sliding Size: -1

Discount Timing: Beginning

Discount Use: No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.429 age_last

Description: Age last birthday

Help:

Modified On: 11/30/2023 5:57:09 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Policy Details|Insured Details

Column Header: age_last
Combine Groups By: Average Both

Combine Periods: Last Default sliding Size: -1

Discount Timing: Beginning

Discount Use: No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.430 interest_re_lrc_q1

Description: interest re for q1 event

Help:

Modified On: 12/2/2024 3:07:28 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Policy Details|Insured Details

Column Header: interest_re_lrc_q1

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

Yes

5.3.3.2.431 interest_re_lrc_q2

Description: interest re for q2 event

Help:

Modified On: 12/2/2024 3:07:30 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Policy Details|Insured Details

Column Header: interest_re_lrc_q2

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

Yes

False

Description: interest re for q3 event

Help:

Modified On: 12/2/2024 3:07:15 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Policy Details|Insured Details

Column Header: interest_re_lrc_q3

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum

-1

End

Yes

Cash Flow

Rate Use: Cash Flo
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

Description: interest re for q4 event

Help:

Modified On: 12/2/2024 3:07:38 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Policy Details|Insured Details

Column Header: interest_re_lrc_q4

Combine Groups By: Sum Both Combine Periods: Sum

Default sliding Size:

Discount Timing:

Discount Use:

-1

End

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow
Previous
Yes
False
False

5.3.3.2.434 interest_re_lrc_yr2plus

Description: interest re from second year event

Help:

Modified On: 12/2/2024 3:07:58 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Policy Details|Insured Details
Column Header: interest_re_lrc_yr2plus

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.435 riskadj_gross

Description: calc of risk adj. as sum of all scenarios

Help:

Modified On: 9/10/2024 7:36:17 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Policy Details|Insured Details

Column Header: riskadj_gross
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End

5.3.3.2.436 riskadj_gross_rel_q1

Description: riskadj gross for q1 event

Help:

Modified On: 12/2/2024 10:37:52 AM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Policy Details|Insured Details

Column Header: riskadj_gross_rel_q1

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.437 riskadj_gross_rel_q2

Description: riskadj gross for q2 event

Help:

Modified On: 12/2/2024 2:28:39 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Policy Details|Insured Details

Column Header: riskadj_gross_rel_q2

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Cash Flow
Rebase Type:

Sum

Sum

Fund

Sum

Fund

Cash Flow

Previous

Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.438 riskadj_gross_rel_q3

Description: riskadj gross for q3 event

Help:

Modified On: 12/2/2024 2:43:37 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Policy Details|Insured Details

Column Header: riskadj_gross_rel_q3

Combine Groups By: Sum Both Combine Periods: Sum

Default sliding Size:

Discount Timing:

Discount Use:

-1

End

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow
Previous
Yes
False
False

5.3.3.2.439 riskadj_gross_rel_q4

Description: riskadj gross for q4 event

Help:

Modified On: 12/2/2024 2:43:46 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Policy Details|Insured Details

Column Header: riskadj_gross_rel_q4

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

Ves

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.440 riskadj_gross_rel_total

Description: riskadj release - non discounted

Help:

Modified On: 8/6/2024 3:57:48 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Policy Details|Insured Details

Column Header: riskadj gross rel_total

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum

-1

End

Yes

Cash Flow

5.3.3.2.441 riskadj_gross_rel_yr2plus

Description: riskadj gross from second year event

Help:

Modified On: 12/2/2024 2:36:39 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Policy Details|Insured Details
Column Header: riskadj_gross_rel_yr2plus

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.442 riskadj_net

Description: calc of risk adj. as sum of all scenarios

Help:

Modified On: 3/17/2024 9:56:08 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Policy Details|Insured Details

riskadj net Column Header: Sum Both Combine Groups By: Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Discount Use: Yes Rate Use: Cash Flow Previous Rebase Type: Retain Value: Yes Override: False

5.3.3.2.443 riskadj_re

Description: calc of risk adj. as sum of all scenarios

False

Help:

Virtual:

Modified On: 9/10/2024 7:32:00 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Policy Details|Insured Details

Column Header: riskadj_re
Combine Groups By: Sum Both
Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

-1

End

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

False

False

5.3.3.2.444 riskadj_re_rel_q1

Description: riskadj re for q1 event

Help:

Modified On: 12/2/2024 2:39:26 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Policy Details|Insured Details

Column Header: riskadj_re_rel_q1
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

Description: riskadj net for q2 event

Help:

Modified On: 12/2/2024 2:39:59 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Policy Details|Insured Details

Column Header: riskadj_re_rel_q2

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

Yes

Description: riskadj re for q3 event

Help:

Modified On: 12/2/2024 2:40:16 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Policy Details|Insured Details

Column Header: riskadj_re_rel_q3
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

False

False

Description: riskadj re for q4 event

Help:

Modified On: 12/2/2024 2:40:39 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Policy Details|Insured Details

Column Header: riskadj_re_rel_q4

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Rebase Type:

Sum

Sum

Fund

Sum

Cash Flow

Frevious

Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.448 riskadj_re_rel_total

Description: riskadj release re - non discounted

Help:

Modified On: 8/6/2024 3:58:54 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Policy Details|Insured Details

Column Header: riskadj_re_rel_total

Combine Groups By: Sum Both Combine Periods: Sum

Default sliding Size:

Discount Timing:

Discount Use:

-1

End

Yes

Rate Use:
Cash Flow
Rebase Type:
Previous
Retain Value:
Yes
Override:
Virtual:
False

5.3.3.2.449 riskadj_re_rel_yr2plus

Description: riskadj re from second year event

Help:

Modified On: 12/2/2024 2:41:05 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Policy Details|Insured Details

Column Header: riskadj_re_rel_yr2plus

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

No

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.450 premium_if_b

Description: Premium I.F. at start of month excluding

premium for risk rider

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Policy Details|Premium

Column Header: premium_if_b
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1

Discount Timing: Beginning

Discount Use: No

5.3.3.2.451 premium_if_b_total

Description: Total premium in force at start of period

Help:

Modified On: 1/11/2023 7:17:40 PM (UTC+02:00)

Modified By: CLAL-INS\joshm
Category: Policy Details|Premium

Column Header: premium_if
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1

Discount Timing:

Discount Use:

No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.452 premium_if_e

Description: Premium in force at end of period

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Policy Details|Premium

Column Header: premium_if_e
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.453 premium_if_riders

Description: Premium in force at start of period for risk rider

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Policy Details|Premium Column Header: premium_if_riders

Combine Groups By: Sum Both Combine Periods: Sum

Default sliding Size: -1

Discount Timing: Beginning

Discount Use: No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.454 alloc_units_honi

Description: Alloc Units Honi

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Premium

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Sum

-1

End

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.455 alloc_units_newtag

Description: Alloc Units Newtag

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt Category: Premium

Column Header: alloc_units_newtag

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum

Sum

Find

Yes

Cash Flow

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flo
Previous

Previous

False

5.3.3.2.456 alloc_units_piz

Description: Alloc Units Pizuim

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Premium
Column Header: alloc_units_piz
Combine Groups By: Sum Both
Combine Periods: Sum
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.457 alloc_units_prat

Description: Alloc Units Prat

Help:

Modified On: 2/29/2024 10:02:43 AM (UTC+02:00)

Modified By: CLAL-INS\yonis

Category: Premium

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

False

False

5.3.3.2.458 premium_inc

Description: premium increase - based on sal_inc table

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt Category: Premium

Column Header: premium_inc
Combine Groups By: Average Both

Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.459 **sum_ins_inc**

Description: Sum insured increase - based on sal_inc table

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Premium
Column Header: sum_ins_inc
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.460 sum_ins_inc_acc

Description: Cummulative Sum insured increase - based on

sal_inc table

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt Category: Premium

Column Header: sum_ins_inc_acc
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.461 prem_disc_shimur_rate

Description: Calculates shimur rate

Help:

Modified On: 3/11/2025 9:30:26 AM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa
Category: Premium discounts
Column Header: prem_disc_shimur_rate

Combine Groups By: Average Both

Combine Periods: Last Default sliding Size: -1

Discount Timing: Beginning
Discount Use: Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.462 be retire

Description: PV of be reserve at retirement...

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt
Category: Profitability Measures

Column Header: ber_retire
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.463 cashflow_gross_pv_pos

Description: PV of cashflows - gross - ony if positive

Help:

Modified On: 3/26/2023 2:15:06 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa
Category: Profitability Measures
Column Header: cashflow gross pv pos

Combine Groups By: Sum Both Combine Periods: Sum

Default sliding Size:

Discount Timing:

Discount Use:

No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.464 cashflow_pv

Description: PV of cashflows.

Help:

Modified On: 3/22/2023 2:24:59 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa
Category: Profitability Measures

Column Header: cashflow_pv
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.465 cashflow_pv_chetz

Description: PV of cashflows discounted using chetz rates

Help:

Modified On: 7/14/2024 2:07:43 PM (UTC+03:00)

Modified By: CLAL-INS\arikt
Category: Profitability Measures
Column Header: cashflow_pv_chetz

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.466 cashflow pv e

Description: PV of cashflows with all components being

discounted EOP

Help:

Modified On: 9/22/2022 11:31:28 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa
Category: Profitability Measures

Column Header: cashflow_pv_e
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

Description: PV of cashflows - ony if positive

Help:

Modified On: 3/26/2023 2:15:22 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa
Category: Profitability Measures
Column Header: cashflow_pv_pos

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

Yes

False

5.3.3.2.468 profit_bk_act_vif_pv

Description: PV of Book Profit (end of month) VIF basis of

avtive period

Help:

Modified On: 10/26/2021 11:11:44 AM (UTC+03:00)

Modified By: CLAL-INS\joshm
Category: Profitability Measures
Column Header: profit_bk_act_vif_pv

Combine Groups By: Sum Both

Combine Periods: Last Default sliding Size: -1

Discount Timing:

Discount Use:

No

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow
Previous
Yes
Yes
False

5.3.3.2.469 profit book vif pv

Description: PV of Book Profit (end of month) VIF basis

Help:

Modified On: 10/26/2021 11:13:10 AM (UTC+03:00)

Modified By: CLAL-INS\joshm
Category: Profitability Measures
Column Header: profit_book_vif_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Last

-1

Discount Timing: Beginning

Discount Use: No

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.470 profit net vif pv

Description: VIF - PV After Tax Profit on cashflow basis

(end of month)

Help:

Modified On: 8/12/2024 12:43:35 PM (UTC+03:00)

Modified By: CLAL-INS\arikt
Category: Profitability Measures
Column Header: profit_net_vif_pv
Combine Groups By: Sum Both

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum

Last

-1

Discount Timing: Beginning

Discount Use: No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.471 ret_prop_col

Description: Ret Prop Col

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab
Category: Profitability Measures

Column Header: ret_prop_col
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow
Previous
Yes
Previous
Yes
False

Description: Cashflow Re B

Help:

Modified On: 8/6/2024 6:52:59 PM (UTC+03:00)

Modified By:

Category:

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

CLAL-INS\arikt
Reinsurance
cashflow_re_b
Sum Both
Sum
-1

Discount Use:

Rate Use:
Cash Flow
Rebase Type:
Previous
Retain Value:
Yes
Override:
False
Virtual:
False

Description: Cashflow Re E

Help:

Modified On: 9/12/2024 11:14:51 AM (UTC+03:00)

Modified By: CLAL-INS\arikt Category: Reinsurance Column Header: cashflow_re_e Combine Groups By: Sum Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum
-1

End

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.474 claims_re

Description: Reinsurance Claims Paid

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt Reinsurance Category: Column Header: claims re Combine Groups By: Sum Both Combine Periods: Sum Default sliding Size: 0 **Discount Timing:** End Discount Use: Yes

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.475 comm re

Description: Initial and renewal reins commission

Help:

Modified On: 1/5/2025 3:17:00 PM (UTC+02:00)

Modified By:

Category:

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

CLAL-INS\arikt

Reinsurance

comm_re

Sum Both

Sum

0

Discount Timing:

Discount Use:

Beginning

Yes

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.476 comm_re_prof

Description: Reinsurance profit commission

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By:

Category:

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

CLAL-INS\Arikt

Reinsurance

comm_re_prof

Sum Both

Sum

0

Discount Timing: Beginning
Discount Use: Yes

Rate Use: Cash Flow Rebase Type: Current Yes Override: False Virtual: False

5.3.3.2.477 interest re

Description: Interest on reinsurance reserve

Help:

Modified On: 9/12/2024 11:35:50 AM (UTC+03:00)

Modified By:

Category:

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

CLAL-INS\arikt
Reinsurance
interest_re
Sum Both
Sum
0

Discount Timing:

Discount Use:

Rate Use:

Cash Flow

Pebase Type:

Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

Description: PV of Interest on reinsurance reserve

Help:

Modified On: 10/26/2021 10:55:17 AM (UTC+03:00)

Modified By:

Category:

Column Header:

Combine Groups By:

Combine Periods:

CLAL-INS\joshm
Reinsurance
interest_re_pv
Sum Both
Last

Default sliding Size: 0

Discount Timing:

Discount Use:

Rate Use:

Rebase Type:

Retain Value:

Override:

Beginning

Yes

Cash Flow

Current

Yes

False

5.3.3.2.479 premium_re

Description: Reins Premium income at begin. of period

False

Help:

Virtual:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By:

Category:

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

CLAL-INS\Arikt

Reinsurance

premium_re

Sum Both

Sum

0

Discount Timing:

Discount Use:

Beginning

Yes

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.480 rein_claims_pv

Description: PV of reinsurance claims

Help:

Modified On: 9/12/2019 4:10:18 PM (UTC+03:00)

Modified By:

Category:

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

CLAL-INS\NinaB

Reinsurance

rein_claims_pv

Sum Both

Last

-1

Discount Timing: End
Discount Use: No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.481 rein_comm_pv

Description: PV of reinsurance commission

Help:

Discount Use:

Modified On: 9/12/2019 4:10:37 PM (UTC+03:00)

No

No

Modified By:
Category:
Reinsurance
Column Header:
Combine Groups By:
Combine Periods:
Default sliding Size:
Discount Timing:
CLAL-INS\NinaB
Reinsurance
rein_comm_pv
Sum Both
Last
-1
End

Rate Use: Cash Flow Rebase Type: Current Yes
Override: False
Virtual: False

5.3.3.2.482 rein_prem_pv

Description: PV of reinsurance premium

Help:

Discount Use:

Modified On: 9/12/2019 4:10:57 PM (UTC+03:00)

Modified By:

Category:

Reinsurance

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

CLAL-INS\NinaB

Reinsurance

rein_prem_pv

Sum Both

Last

-1

Discount Timing:

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.483 reserve_re

Description: Reinsurance reserves

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By:

Category:

Column Header:

Combine Groups By:

Combine Periods:

CLAL-INS\Arikt

Reinsurance

reserve_re

Sum Both

Last

Default sliding Size:

Discount Timing:

Discount Use:

-1

End

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow
Previous
Yes
False
False

5.3.3.2.484 reserve_re_increase

Description: Increase in reinsurance reserve

Help:

Modified On: 9/12/2024 11:37:03 AM (UTC+03:00)

Modified By: CLAL-INS\arikt Category: Reinsurance

Column Header: reserve_re_increase

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum

-1

End

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.485 reserve_re_increase_pv

Description: PV of Increase in reinsurance reserve

Help:

Modified On: 8/6/2024 7:43:57 PM (UTC+03:00)

Modified By: CLAL-INS\arikt Category: Reinsurance

Column Header: reserve_re_increase_pv

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

End

Yes

Cash Flow

Rate Use: Cash Flo
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.486 startup

Description: Startup

Help:

Modified On: 8/12/2024 11:24:19 AM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Setup
Column Header: startup
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.3.2.487 cal duration

Description: Calendar duration (in years) of policy

Help:

Modified On: 1/5/2025 3:26:30 PM (UTC+02:00)

Modified By: CLAL-INS\arikt

Category: Timing
Column Header: cal_duration
Combine Groups By: Average Both

Combine Periods: Last Default sliding Size: -1

Discount Timing: Beginning

Discount Use: No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.488 cal_month

Description: Month of the calendar year

Help:

Modified On: 8/15/2021 2:47:28 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Timing
Column Header: cal_month
Combine Groups By: Average Both

Combine Periods: Last

Default sliding Size: -1

Discount Timing: Beginning

Discount Use: No

Cash Flow Rate Use: Rebase Type: Current Retain Value: Yes False Override: Virtual: False

5.3.3.2.489 cal_year

Description: Calendar year

Help:

Modified On: 10/4/2021 3:33:57 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Timing Column Header: cal_year Combine Groups By: Average Both

Combine Periods: Last Default sliding Size: -1

Discount Timing: Beginning

Discount Use: No

Cash Flow Rate Use: Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.490 pol_month

Description: Month of the policy year

Help:

Modified On: 10/3/2021 1:47:05 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Timing Column Header: pol month Combine Groups By: Average Both

Combine Periods: Last Default sliding Size: -1

Discount Timing: Beginning Discount Use: No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.3.2.491 pol_year

Description: Policy year

Help:

Modified On: 10/3/2021 1:47:12 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Timing
Column Header: pol_year
Combine Groups By: Average Both

Combine Periods: Last Default sliding Size: -1

Discount Timing:

Discount Use:

No

Rate Use:

Rebase Type:
Current
Retain Value:
Yes
Override:
False
Virtual:
False

5.3.3.2.492 pol_year_ext

Description: Policy year + extra months

Help:

Modified On: 6/9/2022 10:47:30 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Timing
Column Header: pol_year_ext
Combine Groups By: Average Both

Combine Periods: Last Default sliding Size: -1

Discount Timing: Beginning

Discount Use: No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.493 proj_month

Description: Projection month

Help:

Modified On: 8/15/2021 9:07:35 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Timing
Column Header: proj_month
Combine Groups By: Average Both

Combine Periods: Last

Default sliding Size: -1

Discount Timing: Beginning

Discount Use: No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.494 proj_year

Description: Projection year

Help:

Modified On: 8/12/2021 5:12:37 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Timing
Column Header: proj_year
Combine Groups By: Average Both

Combine Periods: Last Default sliding Size: -1

Discount Timing: Beginning

Discount Use: No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.3.2.495 proj_year_rollup

Description: Projection year for rollup (0 throughout the

rollup period, starting at 1 thereafter)

Help: Calender year index used for referencing arrays

according to calender year (inv_rate,

expense_multipliers ...)

Modified On: 11/17/2022 4:45:08 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Timing

Column Header: proj_year_rollup
Combine Groups By: Average Both

Combine Periods: Last Default sliding Size: -1

Discount Timing: Beginning
Discount Use: No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False

Virtual: False

5.3.3.3 External Functions

5.3.3.3.1 call extra scalars

Description: Call Extra Scalars to be populated in output

Help:

Modified On: 12/14/2023 3:01:28 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

5.3.3.3.2 monthly rate

Description: Convert annual to monthly

Help: Given an annual interest rate, expressed as i%

this external formula returns i(12)/12%, i.e. the monthly rate which compounds to give the annual rate, eg monthly_rate(10)=0.007974

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Setup

5.3.3.3 set_accum_fund

Description: Set accumulation fund var for basic unit
Help: This external function sets the variables for

accumulation fund of basic part of units

Modified On: 6/2/2022 9:58:50 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Setup

5.3.3.3.4 set accum pup fund

Description: Set accum fund vars for PUP (basic unit)

Help: This external function sets the variables for accumulation fund for paid-up policies. (basic

units)

Modified On: 6/2/2022 9:59:22 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Setup

5.3.3.3.5 set_by_prodcode

Description: Set variables based on PRODCODE

Help: External function to reset certain variables, with

values from tables, before running projection. It is for variables that depend on the product (refered to by "prodcode"), such as product-

specifications.

These variables from the default or screen are over-written by values coming from tables, if the variable "lookup_by_product" is set to "Y".

This function is called from startup.

6/17/2025 10:39:55 AM (UTC+03:00)

CLAL-INS\arikt

Category: Setup

5.3.3.3.6 set from data

Modified On:

Modified By:

Modified On:

Modified On:

Description: Set assumptions from data file

Help: External function to reset certain assumptions,

with values from tables, before running

projection.

Assumptions from the default or screen are over-written by values coming from assumption tables, if the variable "read from tables" is set

to "Y".

This function is called from startup. 3/12/2025 1:40:08 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Setup

5.3.3.3.7 set_from_tables

Description: Setup variables [read] from tables

Help: External function to reset certain assumptions,

with values from tables, before running

projection.

Assumptions from the default or screen are over-written by values coming from assumption tables, if the variable "read from tables" is set

to "Y".

This function is called from startup. 4/25/2023 10:41:49 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Setup

5.3.3.3.8 set_other_variables

Description: Setup other variables

Help: External function to calculate and/or adjust

variables before running projection. This function is called from startup.

Modified On: 7/7/2024 6:07:08 PM (UTC+03:00) Modified By: CLAL-INS\arikt

Category: Setup

5.3.3.9 set_profil_rider_variables

Description: Setup variables for Profil riders

Help: External function to calculate and/or adjust

variables before running projection.
This function is called from startup.

Modified On: 12/24/2024 9:54:07 AM (UTC+02:00)

Modified By: CLAL-INS\arikt

Category: Setup

5.3.3.3.10 set reinsurance

Description: Set variables for reinsurance

Help: This function sets the variables used for

reinsurance.

This function is called by startup.

Modified On: 8/1/2024 11:20:33 AM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Setup

5.3.3.3.11 set_saving

Description: Set accumulation fund var (pur saving)

Help: This external function sets the variables for accumulation fund of pure saving units

Modified On: 12/27/2022 1:07:22 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Setup

5.3.3.3.12 set_saving_pup

Description: Set accum fund vars for PUP (p. saving)
Help: This external function sets the variables for

: This external function sets the variables for accumulation fund for paid-up policies. (pure

saving units)

Modified On: 6/2/2022 9:59:34 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Setup

5.3.3.3.13 validate data

Description: Validate projection parameters before

calculations

Help: This function carries out data validation checks

and halts program execution if errors are detected. Is only used if do data validation is set

to "Y".

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Setup

5.3.3.4 Temporary Tables

5.3.3.4.1 charge amount tt

Description: charges deducted for profil riders (income)

Help:

Modified On: 2/18/2024 9:24:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Number of Rows: 1200
Number of Columns: 25
Calculation Methods: Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.3.4.2 charge_rate tt

Description: annual charge rate for Profil riders

Help:

Modified On: 7/20/2021 4:14:46 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category:

Number of Rows:100Number of Columns:25Calculation Methods:Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.3.4.3 claim_amount_tt

Description: claims paid on profil riders

Help:

Modified On: 7/21/2021 1:04:23 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category:

Number of Rows:1200Number of Columns:25Calculation Methods:Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.3.4.4 claim cost tt

Description: claims cost factors for profil riders

Help:

Modified On: 7/21/2021 1:39:02 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category:

Number of Rows:100Number of Columns:25Calculation Methods:Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.3.4.5 claims_mult_tt

Description: claims multipliers for profil riders by policy year

Help:

Modified On: 7/27/2021 11:04:59 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category:

Number of Rows:100Number of Columns:25Calculation Methods:Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.3.4.6 decrement tt

Description: profil riders monthly decrement rates

Help:

Modified On: 7/26/2021 1:48:33 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category:

Number of Rows:1200Number of Columns:25Calculation Methods:Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.3.4.7 prem_rates_extra_tt

Description: Adif Premium rates for extra risk.

Help:

Modified On: 7/3/2022 7:42:02 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category:

Number of Rows: 120
Number of Columns: 4
Calculation Methods: Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.3.4.8 sum_ins_basic_tt

Description: Adif Basic Sum Insured amounts per 100

monthly premium

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Number of Rows: 120
Number of Columns: 4
Calculation Methods: Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.3.4.9 surr_charge_tt

Description: Surrender charge rates

Help:

Modified On: 4/11/2024 4:43:36 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt

Category:

Number of Rows:1000Number of Columns:2Calculation Methods:Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

Description: claims rate for profil riders

Help:

Modified On: 2/18/2024 9:24:59 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt
Category: Decrements|Death

Number of Rows: 100
Number of Columns: 25
Calculation Methods: Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.3.4.11 sum_insured_rider_tt

Description: Sum Insured for Profil riders

Help:

Modified On: 12/24/2024 9:53:22 AM (UTC+02:00)

Modified By: CLAL-INS\arikt

Category: Inforce Details|Sum Assured

Number of Rows: 1200
Number of Columns: 25
Calculation Methods: Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.3.5 Scalars

5.3.3.5.1 fund_type

Description: Fund Type

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Rebase: N/A
Type: Character
Override: False
Virtual: False

5.3.3.5.2 min retirement age

Description: Mininmum Retirement Age

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Rebase: N/A
Type: Integer
Override: False
Virtual: False

5.3.3.5.3 mult_age_ind

Description: Indicator to use multiple retirment ages

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Rebase: N/A
Type: Integer
Override: False
Virtual: False

5.3.3.5.4 use_uw_date

Description: Use UW Date

Help:

Modified On: 3/19/2024 6:59:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Rebase: N/A
Type: Character
Override: False
Virtual: False

5.3.3.5.5 profit_net_vif_pv12

Description: VIF PV after tax profit at t=12

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Balance Sheet|Reserves

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.6 res prop kitzba

Description: Proportion of Reserve for Kitzba (as opposed to

Hon)

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Annuity Deficiency

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.7 res_prop_kitzba_newtag

Description: Proportion of Kizba Reserve which is New

Tagmulim

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Annuity Deficiency

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.8 res prop kitzba oldtag

Description: Proportion of Kizba Reserve which is Old

Tagmulim

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Annuity Deficiency

Rebase: N/A
Type: Double

Override: False Virtual: False

5.3.3.5.9 res_prop_kitzba_piz

Description: Proportion of Kizba Reserve which is Pizzuim

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Annuity Deficiency

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.10 res prop kitzba prat

Description: Proportion of Kizba Reserve which is Prat

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Annuity Deficiency

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.11 res total increase1

Description: Total reserve increase of the first month

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Balance Sheet|Reserves|Annuity Deficiency

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.12 resanndef_atmat

Description: Annuity defeciency reserve at maturity

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Annuity Deficiency

Rebase: N/A

Type: Double Override: False Virtual: False

5.3.3.5.13 reserve_opening_difference

Description: Opening difference between the input and

calculated reserve. Used in the profit for month

1.

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Annuity Deficiency

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.14 premium disc pv start

Description: PV of premium discounts to policy start date

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Cashflows|Income|Premium

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.15 premium_nb_sp

Description: Extra Single Premium for NB to get opening

account balance

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Cashflows|Income|Premium

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.16 premium_pv_st_date

Description: PV of premiums to policy start date

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Cashflows|Income|Premium

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.17 claims re yr1

Description: claims reinsurance in first year of projection

Help:

Modified On: 1/10/2022 12:48:58 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Claims

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.18 claims total yr1

Description: claims total in first year of projection

Help:

Modified On: 1/10/2022 12:51:00 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Claims

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.19 comm_re_prof_yr1

Description: profit commission reinsurance in first year of

projection

Help:

Modified On: 1/10/2022 12:52:13 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Claims

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.20 comm_re_yr1

Description: commission reinsurance in first year of

projection

Help:

Modified On: 1/10/2022 12:50:32 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Claims

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.21 comm_total_yr1

Description: commission total in first year of projection

Help:

Modified On: 1/10/2022 12:50:52 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Claims

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.22 expense_total_yr1

Description: expense total in first year of projection

Help:

Modified On: 1/10/2022 12:45:48 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Claims

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.23 prem discount py1

Description: Premium discount for the first policy year

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Cashflows|Outgo|Claims

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.24 prem_discount_py2

Description: Premium discount for the second policy year

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Cashflows|Outgo|Claims

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.25 prem_discount_py3

Description: Premium discount for the third policy year

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Cashflows|Outgo|Claims

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.26 premium_gross_yr1

Description: premium gross total in first year of projection

Help:

Modified On: 1/10/2022 12:28:32 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Claims

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.27 premium re yr1

Description: premium reinsirance in first year of projection

Help:

Modified On: 1/10/2022 12:49:44 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Claims

Rebase: N/A
Type: Double
Override: False

Virtual: False

Description: Profit VIF in year 0 (current valuation year).

Used as VNB actual profit component

Help:

Modified On:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Cashflows|Outgo|Claims

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.29 comm nihul pv start

Description: PV of Nihul Commissions at policy start

Help: No of new policies starting in the valuation year

(12 months prior to the valuation date) 8/30/2021 8:42:46 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Commission

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.30 comm prizes new

Description: Lump sum commissions of new policies starting

in the valuation year

Help: No of new policies starting in the valuation year

(12 months prior to the valuation date)

Modified On: 11/17/2022 5:29:40 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Commission

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.31 comm_pv_start

Description: PV of Commissions at policy start

Help: No of new policies starting in the valuation year

(12 months prior to the valuation date)

Modified On: 8/30/2021 8:42:43 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Cashflows|Outgo|Commission

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.32 exp_inflation_mthly

Description: Monthly expense inflation rate

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Cashflows|Outgo|Expenses

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.33 units_to_ann

Description: Unit value passed to annuity

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Charges
Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.34 claims pv st

Description: Claims PV St

Help:

Modified On: 11/30/2023 4:40:39 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Claims
Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.35 comm_clawback_pv_start

Description: Comm Clawback Pv Start

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Clawback
Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.36 charges_premium_pv_st

Description: מכירה לעת מהוון חיסכון בגין מפרמיה ניהול דמי

Help:

Modified On: 7/25/2022 9:53:13 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa Category: Commission

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.37 comm_hekef_new

Description: Comm Hekef New

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Commission

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.38 comm_init_new

Description: Comm Init New

Help:

Modified On: 11/17/2022 5:29:40 PM (UTC+02:00)

Modified By: CLAL-INS\joshm Category: Commission

Rebase: N/A
Type: Double
Override: False
Virtual: False

Description: Comm Reg Pv St

Help:

Modified On: 7/25/2022 9:40:32 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa Category: Commission

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.40 comm_reg_riders_out_pv_st

Description: מכירה לעת מהוון ריידר שוטפות עמלות

Help:

Modified On: 7/25/2022 9:52:20 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa Category: Commission

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.41 comm ren pv st

Description: Comm Ren Pv St

Help:

Modified On: 11/16/2021 10:55:54 AM (UTC+02:00)

Modified By: CLAL-INS\joshm Category: Commission

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.42 comm_res_pv_st

Description: Comm Res Pv St

Help:

Modified On: 11/16/2021 10:55:42 AM (UTC+02:00)

Modified By: CLAL-INS\joshm Category: Commission

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.43 management_fee_pv_st

Description: מכירה לעת מהוון מצבירה ניהול דמי סך

Help:

Modified On: 7/25/2022 10:02:09 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa Category: Commission

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.44 proj_task_loop_num_scalar

Description: loop number - for ESG runs

Help:

Modified On: 1/11/2023 1:26:57 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa Category: Commission

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.45 duration

Description: Duration (macham) in months

Help:

Modified On: 12/8/2020 3:28:58 PM (UTC+02:00)

Modified By: CLAL-INS\NinaB Category: Decrements

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.46 expense_init_new

Description: Expense Init New

Help:

Modified On: 11/17/2022 5:32:36 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Expenses
Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.47 expense_pv_start

Description: Expense Pv Start

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Expenses
Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.48 policies new

Description: No of new policies starting in the valuation year

Help: No of new policies starting in the valuation year

(12 months prior to the valuation date)

Modified On: 1/8/2023 5:10:28 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Inforce Details|Number of Covers

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.49 **premium_new**

Description: Premium of new policies starting in the

valuation year

Help: No of new policies starting in the valuation year

(12 months prior to the valuation date)

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Inforce Details|Number of Covers

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.50 origidate

Description: Origidate Scalar

Help: month and year of origi date
Modified On: 1/6/2022 5:38:34 PM (UTC+02:00)

Modified By: CLAL-INS\joshm Category: Policy Details

Rebase: N/A
Type: Double

Override: False Virtual: False

5.3.3.5.51 yob

Description: year of birthday

Help: month and year of origi date

Modified On: 5/17/2023 3:58:18 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa Category: Policy Details

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.52 prem_alloc_pv

Description: PV of Premium for Savings

Help: Proportion of Premium for Savings (as opposed

to risk and expense chanrges)

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Policy Details|Premium

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.53 premium_1

Description: Premium of the month1 include policy fee

Help: Proportion of Premium for Savings (as opposed

to risk and expense chanrges)

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Policy Details|Premium

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.54 reins_simple_rider_row

Description: Lookup scalar

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium
Rebase: N/A
Type: Character
Override: False
Virtual: False

5.3.3.5.55 reins simple row

Description: Lookup scalar

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Premium
Rebase: N/A
Type: Character
Override: False
Virtual: False

5.3.3.5.56 ktest

Description: Identifies the ktest population Help: same as group in input

Modified On: 1/10/2022 2:01:49 PM (UTC+02:00)

Modified By: CLAL-INS\joshm Category: Product Details

Rebase: N/A
Type: Character
Override: False
Virtual: False

5.3.3.5.57 portfolio

Description: Portfolio

Help: same as group in input

Modified On: 11/29/2021 1:08:17 PM (UTC+02:00)

Modified By: CLAL-INS\joshm Category: Product Details

Rebase: N/A
Type: Character
Override: False
Virtual: False

5.3.3.5.58 prod_specs_max_perc

Description: Lookup scalar

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Product Details

Rebase: N/A
Type: Character
Override: False
Virtual: False

5.3.3.5.59 cashflow_re_pv_st

Description: Cashflow Re Pv St

Help:

Modified On: 11/30/2023 4:44:22 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt Category: Reinsurance

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.60 reins_comm1

Description: Reinsure commission of the first month

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Reinsurance

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.61 reinsur clm cost

Description: Row lookup value scalar

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Reinsurance

Rebase: N/A
Type: Character
Override: False
Virtual: False

5.3.3.5.62 reinsur_kodtavla

Description: Column Lookup value scalar

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab Category: Reinsurance

Rebase: N/A
Type: Character
Override: False
Virtual: False

5.3.3.5.63 reserve rein opening

Description: Reserve Rein Opening

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt Category: Reinsurance

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.64 reserve_manual

Description: Reserve Manual

Help:

Modified On: 8/14/2024 10:39:35 AM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Reserve
Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.3.5.65 datetime stamp

Description: Date and time of run

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Setup
Rebase: N/A
Type: Character
Override: False
Virtual: False

5.3.3.5.66 sex_smoker_code

Description: Code for sex and smoker status of insured 1.

Help: Codes returned are:

M NS = 0 M Sm = 1 F NS = 2 F Sm = 3

Modified On: 4/21/2021 4:54:38 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Setup
Rebase: N/A
Type: Integer
Override: False
Virtual: False

5.3.3.5.67 **stamp_output**

Description: Output file string

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Setup
Rebase: N/A
Type: Character
Override: False
Virtual: False

5.3.3.5.68 value_date

Description: Valuation date

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Setup
Rebase: N/A
Type: Character
Override: False
Virtual: False

5.3.4 **sub_2_cflow**

Description:

Help:

Base Model Class: none Model References All

Read File: Before Start Up

Modified On: 9/25/2024 2:30:23 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

5.3.4.1 Variables

5.3.4.1.1 prop_gteedint_post_maturity

Description: Prop of partcipating policies getting Guar int

rate post maturity

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 1

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.4.1.2 sv_tbl_check

Description: Sv Tbl Check

Help:

Modified On: 10/17/2021 4:46:35 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.4.2 Columns

5.3.4.2.1 annuity_if_b_bef_ret

Description: Annuity If B Bef Ret

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: annuity if b bef ret

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

Last

Flow

Cash Flow

Rate Use: Cash Flo
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.2 bonus

Description: Israeli Bonus/Malus declared

Help: new bonus declared in month t to be added to

accumulated bonus.

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

End

Yes

Cash Flow

Rate Use: Cash Florable Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.4.2.3 bonus b

Description: Bonus of previous period after survival (but

before new bonus) (active)

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Override: Virtual:

Column Header: bonus b Combine Groups By: Sum Both Combine Periods: Last Default sliding Size: -1 End **Discount Timing:** Discount Use: Yes Cash Flow Rate Use: Rebase Type: **Previous** Retain Value: Yes

5.3.4.2.4 bonus b pup

Description: Bonus of previous period after survival (but

False

False

before new bonus) (pup)

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: bonus_b_pup
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes
Rate Use: Cash Flow

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flo
Previous
Previous
False

5.3.4.2.5 bonus_if

Description: Bonus/Malus In Force

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: bonus_if
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow

Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.6 bonus_if_pup

Description: Bonus/Malus of PUP In Force

Help: accumulated bonus.

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: bonus_if_pup
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.7 bonus pup

Description: Israeli Bonus/Malus declared for paid up
Help: new bonus declared in month t to be added to

accumulated bonus.

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: bonus_pup
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes
Rate Use: Cash Flow

Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.8 bonus rate

Description: Bonus Rate (active)

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

bonus_rate Column Header: Combine Groups By: Sum Both Last Combine Periods: Default sliding Size: -1 **Discount Timing:** End Discount Use: Yes Rate Use: Cash Flow Previous Rebase Type: Yes Retain Value:

Override: False Virtual: False

5.3.4.2.9 bonus rate mat

Description: Bonus Rate after maturity

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: bonus_rate_mat
Combine Groups By: Sum Both

Combine Groups By.

Combine Periods:

Default sliding Size:

Discount Timing:

End

Discount Use:

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.10 bonus_rate_mthly

Description: Monthly bonus rate

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: bonus_rate_mthly

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

Rate Use: Cash Flow

Rebase Type:

Retain Value:

Override:

Virtual:

None

Yes

False

5.3.4.2.11 bonus_rate_pup

Description: Bonus Rate (pup)

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: bonus_rate_pup
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.12 bor acc

Description: Accumulated management fees owing (bor)

(active)

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: bor_acc
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes
Rate Use: Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.13 bor_acc_mat

Description: Bor after Maturity age

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: bor_acc_mat
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.4.2.14 bor_acc_pup

Description: Accumulated management fees owing (bor)

(pup)

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: bor_acc_pup
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.15 bor_return

Description: Owned management fees repaid

Help:

Modified On: 9/25/2024 2:29:54 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category:

Column Header: bor_return
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.16 bor return mat

Description: Bor Returned after maturity

Help:

Modified On: 9/25/2024 2:40:10 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category:

Column Header: bor_return_mat
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes
Rate Use: Cash Flow

Rate Use: Cash Flo
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.17 bor return pup

Description: Owned management fees repaid (pup)

Help:

Modified On: 9/25/2024 2:33:05 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category:

Column Header: bor_return_pup
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes
Rate Use: Cash Flow
Rebase Type: Previous

Rebase Type: Previo

5.3.4.2.18 claims death

Description: Total Death Claims in Period

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: claims_death Combine Groups By: Sum Both Combine Periods: Last Default sliding Size: -1 End **Discount Timing:** Discount Use: Yes Cash Flow Rate Use: **Previous** Rebase Type: Retain Value: Yes Override: False Virtual: False

5.3.4.2.19 claims maturity

Description: Total Maturity Claims in Period

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Colaims_maturity

Sum Both

Last

-1

End

Yes

Cash Flow

Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.20 claims surrender

Description: Total Surrender Claims in Period

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: claims_surrender

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow Current Rebase Type: Retain Value: Yes Override: False Virtual: False

5.3.4.2.21 death claims bon

Description: Death claims on Bonus/Malus

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: death_claims_bon

Combine Groups By: Sum Both Combine Periods: Last Default sliding Size: -1 End **Discount Timing:** Discount Use: Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.4.2.22 death claims si

Description: Death claims on sum insured

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: death_claims_si Sum Both Combine Groups By: Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End

Discount Use: Rate Use: Cash Flow Previous Rebase Type: Retain Value: Yes Override: False False Virtual:

5.3.4.2.23 har acc

Description: Accumulated management fees available for

Yes

return (har) (active)

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: har_acc Combine Groups By: Sum Both Combine Periods: Last Default sliding Size: -1 End **Discount Timing:** Discount Use: Yes Cash Flow Rate Use: **Previous** Rebase Type: Retain Value: Yes False Override:

5.3.4.2.24 har_acc_mat

Description: Har after Maturity age

Help:

Virtual:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

False

Modified By: CLAL-INS\Arikt

Category:

Column Header: har_acc_mat
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes
Rate Use: Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.25 har_acc_pup

Description: Accumulated management fees available for

return (har) (pup)

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: har_acc_pup
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1

Discount Timing: End

Discount Use: Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.4.2.26 har_return

Description: Variable management fees returned (active)

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Coach Flow:

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.27 har_return_mat

Description: Har Returned after maturity

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: har_return_mat
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.28 har_return_pup

Description: Variable management fees returned (pup)

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

har_return_pup

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.4.2.29 int_cred

Description: Interest credited for bonus

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: int cred Sum Both Combine Groups By: Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Yes Discount Use: Cash Flow Rate Use: Previous Rebase Type: Retain Value: Yes Override: False Virtual: False

5.3.4.2.30 int_cred_mat

Description: Int Cred after maturity

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: int_cred_mat
Combine Groups By: Sum Both
Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

-1

End

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.4.2.31 int_cred_pup

Description: Interest credited for bonus (pup)

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: int_cred_pup
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes
Rate Use: Cash Flow
Rebase Type: Previous

Rebase Type: Previor Retain Value: Yes Override: False Virtual: False

Description: interest rate accumulating after original maturity

False

age up to age 80

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Virtual:

Column Header: int post mat Sum Both Combine Groups By: Combine Periods: Last -1 Default sliding Size: **Discount Timing:** End Discount Use: Yes Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False

5.3.4.2.33 int_res_deduct

Description: Reserving interest deducted from bonus

(active)

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: int_res_deduct
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.4.2.34 int_res_deduct_pup

Description: Reserving interest deducted from bonus (pup)

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: int res deduct pup

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.4.2.35 maturities_bon

Description: Maturity payments on Bonus/Malus

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: maturities_bon
Combine Groups By: Sum Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

Pind

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.4.2.36 maturities si

Description: Maturity payments on sum insured

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: maturities_si
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.37 mgt fee fix

Description: Fixed management fees (active)

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: mgt_fee_fix
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.38 mgt_fee_fix_mat

Description: Fixed management fees after maturity

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: mgt_fee_fix_mat Sum Both Combine Groups By: Last Combine Periods: -1 Default sliding Size: **Discount Timing:** End

Discount Use: Yes Cash Flow Rate Use: Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.4.2.39 mgt_fee_fix_pup

Description: Fixed management fees (pup)

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Sum Both

Modified By: CLAL-INS\Arikt

Category:

Column Header: mgt fee fix pup

Combine Groups By: Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Yes Discount Use: Cash Flow Rate Use: Previous Rebase Type: Retain Value: Yes

Override: False Virtual: False

5.3.4.2.40 mgt_fee_var

Description: Variable management fees (active)

Help:

Modified On: 9/25/2024 2:30:09 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category:

Column Header: mgt fee var Combine Groups By: Sum Both Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

-1

End

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

False

False

5.3.4.2.41 mgt_fee_var_mat

Description: Variable management fees after maturity

Help:

Modified On: 9/25/2024 2:39:17 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category:

Column Header: mgt_fee_var_mat

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

Place Sum Both

Last

Place Sum Both

Last

-1

Place Sum Both

Last

Place Sum Both

Place

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.4.2.42 mgt_fee_var_no_bor

Description: Variable management fees (active) when no

bor for same calc in bor return and

management_fees_variable

Help:

Modified On: 9/25/2024 2:30:19 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category:

Column Header: mgt_fee_var_no_bor

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

Piscount Finance

Piscount Use:

Sum Both

Last

-1

Piscount Use:

Piscount Use:

Sum Both

Last

-1

Piscount Use:

Piscount Use:

Sum Both

Last

-1

Piscount Use:

Piscount Use:

Sum Both

Last

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.43 mgt_fee_var_no_bor_mat

Description: Variable management fees (active) when no

bor for same calc in bor_return and

management fees variable

Help:

Modified On: 9/25/2024 2:34:25 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category:

Column Header: mgt_fee_var_no_bor_mat

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

End

Yes

Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.44 mgt_fee_var_no_bor_pup

Description: Variable management fees (active) when no

bor for same calc in bor_return and

management_fees_variable

Help:

Modified On: 9/25/2024 2:31:02 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category:

Column Header: mgt_fee_var_no_bor_pup

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

End

Yes

Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.45 mgt_fee_var_pup

Description: Variable management fees (pup)

Help:

Modified On: 9/25/2024 2:32:42 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category:

Column Header: mgt_fee_var_pup

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

End

Yes

Cash Flow

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flo
Previous

Previous

False

5.3.4.2.46 net interest rate

Description: Interest rate net of fixed management fees

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: net_interest_rate

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

End

Yes

Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.47 puv factor

Description: PaidUp value factor

Help: Surrender value at EOM for policies IF at EOM

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: puv_factor
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow Rebase Type: Previous

Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.48 res_to_bonus

Description: Reserve on which bonus is earned

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: res_to_bonus Sum Both Combine Groups By: Combine Periods: Last Default sliding Size: -1 **Discount Timing:** End Discount Use: Yes Cash Flow Rate Use: **Previous** Rebase Type: Retain Value: Yes

Description: Reserve on which bonus is earned

Help:

Override:

Virtual:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

False

False

Modified By: CLAL-INS\Arikt

Category:

Column Header: res_to_bonus_pup

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.50 surr_value

Description: Surrender value inforce EOM

Help: Surrender value at EOM for policies IF at EOM

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: surr_value
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.4.2.51 surr_value_pup

Description: Surrender value of PUP inforce EOM

Help: Surrender value at EOM for policies IF at EOM

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: surr_value_pup
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.52 sv factor

Description: Surrender factor

Help: Surrender value at EOM for policies IF at EOM

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Column Header: sv_factor
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow Rebase Type: Previous

Retain Value: Yes Override: False False Virtual:

5.3.4.2.53 zillmer_book

Description: Zillmer for reported surplus

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

No

Modified By: CLAL-INS\Arikt Category: Balance Sheet|Dac Column Header: zillmer_book Sum Both Combine Groups By: Combine Periods: Last Default sliding Size: 0 **Discount Timing:** End

Discount Use: Cash Flow Rate Use: Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.4.2.54 zillmer_tax

Description: Zillmer for tax purposes

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt Category: Balance Sheet|Dac

Column Header: zillmer_tax Combine Groups By: Sum Both Combine Periods: Last 0 Default sliding Size: **Discount Timing:** End Discount Use: No

Rate Use: Cash Flow Current Rebase Type: Retain Value: Yes Override: False False Virtual:

5.3.4.2.55 ann_takeup_rate

Description: annuitization rate

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00) Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves

Column Header: ann_takeup_rate

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.4.2.56 reserve

Description: Reserve total (excluding ERR)

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves

Column Header: reserve
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.57 reserve extra

Description: extra reserve items

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves

Column Header: reserve_extra
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow Rebase Type: Previous

Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.58 ann_factor_weighted

Description: Ann Factor Weighted

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: ann_factor_weighted

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

End

Yes

Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.59 ann_factor_weighted_int0

Description: Ann Factor Weighted with 0 interest

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: ann_factor_weighted_int0

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.60 annuity_factor

Description: Annuity factor - ax

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: annuity_factor
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

No

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow
Previous
Yes
False
False

5.3.4.2.61 annuity factor int0

Description: Annuity factor - ax with 0 interest

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: annuity_factor_int0
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

No

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.62 ass factor weighted

Description: Ass Factor Weighted

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: ass_factor_weighted

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow Rebase Type: Previous

Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.63 ass_factor_weighted_int0

Description: Ass Factor Weighted with 0 interest rate

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: ass_factor_weighted_int0

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

Part of the periods:

Last

Properties of the periods:

Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.64 assurance_factor

Description: Assurance factor - Ax

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: assurance_factor Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

No

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.65 assurance_factor_int0

Description: Assurance factor - Ax with interest rate = 0

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: assurance_factor_int0

Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

End

Discount Use:

No

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow
Previous
Yes
False
False

5.3.4.2.66 net premium b

Description: Net premiums at beginning of month

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: net_premium_b
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1

Discount Timing: Beginning

Discount Use: No

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.67 net premium e

Description: Net premiums in force

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: net_premium_e
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1

Discount Timing: End
Discount Use: No

Rate Use: Cash Flow Rebase Type: Previous

Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.68 res_basic_act_newtag

Description: Res Basic Act Newtag

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: res_basic_act_newtag

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

End

Yes

Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.69 res_basic_act_old

Description: Res Basic Act Old

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: res_basic_act_old

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.70 res_basic_act_piz

Description: Res Basic Act Piz

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: res_basic_act_piz

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

Plant

Last

Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.71 res basic act piz int

Description: Res Basic Act Piz with interest added

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: res_basic_act_piz_int

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

Last

Flow

Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.72 res_basic_act_prat

Description: Res Basic Act Prat

Help:

Discount Use:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Yes

Column Header: res_basic_act_prat

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Sum Both

Last

-1

End

Rate Use: Cash Flow Rebase Type: Previous

Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.73 res_basic_pup_newtag

Description: Res Basic PUP Newtag

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: res_basic_pup_newtag

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Cash Flow
Rebase Type:

Sum Both

Last

-1

End

Yes

Cash Flow

Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.74 res_basic_pup_old

Description: Res Basic PUP Old

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: res_basic_pup_old

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.75 res_basic_pup_piz

Description: Res Basic PUP Piz

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: res_basic_pup_piz

Sum Both Combine Groups By: Combine Periods: Last Default sliding Size: -1 End **Discount Timing:** Discount Use: Yes Cash Flow Rate Use: Rebase Type: Previous Yes Retain Value: Override: False

5.3.4.2.76 res basic pup piz int

Description: Res Basic PUP Piz with interest

Help:

Virtual:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

False

Column Header: res_basic_pup_piz_int

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Cash Flow
Rebase Type:

Sum Both

Last

Last

Pfevious

Retain Value:

Override:

Virtual:

Yes

Frevior

5.3.4.2.77 res basic pup prat

Description: Res Basic PUP Prat

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: res_basic_pup_prat

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow Rebase Type: Previous

Retain Value: Yes
Override: False
Virtual: False

Description: Basic reserve - Net or Gross Premium

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: reserve_basic
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.4.2.79 reserve basic prem if

Description: Basic reserve of premium inforce- Net or Gross

Premium

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: reserve_basic_prem_if

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.80 reserve_basic_pup

Description: Basic reserve of PUP- Net or Gross Premium

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: reserve_basic_pup

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow
Previous
Yes
False
False

5.3.4.2.81 reserve risk premium

Description: Risk premium for Basic reserve

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: reserve_risk_premium

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.82 vnp

Description: Value of net premium - VNP

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: vnp
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow Rebase Type: Previous

Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.83 vsa

Description: Value of sum assured - VSA

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: vsa
Combine Groups By: Sum Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.4.2.84 death_rate

Description: Independent death rate in period

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt
Category: Decrements|Death

Column Header: death_rate
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

Middle

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.85 pol_fee

Description: Policy Fee

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Income Statement|Income|Premium

Column Header: pol_fee
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1

Discount Timing: Beginning
Discount Use: Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow
Previous
Yes
Yes
False

5.3.4.2.86 premium

Description: Premium (including policy fee)

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Income Statement|Income|Premium

Column Header: premium
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1

Discount Timing:

Discount Use:

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Beginning

Yes

Cash Flow

Previous

Yes

False

False

5.3.4.2.87 premium gross

Description: Gross premium income during period

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Income Statement|Income|Premium

Column Header: premium_gross
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1

Discount Timing: Beginning
Discount Use: Yes

Rate Use: Cash Flow Rebase Type: Previous

Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.88 claims_rate_per

Description: Claims Rate Per

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Income Statement|Outgo|Claims

Column Header: claims_rate_per
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: Yes
Rate Use: Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.89 premium_if_b

Description: Premium in force at start of period

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Inforce Details|Premium

Column Header: premium_if_b
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1

Discount Timing:

Discount Use:

No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.4.2.90 premium_if_e

Description: Premium in force at end of period

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Inforce Details|Premium

Column Header: premium_if_e
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.4.2.91 annuity if b

Description: Monthly annuity in force for GIMLA (start of

month)

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Inforce Details|Sum Assured

Column Header: annuity_if_b
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1

Discount Timing: Beginning

Discount Use: No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.92 claims ret

Description: Claims Ret

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Inforce Details|Sum Assured

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Claims_ret

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.93 sum_at_risk_if

Description: Sum at risk in force

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Inforce Details|Sum Assured

Column Header: sum_at_rsk_if
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.94 sum insured

Description: Sum insured - undecremented

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Inforce Details|Sum Assured

Column Header: sum_insured
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.4.2.95 sum insured if b

Description: Sum insured in force (start of month)

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Inforce Details|Sum Assured

Column Header: sum_insured_if_b

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Last

-1

Discount Timing: Beginning

Discount Use: No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.96 sum_insured_if_b_pup

Description: SI IF (start of mth) - paid up

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Inforce Details|Sum Assured Column Header: sum_insured_if_b_pup

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Last

-1

Discount Timing: Beginning

Discount Use: No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.97 sum insured if e

Description: Sum insured in force (end of month)

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Inforce Details|Sum Assured

Column Header: sum_insured_if_e

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

Rate Use: Cash Flow

Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.98 claims_re

Description: Reins Claim outgo in the mid of the per.

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt Category: Reinsurance Column Header: claims re Sum Both Combine Groups By: Combine Periods: Last 0 Default sliding Size: **Discount Timing:** End Discount Use: Yes Cash Flow Rate Use: Rebase Type: Current Retain Value: Yes Override: False False Virtual:

5.3.4.2.99 comm re

Description: Initial and renewal reins commission

Help:

Modified On: 1/5/2025 3:19:12 PM (UTC+02:00)

Modified By:
Category:
Reinsurance
Column Header:
Combine Groups By:
Combine Periods:
Default sliding Size:

CLAL-INS\arikt
Reinsurance
comm_re
Sum Both
Last
0

Discount Timing:

Discount Use:

Rate Use:

Rebase Type:

Retain Value:

Override:

Ves

Ves

False

Virtual:

Paginning

Yes

Cash Flow

Current

Yes

False

5.3.4.2.100 comm re prof

Description: Reinsurance profit commission

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By:

Category:

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

CLAL-INS\Arikt

Reinsurance

comm_re_prof

Sum Both

Last

0

Discount Timing:

Discount Use:

Rate Use:

Rebase Type:

Retain Value:

Override:

Ves

Ves

Current

Yes

Virtual:

False

5.3.4.2.101 exp_re_nom

Description: reinsurance nominal expenses

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By:

Category:

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

CLAL-INS\Arikt

Reinsurance

exp_re_nom

Sum Both

Last

0

Discount Timing:

Discount Use:

Beginning

Yes

Rate Use:

Rebase Type:
Current
Retain Value:
Yes
Override:
False
Virtual:
False

5.3.4.2.102 premium_if_b_re

Description: Reins premium in force at start of perio

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt
Category: Reinsurance
Column Header: premium_if_b_re

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Last

0

Discount Timing: Beginning
Discount Use: No

Rate Use: Cash Flow

Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.103 premium_re

Description: Reins Premium income at begin. of period

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By:

Category:

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

CLAL-INS\Arikt

Reinsurance

premium_re

Sum Both

Last

0

Discount Timing:

Discount Use:

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Beginning

Yes

Cash Flow

Current

Yes

False

5.3.4.2.104 profit re

Description: reinsurance profit for the period

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By:

Category:

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

CLAL-INS\Arikt

Reinsurance

profit_re

Sum Both

Last

0

End

Discount Use: Yes
Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.4.2.105 sum insured re

Description: Sum reinsured - undecremented

Help:

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt Category: Reinsurance Column Header: sum_insured_re Combine Groups By: Sum Both Combine Periods: Last Default sliding Size: 0 **Discount Timing:** End Discount Use: No

Rate Use: Cash Flow Rebase Type: Current Yes Retain Value: Override: False Virtual: False

5.3.4.2.106 startup

Description: Startup

Help: This column is always called first when running

a projection.

Modified On: 12/11/2023 2:43:58 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Setup Column Header: startup Combine Groups By: Average Both

Combine Periods: Last -1 Default sliding Size: **Discount Timing:** End Discount Use: No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.4.2.107 pol_sub_year

Description: Policy sub year/term

Help:

12/11/2023 2:43:58 PM (UTC+02:00) Modified On:

Modified By: CLAL-INS\Arikt

Timing Category: Column Header: pol_sub_year Combine Groups By: Average Both

Combine Periods: Last Default sliding Size: 0

Discount Timing: Beginning No

Discount Use:

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.4.3 External Functions

5.3.4.3.1 monthly_rate

Description: Convert annual to monthly

Help: Given an annual interest rate, expressed as i%

this external formula returns i(12)/12%, i.e. the monthly rate which compounds to give the annual rate, eg monthly_rate(10)=0.007974

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Setup

5.3.4.3.2 set other variables

Description: Setup other variables

Help: External function to calculate and/or adjust

variables before running projection.
This function is called from startup.
1/11/2023 11:33:41 AM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Setup

5.3.4.3.3 set_premium_si

Modified On:

Description: Modify (and calculate) premium and SA

Help: This function calculates the current premium or

the current sum insured. This function is called

by startup.

Modified On: 6/2/2022 1:40:52 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Setup

5.3.4.3.4 validate data

Description: Validate Data

Help: This function carries out data validation checks

on the input data and skips the model point if errors are detected, via the throw command.

Modified On: 8/25/2022 2:12:48 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Setup

5.3.4.4 Temporary Tables

5.3.4.4.1 res cx

Description: Reserve Commutation Cx

Help:

Modified On: 7/4/2022 2:26:45 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Balance Sheet|Reserves|Basic Reserve

Number of Rows: 121
Number of Columns: 2
Calculation Methods: Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.4.4.2 res_dx

Description: Reserve Commutation Dx

Help:

Modified On: 7/4/2022 2:30:47 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Balance Sheet|Reserves|Basic Reserve

Number of Rows: 121
Number of Columns: 2
Calculation Methods: Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.4.4.3 res_lx

Description: Reserve Commutation Ix

Help:

Modified On: 3/13/2023 4:02:12 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Balance Sheet|Reserves|Basic Reserve

Number of Rows:121Number of Columns:1Calculation Methods:Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.4.4.4 res_mx

Description: Reserve Commutation Mx

Help:

Modified On: 7/4/2022 2:21:30 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Balance Sheet|Reserves|Basic Reserve

Number of Rows: 121
Number of Columns: 2
Calculation Methods: Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.4.4.5 res nx

Description: Reserve Commutation Nx

Help:

Modified On: 7/4/2022 2:35:05 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Balance Sheet|Reserves|Basic Reserve

Number of Rows: 121
Number of Columns: 2
Calculation Methods: Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.4.4.6 res vx

Description: Reserve Interest vx

Help:

Modified On: 10/21/2020 3:44:35 PM (UTC+03:00)

Modified By: CLAL-INS\NinaB

Category: Balance Sheet|Reserves|Basic Reserve

Number of Rows:131Number of Columns:2Calculation Methods:Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.4.5 Scalars

5.3.4.5.1 interest_rein_mthly

Description: Monthly interest rate on reinsurance reserves

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.4.5.2 int_rate_res_hy

Description: 1+ Half-yearly interest rate for reserves

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Balance Sheet|Reserves

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.4.5.3 int_rate_res_mthly

Description: Monthly interest rate for reserves

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Balance Sheet|Reserves

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.4.5.4 res_prop_mat_newtag

Description: Res Prop Mat Newtag

Help:

Modified On: 8/22/2021 3:26:44 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Balance Sheet|Reserves|Basic Reserve

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.4.5.5 res prop mat oldtag

Description: Res Prop Mat Oldtag

Help:

Modified On: 8/22/2021 3:26:24 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Balance Sheet|Reserves|Basic Reserve

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.4.5.6 res_prop_mat_piz

Description: Res Prop Mat Piz

Help:

Modified On: 8/22/2021 3:26:47 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Balance Sheet|Reserves|Basic Reserve

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.4.5.7 res_prop_mat_prat

Description: Res Prop Mat Prat

Help:

Modified On: 8/22/2021 3:26:50 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Balance Sheet|Reserves|Basic Reserve

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.4.5.8 ann_factor_pol

Description: Policy Annuity factor at retirement.

Help:

Modified On: 8/1/2022 12:44:55 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Inforce Details|Sum Assured

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.4.5.9 sum insured newmoney

Description: Sum Insured Newmoney

Help:

Modified On: 6/10/2021 12:57:28 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Inforce Details|Sum Assured

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.4.5.10 sum_insured_newtag

Description: Sum Insured Newtag

Help:

Modified On: 6/10/2021 12:57:28 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Inforce Details|Sum Assured

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.4.5.11 sum_insured_oldtag

Description: Sum Insured Oldtag

Help:

Modified On: 6/10/2021 12:57:28 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Inforce Details|Sum Assured

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.4.5.12 sum_insured_piz

Description: Sum Insured Piz

Help:

Modified On: 6/10/2021 12:57:29 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Inforce Details|Sum Assured

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.4.5.13 sum insured piz int0

Description: Sum Insured Piz with 0 interest

Help:

Modified On: 6/10/2021 12:57:29 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Inforce Details|Sum Assured

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.4.5.14 sum_insured_prat

Description: Sum Insured Prat

Help:

Modified On: 6/10/2021 12:57:29 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Inforce Details|Sum Assured

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.5 sub_array

Description: Help:

Base Model Class: none Model References All

Read File: Before Start Up

Modified On: 8/19/2021 8:25:08 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

5.3.5.1 Variables

5.3.5.1.1 aml_ni_1_6

Description: Aml Ni 1 6

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.5.1.2 amla 1 6

Description: Amla 1 6

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.5.1.3 amla_7

Description: Amla 7

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: Al

Variable Sharing: Not Shared

Category Order: 0

5.3.5.1.4 amla_ni_7

Description: Amla Ni 7

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.5.1.5 dynamic

Description: Dynamic

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.5.1.6 lod_amt_1

Description: Lod Amt 1

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.5.1.7 lod_pe_r_1

Description: Lod Pe R 1

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.5.1.8 pol_number_i

Description: Pol Number I

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Character

Default Value: 0
Length: 15
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.5.1.9 pr_cov_cal

Description: Pr Cov Cal

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.5.1.10 prem_cover

Description: Prem Cover

Help:

Modified On: 8/19/2021 8:25:39 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 36
Number of Decimals: 2
Choice List: 0

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.5.1.11 prem_cover_input

Description: Prem Cover

Help:

Modified On: 8/19/2021 8:25:52 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category:

Variable Type: Character

Default Value: 0
Length: 50
Number of Decimals: 2
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.5.1.12 prm in ppn

Description: Prm In Ppn Help: is set to 0 or 1

> 0 = rider premium is out 1 = rider premium is in

1 = rider premium is in

Modified On: 8/8/2021 9:22:27 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

0 Valid Range From: 10 Valid Range To:

Default Row Numbers Table Format:

Set Value in Input Manager:

Not Shared Variable Sharing:

Category Order:

5.3.5.1.13 retention

Description: Retention

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Floating Point Number

Default Value: Length: 0 Number of Decimals: 3

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Default Row Numbers Table Format:

Set Value in Input Manager: ΑII

Variable Sharing: Not Shared

Category Order:

5.3.5.1.14 rid_sex

Description: Rid Sex

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Integer Number

Default Value: 0 Length: 0 Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Default Row Numbers Table Format:

Set Value in Input Manager:

Not Shared Variable Sharing:

Category Order: 0

5.3.5.1.15 risk_type

Description: Risk Type

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.5.1.16 sum as

Description: Sum As

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.5.1.17 tarif

Description: Tarif

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Variable Type: Integer Number

Default Value: 0
Length: 0
Number of Decimals: 0

Choice List:

Character Type: Not Applicable

Valid Range From:

Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.5.2 Columns

5.3.5.2.1 initial_formula

Description: Default Formula

Help:

Modified On: 8/19/2021 9:56:52 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category:

Column Header: init_fml
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: 0

Discount Timing:

Discount Use:

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Beginning

Yes

Cash Flow

Current

Yes

False

5.3.5.3 External Functions

<No External Functions Exist>

5.3.5.4 Temporary Tables

<No Temporary Tables Exist>

5.3.5.5 Scalars

<No Scalars Exist>

5.3.6 **sub1_cflow**

Description: Help:

Base Model Class: none
Model References All

Read File: Before Start Up

Modified On: 5/29/2025 11:23:49 AM (UTC+03:00)

Modified By: CLAL-INS\arikt

5.3.6.1 Variables

5.3.6.1.1 prem_disc_scenario

Description: Prem Disc for Scenario

Help:

Modified On: 11/25/2020 2:48:22 PM (UTC+02:00)

Modified By: CLAL-INS\NinaB

Category:

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 100

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.6.1.2 pup_ltc_key

Description: Pup Ltc Key

Help:

Modified On: 9/9/2021 4:41:42 PM (UTC+03:00)

Modified By: CLAL-INS\joshm
Category: Decrements
Variable Type: Character

Default Value: 0
Length: 10
Number of Decimals: 1
Choice List: 0

Character Type: Standard

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.6.1.3 pup_ltc_tbl

Description: Pup Ltc Tbl

Help:

Modified On: 9/9/2021 3:50:50 PM (UTC+03:00)

Modified By: CLAL-INS\joshm Category: Decrements

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.6.1.4 pup_ltc_tbl_next

Description: Pup Ltc Tbl

Help:

Modified On: 9/9/2021 4:27:02 PM (UTC+03:00)

Modified By: CLAL-INS\joshm Category: Decrements

Variable Type: Floating Point Number

Default Value: 0
Length: 0
Number of Decimals: 1

Choice List:

Character Type: Not Applicable

Valid Range From: Valid Range To:

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.6.1.5 inv_rate_clm_mth_t

Description: monthly investment rates for claims in payment

Help: monthly rate

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Income Statement|Income|Investment Income

Variable Type: Floating Point Array

Default Value: 0
Length: 120
Number of Decimals: 6

Choice List:

Character Type: Not Applicable

Valid Range From: -1
Valid Range To: 1

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.6.1.6 mgt_fee_fixed_clm

Description: fixed management fee for phi claims net bonus

calc.

Help: Annual rate.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Setup

Variable Type: Floating Point Number

Default Value: 0.6
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 20

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.6.1.7 mgt_fee_var_clm

Description: variable management fee for phi claims net

bonus calc.

Help: Annual rate.

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Setup

Variable Type: Floating Point Number

Default Value: 15
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 50

Table Format: Default Row Numbers

Set Value in Input Manager:

Variable Sharing: Not Shared

Category Order: 0

5.3.6.1.8 pizui_prop_pup_stat_c

Description: Pitzui proportion for PHI in claims

Help:

Modified On: 5/29/2025 11:25:28 AM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Setup

Variable Type: Floating Point Number

Default Value: 0.6
Length: 0
Number of Decimals: 2

Choice List:

Character Type: Not Applicable

Valid Range From: 0
Valid Range To: 20

Table Format: Default Row Numbers

Set Value in Input Manager: All

Variable Sharing: Not Shared

Category Order: 0

5.3.6.2 Columns

5.3.6.2.1 bonus_rate_acc_mthly

Description: Accumulate monthly bonus rate

Help:

Modified On: 8/9/2021 10:19:44 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category:

Column Header: bonus_rate_acc_mthly

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Last

-1

Discount Timing: End
Discount Use: No

Rate Use: Cash Flow Rebase Type: None Retain Value: Yes Override: False Virtual: False

5.3.6.2.2 bonus_rate_mthly

Description: Monthly bonus rate

Help:

Modified On: 9/10/2024 4:09:50 PM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category:

Column Header: bonus_rate_mthly

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

Rate Use: Cash Flow
Rebase Type: None
Retain Value: Yes
Override: False
Virtual: False

5.3.6.2.3 err

Description: Extraordinary Risk Reserve

Help:

Modified On: 8/26/2021 2:34:52 PM (UTC+03:00)

Modified By: CLAL-INS\joshm
Category: Balance Sheet|ERR

Column Header: err

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.6.2.4 reserve

Description: Reserve total (excluding ERR)

Help:

Modified On: 10/18/2021 10:12:11 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Balance Sheet|Reserves

Column Header: reserve
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.6.2.5 annuity_factor

Description: Annuity factor - ax

Help:

Modified On: 8/9/2021 10:19:18 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: annuity_factor
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

No

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

Yes

False

5.3.6.2.6 assurance_factor

Description: Assurance factor - Ax

Help:

Modified On: 8/9/2021 10:19:26 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: assurance_factor
Combine Groups By: Average Both

Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.6.2.7 net_prem_deficiency_b

Description: Net premium Deficiency at beginning of month

Help:

Modified On: 5/3/2022 3:16:03 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: net_prem_deficiency_b

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Last

-1

Discount Timing: Beginning

Discount Use: No

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.6.2.8 net_premium_b

Description: Net premiums at beginning of month

Help:

Modified On: 8/9/2021 10:21:43 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: net_premium_b
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1

Discount Timing: Beginning

Discount Use: No

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.6.2.9 net premium e

Description: Net premiums in force

Help:

Modified On: 8/9/2021 10:21:53 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Balance Sheet|Reserves|Basic Reserve

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

net_premium_e

Sum Both

Last

-1

End

No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.6.2.10 res_np_deficiency

Description: NP Reserve Deficiency

Help: NP Deficiency reserve based on difference

between calculated NP and gross premium *

factor (eg 90%)

Modified On: 8/9/2021 10:23:05 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: res_np_deficiency

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

False

False

5.3.6.2.11 reserve basic

Description: Basic reserve - Net or Gross Premium

Help:

Modified On: 5/3/2022 3:16:03 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: reserve_basic
Combine Groups By: Sum Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

No

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow
Previous
Yes
False
False

5.3.6.2.12 reserve basic claims

Description: Basic reserves of claims inpayment

Help:

Modified On: 1/16/2024 9:21:30 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: reserve_basic_claims

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

Piscount Find

Piscount Use:

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.6.2.13 reserve risk premium

Description: Risk premium for Basic reserve

Help:

Modified On: 3/20/2024 12:37:54 AM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: reserve_risk_premium

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.6.2.14 vnp

Description: Value of net premium - VNP

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: vnp
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.6.2.15 vsa

Description: Value of sum assured - VSA

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Balance Sheet|Reserves|Basic Reserve

Column Header: vsa
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

False

False

5.3.6.2.16 surv

Description: Propn of lives in force at end of time t

Help:

Modified On: 11/15/2022 4:50:49 PM (UTC+02:00)

Modified By: CLAL-INS\joshm Category: Decrements

Column Header: surv

Combine Groups By: Average Both

Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

No

Rate Use: Cash Flow Rebase Type: Current Yes Override: False Virtual: False

5.3.6.2.17 surv_2

Description: Propn of lives in force - secondary

Help:

Modified On: 3/12/2023 12:26:50 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Decrements
Column Header: surv_2

Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.6.2.18 surv_2_no_dec

Description: Propn of lives in force - secondary w/o decrem

Help:

Modified On: 9/20/2022 12:55:03 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa Category: Decrements
Column Header: surv_2_no_dec
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.6.2.19 surv_no_dec

Description: Propn of lives in force at end of time t - w/o

decrem

Help:

Modified On: 11/15/2022 4:58:19 PM (UTC+02:00)

Modified By: CLAL-INS\joshm
Category: Decrements
Column Header: surv_no_dec
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.6.2.20 surv_no_dth

Description: Propn of lives in force at end of time t w/o death

Help:

Modified On: 11/15/2022 4:58:24 PM (UTC+02:00)

Modified By: CLAL-INS\joshm
Category: Decrements
Column Header: surv_no_dth
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

End

Discount Use:

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.6.2.21 surv_per

Description: Probability of survival for the period

Help:

Modified On: 11/15/2022 4:51:17 PM (UTC+02:00)

Modified By: CLAL-INS\joshm
Category: Decrements
Column Header: surv_per
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.6.2.22 surv_per_no_dec

Description: Probability of survival for the period - w/o

decrement

Help:

Modified On: 11/15/2022 4:58:31 PM (UTC+02:00)

Modified By: CLAL-INS\joshm
Category: Decrements
Column Header: surv_per_no_dec
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.6.2.23 surv_per_no_dth

Description: Probability of survival for the period w/o death

Help:

Modified On: 11/15/2022 4:58:34 PM (UTC+02:00)

Modified By: CLAL-INS\joshm
Category: Decrements
Column Header: surv_per_no_dth
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.6.2.24 death_rate

Description: Independent death rate in period

Help:

Modified On: 8/26/2021 2:30:12 PM (UTC+03:00)

Modified By: CLAL-INS\joshm Category: Decrements|Death

Column Header: death_rate
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

Middle

No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.6.2.25 death_rate_dep

Description: Dependent death rate

Help:

Modified On: 8/9/2021 10:21:07 AM (UTC+03:00)

Modified By: CLAL-INS\joshm
Category: Decrements|Death
Column Header: death_rate_dep
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.6.2.26 lapse rate

Description: Lapse rate in period

Help:

Modified On: 12/19/2024 4:09:09 PM (UTC+02:00)

Modified By: CLAL-INS\arikt
Category: Decrements|Lapse

Column Header: lapse_rate
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

End

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.6.2.27 decrem rate

Description: Monthly decrement rate

Help:

Modified On: 3/19/2024 7:07:08 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Decrements|Other decrements

Column Header: decrem_rate
Combine Groups By: Average Both

Combine Periods:LastDefault sliding Size:0Discount Timing:MiddleDiscount Use:No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.6.2.28 decrem rate dep

Description: dependent decrement rate

Help:

Modified On: 8/9/2021 10:21:20 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Decrements|Other decrements

Column Header: decrem rate dep

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

0

Middle

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.6.2.29 pol fee

Description: Policy Fee

Help:

Modified On: 1/8/2023 4:50:24 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Income Statement|Income|Premium

Column Header: pol_fee
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1

Discount Timing:

Discount Use:

Beginning

Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow
Previous
Yes
False
False

5.3.6.2.30 prem_gross_no_scen

Description: Premium (including policy fee), not including

premium discount scenario

Help:

Modified On: 11/25/2020 3:03:50 PM (UTC+02:00)

Modified By: CLAL-INS\NinaB

Category: Income Statement|Income|Premium

Column Header: prem gross no scen

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Last

-1

Discount Timing:

Discount Use:

Beginning

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.6.2.31 premium

Description: premium (excluding policy fee)

Help:

Modified On: 8/24/2021 10:59:39 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Income Statement|Income|Premium

Column Header: premium
Combine Groups By: Sum Both

Combine Periods: Last Default sliding Size: -1

Discount Timing:

Discount Use:

Rate Use:

Rebase Type:

Petain Value:

Yes

Previous

Retain Value: Yes
Override: False
Virtual: False

5.3.6.2.32 premium_disc

Description: premium discount

Help:

Modified On: 3/11/2025 9:30:19 AM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Income Statement|Income|Premium

Column Header: premium_disc
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1

Discount Timing:

Discount Use:

Beginning

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.6.2.33 premium disc no scen

Description: premium discount with no discount margin

added

Help:

Modified On: 8/10/2021 10:25:49 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Income Statement|Income|Premium

Column Header: premium_disc_no_scen

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Last

-1

Discount Timing:

Discount Use:

Beginning

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.6.2.34 premium_disc_no_shimur

Description: premium discount without shimur

Help:

Modified On: 4/11/2024 6:35:41 PM (UTC+03:00)

Modified By: CLAL-INS\Arikt

Category: Income Statement|Income|Premium

Column Header: premium disc no shimur

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Last

-1

Discount Timing:

Discount Use:

Yes

Cook Flow

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.6.2.35 premium_gross

Description: Premium (including policy fee)

Help:

Modified On: 8/9/2021 10:22:24 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Income Statement|Income|Premium

Column Header: premium_gross
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1

Discount Timing: Beginning
Discount Use: Yes

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

False

False

5.3.6.2.36 claims inflation

Description: Accumulated Claims Inflation

Help:

Modified On: 8/9/2021 10:20:21 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Income Statement|Outgo|Claims

Column Header: claims_inflation
Combine Groups By: Sum Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

Pind

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.6.2.37 claims inpay

Description: Claims inpayment

Help:

Modified On: 1/30/2024 3:57:32 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Income Statement|Outgo|Claims

Column Header: claims_inpay
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End

Discount Use:

Rate Use:
Cash Flow
Rebase Type:
Previous
Retain Value:
Yes
Override:
False
Virtual:
False

5.3.6.2.38 claims inpay other

Description: Claims inpayment from event thta's not

occurring in the first quarter

Help:

Modified On: 3/15/2023 3:11:23 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Income Statement|Outgo|Claims

Column Header: claims_inpay_other

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

Description: Claims inpayment from event occurring in the

first quarter

Help:

Modified On: 1/16/2024 8:47:15 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Income Statement|Outgo|Claims

Column Header: claims_inpay_q1
Combine Groups By: Sum Both
Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Last

-1

End

Yes

Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.6.2.40 claims inpay q2

Description: Claims inpayment from event occurring in the

second quarter

Help:

Modified On: 1/16/2024 8:47:15 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Income Statement|Outgo|Claims

Column Header: claims_inpay_q2

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.6.2.41 claims_inpay_q3

Description: Claims inpayment from event occurring in the

third quarter

Help:

Modified On: 1/16/2024 8:47:13 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Income Statement|Outgo|Claims

Column Header: claims_inpay_q3

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.6.2.42 claims inpay q4

Description: Claims inpayment from event occurring in the

forth quarter

Help:

Modified On: 1/16/2024 8:47:14 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Income Statement|Outgo|Claims

Column Header: claims_inpay_q4

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Sum Both

Last

-1

End

Discount Use:

Rate Use:
Cash Flow
Rebase Type:
Previous
Retain Value:
Yes
Override:
False
Virtual:
False

5.3.6.2.43 claims_rate_per

Description: Claims Rate Per

Help:

Modified On: 11/15/2022 9:03:20 AM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Income Statement|Outgo|Claims

Column Header: claims_rate_per
Combine Groups By: Sum Both
Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

-1

End

Yes

Rate Use: Cash Flow Rebase Type: Previous

Retain Value: Yes
Override: False
Virtual: False

5.3.6.2.44 claims_rate_per_other

Description: Claims rate per from event thta's not occurring

in the first quarter

Help:

Modified On: 3/15/2023 3:11:30 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Income Statement|Outgo|Claims

Column Header: claims_rate_per_other

Combine Groups By: Sum Both Combine Periods: Last -1 Default sliding Size: **Discount Timing:** End Discount Use: Yes Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

Description: Claims_rate_per from event occurring in the

first quarter

Help:

Modified On: 1/16/2024 8:55:09 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Income Statement|Outgo|Claims

Column Header: claims_rate_per_q1

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Sum Both

Last

-1

End

Yes

Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.6.2.46 claims rate per q2

Description: Claims_rate_per from event occurring in the

second quarter

Help:

Modified On: 1/16/2024 8:54:34 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Income Statement|Outgo|Claims

Column Header: claims_rate_per_q2

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

Description: Claims_rate_per from event occurring in the

third quarter

Help:

Modified On: 1/16/2024 8:54:01 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Income Statement|Outgo|Claims

Column Header: claims_rate_per_q3

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

Description: Claims_rate_per from event occurring in the

forth quarter

Help:

Modified On: 1/16/2024 8:53:44 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Income Statement|Outgo|Claims

Column Header: claims_rate_per_q4

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Last

-1

Discount Timing: End
Discount Use: Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.6.2.49 claims total

Description: Claims Paid (total)

Help:

Modified On: 11/30/2022 5:45:09 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Income Statement|Outgo|Claims

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Rate Use:

Claims_total

Sum Both

Last

Last

-1

End

Yes

Cash Flow

Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.6.2.50 premium_if_b

Description: Premium in force at start of period

Help:

Modified On: 1/18/2023 1:22:35 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Inforce Details|Premium

Column Header: premium_if_b
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1

Discount Timing: Beginning

Discount Use: No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.6.2.51 premium_if_b_2

Description: Prem IF at start of period - secondary

Help:

Modified On: 11/16/2022 8:31:44 AM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Inforce Details|Premium

Column Header: premium_if_b_2
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1

Discount Timing: Beginning

Discount Use: No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

Description: Premium in force at end of period

Help:

Modified On: 8/9/2021 10:22:51 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Inforce Details|Premium

Column Header: premium_if_e
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End

Discount Use:

Rate Use:

Cash Flow
Rebase Type:

Current
Retain Value:

Override:

Virtual:

No

Cash Flow

Yes

Current

Yes

False

5.3.6.2.53 **sum_at_risk_if**

Description: Sum at risk in force

Help:

Modified On: 8/9/2021 10:23:49 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Inforce Details|Sum Assured

Column Header: sum_at_rsk_if
Combine Groups By: Sum Both
Combine Periods: Last

Default sliding Size:

Discount Timing:

Discount Use:

No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.6.2.54 **sum_insured**

Description: Sum insured - undecremented

Help:

Modified On: 1/9/2023 12:01:59 PM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Inforce Details|Sum Assured

Column Header: sum_insured
Combine Groups By: Sum Both
Combine Periods: Last
Default sliding Size: -1
Discount Timing: End
Discount Use: No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.6.2.55 **sum_insured_if_b**

Description: Sum insured in force (start of month)

Help:

Modified On: 8/24/2021 10:59:44 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Inforce Details|Sum Assured

Column Header: sum insured if b

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Last

-1

Discount Timing: Beginning
Discount Use: No

Rate Use:

Rebase Type:

Current

Retain Value:

Yes

Override:

False

Virtual: False

5.3.6.2.56 sum_insured_if_b_2

Description: SI IF (start of mth) - secondary

Help:

Modified On: 9/12/2021 2:13:48 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Inforce Details|Sum Assured

Column Header: sum_insured_if_b_2

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Last

-1

Discount Timing: Beginning

Discount Use: No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.6.2.57 sum_insured_if_b_2_no_dec

Description: SI IF (start of mth) - secondary w/o decrem

Help:

Modified On: 9/20/2022 1:00:40 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Inforce Details|Sum Assured Column Header: sum insured if b 2 no dec

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Last

-1

Discount Timing: Beginning

Discount Use: No

Rate Use: Cash Flow Rebase Type: Current Yes Override: False Virtual: False

5.3.6.2.58 sum_insured_if_b_no_dec

Description: Sum insured in force (start of month) w/o

decrement

Help:

Modified On: 9/20/2022 11:31:12 AM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Inforce Details|Sum Assured Column Header: sum_insured_if_b_no_dec

Combine Groups By: Sum Both

Combine Periods: Last Default sliding Size: -1

Discount Timing:

Discount Use:

No

Rate Use: Cash Flow Rebase Type: Current Yes Override: False Virtual: False

5.3.6.2.59 sum insured if b no dth

Description: Sum insured in force (start of month) w/o death

Help:

Modified On: 9/20/2022 1:09:46 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Inforce Details|Sum Assured Column Header: sum_insured_if_b_no_dth

Combine Groups By:

Combine Periods:

Default sliding Size:

Sum Both

Last

-1

Discount Timing: Beginning

Discount Use: No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.6.2.60 pup_ltc_col

Description: Pup Ltc Col

Help:

Modified On: 9/9/2021 3:00:41 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Lapses
Column Header: pup_ltc_col
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

End
Discount Use:

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.6.2.61 pup_ltc_col_next

Description: Pup Ltc Col

Help:

Modified On: 9/9/2021 5:42:08 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Lapses

Column Header: pup_ltc_col_next Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

Pind

Yes

Rate Use: Cash Flow Rebase Type: Previous Retain Value: Yes Override: False Virtual: False

5.3.6.2.62 claims re

Description: Reinsurance Claims Paid

Help:

Modified On: 6/10/2021 5:03:50 PM (UTC+03:00)

Modified By: CLAL-INS\joshm Category: Reinsurance Column Header: claims re Sum Both Combine Groups By: Combine Periods: Last Default sliding Size: 0 **Discount Timing:** End Yes Discount Use: Cash Flow Rate Use: Current

Rebase Type: Curre
Retain Value: Yes
Override: False
Virtual: False

5.3.6.2.63 comm_re

Description: Initial and renewal reins commission

Help:

Modified On: 1/5/2025 3:18:25 PM (UTC+02:00)

Modified By:

Category:

Column Header:

Combine Groups By:

Combine Periods:

CLAL-INS\arikt

Reinsurance

comm_re

Sum Both

Last

Default sliding Size: 0

Discount Timing:

Discount Use:

Beginning

Yes

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.6.2.64 comm_re_prof

Description: Reinsurance profit commission
Help: Reinsurance profit commission

Paid every month

Modified On: 7/26/2022 4:37:30 PM (UTC+03:00)

Modified By:

Category:

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

CLAL-INS\ahuvaa

Reinsurance

comm_re_prof

Sum Both

Last

0

Discount Timing:

Discount Use:

Beginning

Yes

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.6.2.65 exp re nom

Description: reinsurance nominal expenses

Help:

Modified On: 6/10/2021 5:08:30 PM (UTC+03:00)

Modified By:

Category:

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

CLAL-INS\joshm
Reinsurance
exp_re_nom
Sum Both
Last
0

Discount Timing:

Beginning

Discount Use: Yes
Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.6.2.66 interest re

Description: Interest on the reinsurance reserve

Help:

Modified On: 1/1/2025 3:09:01 PM (UTC+02:00)

Modified By: CLAL-INS\arikt Category: Reinsurance Column Header: interest re Sum Both Combine Groups By: Last Combine Periods: Default sliding Size: 0 End **Discount Timing:** Discount Use: Yes

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

Description: Reins premium in force at start of perio

Help:

Modified On: 1/11/2023 7:21:58 PM (UTC+02:00)

Modified By: CLAL-INS\joshm Category: Reinsurance Column Header: premium_if_b_re Combine Groups By: Sum Both

Combine Groups By:

Combine Periods:

Default sliding Size:

0

Discount Timing: Beginning

Discount Use: No

Rate Use: Cash Flow
Rebase Type: Current
Retain Value: Yes
Override: False
Virtual: False

5.3.6.2.68 premium_re

Description: Reins Premium income at begin. of period

Help:

Modified On: 1/22/2024 4:22:16 PM (UTC+02:00)

Modified By:

Category:

Column Header:

Combine Groups By:

Combine Periods:

CLAL-INS\Arikt

Reinsurance

premium_re

Sum Both

Last

Default sliding Size: 0

Discount Timing:

Discount Use:

Beginning

Yes

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.6.2.69 profit_re

Description: reinsurance profit for the period

Help:

Modified On: 5/5/2021 11:40:57 AM (UTC+03:00)

Modified By: CLAL-INS\joshm Category: Reinsurance Column Header: profit_re Combine Groups By: Sum Both Combine Periods: Last Default sliding Size: 0 **Discount Timing:** End Discount Use: Yes

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes Override: False Virtual: False

5.3.6.2.70 reserve_re

Description: Reinsurance Reserve

Help:

Modified On: 11/15/2022 8:31:05 AM (UTC+02:00)

Modified By:

Category:

Column Header:

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

CLAL-INS\joshm
Reinsurance
reserve_re
Sum Both
Last
-1
End

Discount Use:

Rate Use:
Cash Flow
Rebase Type:
Previous
Retain Value:
Yes
Override:
False
Virtual:
False

5.3.6.2.71 reserve_re_increase

Description: Increase in reinsurance reserve

Help:

Modified On: 9/12/2024 11:49:10 AM (UTC+03:00)

Modified By: CLAL-INS\arikt Category: Reinsurance

Column Header: reserve_re_increase

Combine Groups By:

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Sum Both

Last

-1

End

Yes

Rate Use: Cash Flow
Rebase Type: Previous
Retain Value: Yes
Override: False
Virtual: False

5.3.6.2.72 startup

Description: Startup

Help:

Modified On: 1/16/2024 2:03:04 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Setup
Column Header: startup
Combine Groups By: Average Both

Combine Periods:

Default sliding Size:

Discount Timing:

Discount Use:

Last

-1

No

Rate Use:

Rebase Type:

Retain Value:

Override:

Virtual:

Cash Flow

Previous

Yes

False

False

5.3.6.2.73 pol_sub_year

Description: Policy sub year/term

Help:

Modified On: 8/9/2021 10:21:59 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Timing
Column Header: pol_sub_year
Combine Groups By: Average Both

Combine Periods: Last

Default sliding Size:

Discount Timing: Beginning

Discount Use: No

Rate Use: Cash Flow Rebase Type: Current Retain Value: Yes False Override: Virtual: False

5.3.6.2.74 proj_month

Description: Projection month

Help:

8/27/2019 4:00:59 PM (UTC+03:00) Modified On:

Modified By: CLAL-INS\ninab

Category: **Timing** Column Header: proj_month Combine Groups By: Average Both

Combine Periods: Last Default sliding Size: -1

Discount Timing: Beginning

Discount Use: No

Rate Use: Cash Flow Current Rebase Type: Retain Value: Yes Override: False Virtual: False

5.3.6.3 External Functions

5.3.6.3.1 monthly rate

Description: Convert annual to monthly

Given an annual interest rate, expressed as i% Help:

this external formula returns i(12)/12%, i.e. the monthly rate which compounds to give the annual rate, eg monthly_rate(10)=0.007974

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Setup

5.3.6.3.2 set_other_variables

Description: Setup other variables

External function to calculate and/or adjust Help:

variables before running projection. This function is called from startup.

Modified On: 1/11/2023 11:32:03 AM (UTC+02:00)

Modified By: CLAL-INS\ahuvaa

Category: Setup

5.3.6.3.3 validate_data

Description: Validate Data

Help: This function carries out data validation checks

on the input data and skips the model point if errors are detected, via the throw command.

Modified On: 8/25/2022 2:11:54 PM (UTC+03:00)

Modified By: CLAL-INS\ahuvaa

Category: Setup

5.3.6.4 Temporary Tables

5.3.6.4.1 claims_inpay_res

Description: basic reserves for claims in payment of PHI

Help:

Modified On: 1/24/2024 11:59:28 AM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Number of Rows: 5
Number of Columns: 5
Calculation Methods: Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.6.4.2 res_cx

Description: Reserve Commutation Cx

Help:

Modified On: 3/20/2024 12:38:07 AM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Number of Rows: 130
Number of Columns: 1
Calculation Methods: Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.6.4.3 res_dx

Description: Reserve Commutation Dx

Help:

Modified On: 7/28/2021 4:14:53 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Balance Sheet|Reserves|Basic Reserve

Number of Rows: 130
Number of Columns: 1
Calculation Methods: Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.6.4.4 res lx

Description: Reserve Commutation Ix

Help:

Modified On: 3/20/2024 12:38:22 AM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Balance Sheet|Reserves|Basic Reserve

Number of Rows: 130
Number of Columns: 1
Calculation Methods: Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.6.4.5 res mx

Description: Reserve Commutation Mx

Help:

Modified On: 7/28/2021 4:15:15 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Balance Sheet|Reserves|Basic Reserve

Number of Rows: 130
Number of Columns: 1
Calculation Methods: Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.6.4.6 res_nx

Description: Reserve Commutation Nx

Help:

Modified On: 7/28/2021 4:15:20 PM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Balance Sheet|Reserves|Basic Reserve

Number of Rows: 130
Number of Columns: 1
Calculation Methods: Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.6.4.7 res_vx

Description: Reserve Interest vx

Help:

Modified On: 7/22/2021 10:50:57 AM (UTC+03:00)

Modified By: CLAL-INS\joshm

Category: Balance Sheet|Reserves|Basic Reserve

Number of Rows: 131
Number of Columns: 1
Calculation Methods: Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.6.4.8 claims_cost_factors

Description: Claims cost factors at point of claim for PHI &

LTC

Help:

Modified On: 11/1/2021 5:40:14 PM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category: Income Statement|Outgo|Claims

Number of Rows: 106
Number of Columns: 2
Calculation Methods: Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False

Virtual: False

5.3.6.4.9 claims_inpay_pv

Description: Discount to time t of future Claims of PHI &

LTC

Help:

Modified On: 2/1/2024 6:45:48 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Income Statement|Outgo|Claims

Number of Rows: 5
Number of Columns: 5
Calculation Methods: Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.6.4.10 claims_inpay_rate

Description: Claims in payment rates for PHI & LTC

Help:

Modified On: 1/29/2024 6:04:27 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Income Statement|Outgo|Claims

Number of Rows: 5
Number of Columns: 5
Calculation Methods: Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.6.4.11 claims_inpay_rate_pv

Description: Help:

Modified On: 1/31/2024 9:57:01 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Income Statement|Outgo|Claims

Number of Rows: 5
Number of Columns: 5
Calculation Methods: Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.6.4.12 claims_inpay_res_factor

Description: Help:

Modified On: 1/31/2024 9:57:22 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category: Income Statement|Outgo|Claims

Number of Rows: 5
Number of Columns: 5
Calculation Methods: Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.6.4.13 claims inpayment

Description: Claims in payment for PHI & LTC

Help:

Modified On: 5/29/2025 11:28:53 AM (UTC+03:00)

Modified By: CLAL-INS\arikt

Category: Income Statement|Outgo|Claims

Number of Rows:5Number of Columns:5Calculation Methods:Cell

Reset Variables:

Resetting Type: Reset Temporary Table for every model point

and/or projection loop

Override: False Virtual: False

5.3.6.5 Scalars

5.3.6.5.1 claims inflation mthly

Description: Monthly claims inflation percentage

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Rebase: N/A Type: Double Override: False Virtual: False

5.3.6.5.2 interest_rein_mthly

Description: Monthly interest rate on reinsurance reserves

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.6.5.3 sexcode

Description: Code for sex of insured 1. 0=Male, 1=Female

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category:

Rebase: N/A
Type: Integer
Override: False
Virtual: False

5.3.6.5.4 t start

Description: projection start point

Help:

Modified On: 11/15/2022 9:03:39 AM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category:

Rebase: N/A
Type: Integer
Override: False
Virtual: False

5.3.6.5.5 temp_tbl_size

Description: temporary table size for phi & ltc

Help:

Modified On: 11/15/2022 9:03:35 AM (UTC+02:00)

Modified By: CLAL-INS\joshm

Category:

Rebase: N/A

Type: Integer
Override: False
Virtual: False

5.3.6.5.6 wp_phi

Description: phi wating period

Help:

Modified On: 1/29/2024 6:12:32 PM (UTC+02:00)

Modified By: CLAL-INS\Arikt

Category:

Rebase: N/A
Type: Integer
Override: False
Virtual: False

5.3.6.5.7 int rate res hy

Description: Half-yearly interest rate for reserves

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Balance Sheet|Reserves

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.3.6.5.8 int_rate_res_mthly

Description: Monthly interest rate for reserves

Help:

Modified On: 8/27/2019 4:00:59 PM (UTC+03:00)

Modified By: CLAL-INS\ninab

Category: Balance Sheet|Reserves

Rebase: N/A
Type: Double
Override: False
Virtual: False

5.4 Custom Outputs

<No Custom Outputs Exist>

5.5 Externs and DLLs/Libs

<No Externs and DLLs/Libs Exist>

6 Appendix

6.1 Formulas

All lines are shown per Formula.

double tagold money temp = 0.0;

6.1.1 Model Classes

6.1.1.1 ann cflow

6.1.1.1.1 Columns

```
6.1.1.1.1.1
                 cashflow_b_post_ret
if (t <= commence_period_w || t > maturity_period_ann)
       return 0.0;
if (annuity_pmt_curr_tot == 0)
       return 0.0;
return - pmt_total(t) - expense_ren_perc_post_ret(t);
6.1.1.1.1.2
                 res_ann_deficiency
if (t < 0 || t >= maturity_period_w || zeroise_ann_def=="Y")
    return 0.0;
if (life->retirement_age_lookup(1) > takeup_age)
       return 0.;
if(life->submodel == "TERM" || annuity_pmt_curr_tot == 0)
       return NO_AVG;
if(life->submodel == "TRAD" && (annuitization_rate<=0.00001 || !(eq(life->ben_class, "GIMLA")))) //
TRAD
       return 0.0;
if(life->annuitization_rate<=0.00001 || life->res_prop_kitzba<=0.0) // *** need way to distinguish
between policies with and without guarantees, and with and without kitzva option
       return 0.0;
int age_takeup_local = takeup_age;
double tagold_money = 0.0;
double new_money = 0.0;
double reserve_noret = 0.0;
double units_e_old_noret = 0.0;
double units_e_noret = 0.0;
double units_e_hon_noret = 0.0;
```

```
double prop_new_money = 0.0;
double prat_money = 0.0;
double piz_money = 0.0;
double tagnew_money = 0.0;
if(dump_vars == "Y"){
       log_strm << t<<": Takeup age: "<< age_takeup_local<<endl;</pre>
       log_strm<<"Old units: "<<li>!"<<li>!"<=>units_e_old(t)<<endl;</pre>
       log_strm<<"Ret prop col t+1: "<<li>!"<=>ret_prop_col(t+1)<<endl;</pre>
       log_strm<<"Ret prop array: "<<ret_prop_array[ann_index_map[takeup_age]]<<endl;</pre>
       log strm<<"Retirement prop: "<<retirement prop<<endl;</pre>
}
//Split of current savings balance into prat, oldtag, newtag and piz
if(life->submodel == "TRAD"){ //TRAD
       if(life->ret_prop_col(t+1) > SMALL_DOUBLE){
               reserve_noret = trad->reserve_basic(t)/life->ret_prop_col(t+1) *
ret_prop_array[ann_index_map[takeup_age]] * retirement_prop;
       }
       tagold_money = (trad->res_basic_act_old(t) + trad->res_basic_pup_old(t))
                                     /life->ret_prop_col(t+1)
                                      * ret_prop_array[ann_index_map[takeup_age]]
                                      * retirement_prop;
       tagold_money_temp = tagold_money;
       new_money = max(reserve_noret * life->res_prop_kitzba- tagold_money, 0.0);
                                                                                        // new money
in-force at time t
       if(dump vars == "Y"){
       log_strm << t<<": Takeup age: "<< age_takeup_local<<endl;</pre>
       log_strm<<"Tagold money: "<<tagold_money<<endl;</pre>
       log_strm<<"New money: "<<new_money<<endl;</pre>
       }
       //Add bonus for before mat date
       tagnew_money = (trad->res_basic_act_newtag(t) + trad->res_basic_pup_newtag(t))
                                     /life->ret_prop_col(t+1)
                                      * ret_prop_array[ann_index_map[takeup_age]]
                                     * retirement_prop;
       piz_money = (trad->res_basic_act_piz(t) + trad->res_basic_pup_piz(t))
                              /life->ret_prop_col(t+1)
                                     * ret_prop_array[ann_index_map[takeup_age]]
                                     * retirement_prop;
       prat_money = (trad->res_basic_act_prat(t) + trad->res_basic_pup_prat(t))
                              /life->ret_prop_col(t+1)
                                      * ret_prop_array[ann_index_map[takeup_age]]
                                      * retirement_prop;
       if(t < life->mat_period_original && (tagold_money + new_money) > 0){
```

```
tagold_money = tagold_money
                                            + (trad->bonus_if(t) + trad->bonus_if_pup(t) )
                                            /life->ret_prop_col(t+1)
                                            * ret_prop_array[ann_index_map[takeup_age]]
                                            * retirement_prop
                                            * tagold_money
                                            / (tagold_money_temp + new_money);
              tagnew_money = tagnew_money
                                            + (trad->bonus_if(t) + trad->bonus_if_pup(t) )
                                            /life->ret_prop_col(t+1)
                                            * ret_prop_array[ann_index_map[takeup_age]]
                                            * retirement_prop
                                            * (tagnew_money + piz_money) // Add piz part of bonus to
tagnew
                                            / (tagold_money_temp + new_money);
              piz_money =
                                     piz_money; //No bonus on piz
                             prat_money
              prat_money =
                                            + (trad->bonus_if(t) + trad->bonus_if_pup(t) )
                                            /life->ret_prop_col(t+1)
                                            * ret_prop_array[ann_index_map[takeup_age]]
                                            * retirement_prop
                                            * prat_money
                                            / (tagold_money_temp + new_money);
              new_money = new_money
                                            + (trad->bonus_if(t) + trad->bonus_if_pup(t) )
                                            /life->ret_prop_col(t+1)
                                            * ret_prop_array[ann_index_map[takeup_age]]
                                            * retirement_prop
                                            * new_money
                                            / (tagold_money_temp + new_money);
       }
       if(dump_vars == "Y"){
       log_strm << "Including bonus:"<<endl;</pre>
       log_strm<<"Tagold money: "<<tagold_money<<endl;</pre>
       log_strm<<"New money: "<<new_money<<endl;</pre>
}else{
       if(life->ret_prop_col(t+1) > SMALL_DOUBLE){
              tagold_money = life->units_e_old(t)/life->ret_prop_col(t+1) *
ret_prop_array[ann_index_map[takeup_age]] * retirement_prop;
              tagnew_money = life->units_e_newtag(t)/life->ret_prop_col(t+1) *
ret_prop_array[ann_index_map[takeup_age]] * retirement_prop;
              prat_money = life->units_e_prat(t)/life->ret_prop_col(t+1) *
ret_prop_array[ann_index_map[takeup_age]] * retirement_prop;
              piz_money = life->units_e_piz(t)/life->ret_prop_col(t+1) *
ret_prop_array[ann_index_map[takeup_age]] * retirement_prop;
```

```
}
}
if(dump_vars == "Y"){
       log_strm<<"Old money: "<<tagold_money<<endl;</pre>
       log_strm<<"Prat money: "<<pre>rat_money<<endl;</pre>
       log_strm<<"Piz money: "<<piz_money<<endl;</pre>
       log_strm<<"Tag new money: "<<tagnew_money<<endl;</pre>
// Set T factors (annuity deficiency percentage)
double ann_ratio_tagnew = ann_ratio_res ;
double ann_ratio_other = ann_ratio_res * (1+antisel_margin) ; // extra margin on annuity factor
for old money and if past maturity age (assume selective mortality for annuitants without tax
incentive)
if(dump vars == "Y"){
       log_strm<<"T-factor: "<<ann_ratio_res<<endl;</pre>
// Set Discount Factor
double annuity_def_res_inv_margin = life->ann_def_res_inv_margin;
if (eq(life->par_nonpar,"P"))
       annuity_def_res_inv_margin = life->ann_def_res_inv_margin_par;
double discount_factor = pow(1. + annuity_def_res_inv_margin/100. , -max(0., age_takeup_local -
life->age_last(t)));
// Set Survial factor, allowing for mortality and lapses
double survive = life->survive_tbl; // survival factor (mortality only) from t until age 65 (based
on regulatory mortality)
if(dump_vars == "Y"){
       log_strm<<"Discount factor: "<<discount_factor<<endl;</pre>
       log_strm<<"Survival factor: "<<survive<<endl;</pre>
       }
if (life->age_last(t) < life->min_retirement_age){
       if (eq(life->par_nonpar, "N"))
               survive = survive * pow( 1 - life->res_anndef_lapse, max(0., life->min_retirement_age
- life->age_last(t)) );
       else
               survive = survive * pow( 1 - life->res_anndef_lapse_par, max(0., life-
>min_retirement_age - life->age_last(t)) );
if(dump vars == "Y"){
       log_strm<<"Survival factor with lapses: "<<survive<<endl;</pre>
       }
double take_up_pizz = annuity_takeup_piz_res/100.;
```

```
double res_factor = max(ann_ratio_other * discount_factor-1,0);
double res_tag_factor = max(ann_ratio_tagnew * discount_factor-1,0);
if(dump_vars == "Y"){
       log_strm<<"Res factor other: "<<res_factor<<endl;</pre>
       log_strm<<"Res factor newtag: "<<res_tag_factor<<endl;</pre>
if (life->submodel != "TRAD" && (atoi(life->fund) <53 || (atoi(life->fund) > 400 &&
xint(atoi(life->fund)/10)< 53))) {</pre>
       res_factor = ann_ratio_other * discount_factor-1;
       res_tag_factor = ann_ratio_tagnew * discount_factor-1;
// reset annuitisation rate
if (life->submodel == "TRAD" && trad->reserve_basic(t)>0.0)
       annuitization_rate = (prat_money * annuity_takeup_old/100.
              + piz_money * take_up_pizz
               + tagold_money * annuity_takeup_old/100.
               + tagnew_money * annuity_takeup_new_tag/100 ) / trad->reserve_basic(t);
double extra_res = (
                                     prat_money * annuity_takeup_prat_res/100. *res_factor
                                     + piz_money * take_up_pizz * res_factor
                                     + tagold_money * annuity_takeup_old_res/100. * res_factor
                                     + tagnew_money * annuity_takeup_new_tag_res/100 *
res_tag_factor
                                     ) * survive;
return max(extra res,0.0);
6.1.1.1.1.3
                 claims_annuity_nogt_pv
if (t < commence_period_w || t > maturity_period_ann)
     return 0.0;
if (annuity_pmt_curr_tot == 0)
     return 0.0;
int proj_yr = xint(life->proj_year(t+1));
if(eq(life->projection_type_int, "Rollup"))
       proj_yr = xint(life->proj_year_rollup(t+1));
if (t >= maturity period w)
       return claims_annuity_nogt_pv(t+1) * life->ann_v_month_t[proj_yr]
                      + pmt_total_nogt(t+1);
return 0.0;
6.1.1.1.1.4
                 claims_annuity_pv
if (t < commence_period_w || t > maturity_period_ann)
     return 0.0;
if (annuity_pmt_curr_tot == 0)
     return 0.0;
```

```
int proj_yr = xint(life->proj_year(t+1));
if(eq(life->projection_type_int, "Rollup"))
       proj_yr = xint(life->proj_year_rollup(t+1));
if (t >= maturity_period_w)
       return claims_annuity_pv(t+1) * life->ann_v_month_t[proj_yr]
                      + pmt_total(t+1);
return 0.0;
6.1.1.1.5
                 int_rate_annuity_reserve
if (t <= commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (annuity_pmt_curr_tot == 0)
       return NO_AVG;
int inv_year = max(min(life->proj_year(t), 100), 0);
double inv_prop = life->free_inv_prop_t[inv_year];
return freeinv_rate_res_ann/100.
              * inv_prop
              + life->invinc/100.
              * (1 - inv_prop);
6.1.1.1.1.6
                 res_basic_jl_1
if (t < commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (eq(joint_life_status, "Single") || ann_pmt_curr_jl == 0)
       return NO_AVG;
double res_1 = res_payment_pv_1(t+1);
if (surv_1_res(t+1) > 0)
       res_1 = res_1 * surv_1(t+1) / surv_1_res(t+1);
if (t == maturity_period_w)
       return res_1 * (1.+exp_res/100.);
return (res_1)
              *(1.+exp res/100.) * bonus index jl 1(t);
6.1.1.1.1.7
                 res_payment_1
if (t <= commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (annuity pmt curr tot == 0)
       return NO AVG;
if (age_pol_1(t) > life->omega_age_w) // omega age allows for table adjustment
       return 0.0;
```

```
return ann_pmt_curr_jl * surv_1_res(t-1);
6.1.1.1.1.8
                 res_payment_2
if (t <= commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (annuity_pmt_curr_tot == 0)
       return NO_AVG;
if (age_pol_2(t) > life->omega_age_w) // omega age allows for table adjustment
       return 0.0;
if (t > 0)
       return ann_pmt_curr_jl * surv_2_joint_life_res(t-1);
return 0.0;
6.1.1.1.1.9
                 res payment pv 1
if (t <= commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (annuity_pmt_curr_tot == 0)
       return NO_AVG;
double v = pow(1. + int rate annuity reserve(t+1), -1./12.);
return res payment pv 1(t+1) * v
              + res payment 1(t+1); //Paid at start of month, so does not need to be discounted
6.1.1.1.1.10
                 res_payment_pv_2
if (t <= commence_period_w || t > maturity_period_ann)
       return NO AVG;
if (annuity pmt curr tot == 0)
       return NO AVG;
double v = pow(1. + int_rate_annuity_reserve(t+1), -1./12.);
return res_payment_pv_2(t+1) * v
              + res_payment_2(t+1); //Paid at start of month, so does not need to be discounted
6.1.1.1.1.11
                 ann_takeup_rate
if ((t < 0) || (t >= maturity_period_w))
       return 0.0;
if(life->submodel == "TERM")
       return NO AVG;
if (life->submodel=="TRAD" && (annuitization_rate<=0.00001 || !(eq(life->ben_class, "GIMLA"))))
       return 0.0;
if(life->annuitization_rate<=0.00001 || life->res_prop_kitzba<=0.0) // *** need way to distinguish
between policies with and without guarantees, and with and without kitzva option
       return 0.0;
```

```
if (life->age_last(t)>80.0)
       return 0.0;
// reset annuitisation rate
double ann_rate = 0.0;
if (life->submodel == "TRAD")
{
       double tagold_money = 0.0;
       double new money = 0.0;
       double prat_money = 0.0;
       double piz_money = 0.0;
       double tagnew money = 0.0;
//Split of current savings balance into prat, oldtag, newtag and piz
       if (trad->reserve_basic(t) > 0){
       tagold_money = trad->res_basic_act_old(t) + trad->res_basic_pup_old(t)//Base part
                                     + (trad->res_basic_act_old(t) + trad->res_basic_pup_old(t))
                                     / trad->reserve_basic(t)
                                     * (trad->bonus_if(t) + trad->bonus_if_pup(t)); //Part of bonus
belonging to old
       tagnew_money = (trad->res_basic_act_newtag(t) + trad->res_basic_pup_newtag(t))
                                     + (trad->res_basic_act_newtag(t) + trad-
>res basic pup newtag(t)
                                             + trad->res_basic_act_piz(t) + trad-
>res_basic_pup_piz(t))
                                             / trad->reserve basic(t)
                                             * (trad->bonus if(t) + trad->bonus if pup(t)); //Part of
bonus belonging to newtag;
       piz_money = (trad->res_basic_act_piz(t) + trad->res_basic_pup_piz(t));
       prat_money = trad->res_basic_act_prat(t) + trad->res_basic_pup_prat(t)
                                     + (trad->res_basic_act_prat(t) + trad->res_basic_pup_prat(t))
                                      / trad->reserve_basic(t)
                                     * (trad->bonus_if(t) + trad->bonus_if_pup(t)); //Part of bonus
belonging to prat;;
       }
       if(dump_vars == "Y"){
               log_strm << t<<": Takeup age: "<< takeup_age<<endl;</pre>
               log_strm<<"Old money: "<<tagold_money<<endl;</pre>
               log_strm<<"Newtag money: "<<tagnew_money<<endl;</pre>
               log_strm<<"Piz money: "<<piz_money<<endl;</pre>
               log_strm<<"Prat money: "<<pre>rat_money<<endl;</pre>
               log_strm<<"Total res: "<<trad->reserve_basic(t)<<endl;</pre>
       }
```

```
if ( trad->reserve_basic(t)>0.0){
       ann_rate = (prat_money * annuity_takeup_prat/100.
                     + piz_money * annuity_takeup_piz/100.
                     + tagold_money * annuity_takeup_old/100.
              + tagnew_money * annuity_takeup_new_tag/100. ) / (trad->reserve_basic(t) + trad-
>bonus_if(t) + trad->bonus_if_pup(t));
       if (life->margin_add=="Y") {
               ann_rate = (prat_money * min(annuity_takeup_prat/100.*(1 + life-
>margin_annuity_takeup/100.), life->annuity_takeup_max)
                     + piz_money * min(annuity_takeup_piz/100.*(1 + life-
>margin_annuity_takeup/100.), life->annuity_takeup_max)
                     + tagold_money * min(annuity_takeup_old/100.*(1 + life-
>margin_annuity_takeup/100.), life->annuity_takeup_max)
+ tagnew_money * min(annuity_takeup_new_tag/100.*(1 + life-
>margin_annuity_takeup/100.), life->annuity_takeup_max) ) / (trad->reserve_basic(t) + trad-
>bonus_if(t) + trad->bonus_if_pup(t));
           }
       return ann_rate;
       }
}
else
{
if (life->units e(t)>0.0){
       ann_rate = (life->units_e_prat(t) * annuity_takeup_prat/100.
                        + life->units_e_piz(t) * annuity_takeup_piz/100.
                        + life->units_e_old(t) * annuity_takeup_old/100.
                        + life->units_e_newtag(t) * annuity_takeup_new_tag/100. ) / life-
>units_e(t);
//
       if (life->margin_add=="Y") {
               ann_rate = (life->units_e_prat(t) * min(annuity_takeup_prat/100.*(1 + life-
>margin_annuity_takeup/100.), life->annuity_takeup_max)
                         + life->units_e_piz(t) * min(annuity_takeup_piz/100.*(1 + life-
>margin_annuity_takeup/100.), life->annuity_takeup_max)
                        + life->units_e_old(t) * min(annuity_takeup_old/100.*(1 + life-
>margin_annuity_takeup/100.), life->annuity_takeup_max)
                         + life->units_e_newtag(t) * min(annuity_takeup_new_tag/100.*(1 + life-
>margin_annuity_takeup/100.), life->annuity_takeup_max) ) / life->units_e(t);
       return ann_rate;
}
return 0.0;
6.1.1.1.1.12
                 ann_certain_fac
if (t < commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (annuity_pmt_curr_tot == 0)
       return NO AVG;
if (eq(life->paid_up, "G") && (gteed_term ==0 || t > gteed_term))
```

```
return NO_AVG;
if (!eq(life->paid_up, "G") && t > commence_period_w + gteed_term)
       return NO AVG;
double v_rate_res_m = pow(res_vx_ann(age_pol_1(t)+1,sexcode_1),1./12.);
if(res_vx_ann(age_pol_1(t),sexcode_1) > 0.)
       v_rate_res_m =
pow((res\_vx\_ann(age\_pol\_1(t)+1,sexcode\_1)/res\_vx\_ann(age\_pol\_1(t),sexcode\_1)),1./12.);
return 1+ ann_certain_fac(t+1)*v_rate_res_m;
6.1.1.1.1.13
                 ann defer fac
if (t <commence_period_w || t > maturity_period_ann || annuity_pmt_curr_tot == 0)
       return NO AVG;
if((life->ann_maslul<=100 ||life->ann_death == 1 ) && eq(life->paid_up, "G"))
       return NO_AVG;
if (t < commence period w)</pre>
return 0.0;
if (t == commence period w)
return ann_defer_fac(t+1);
int age_ann_defer = xint(age_ann_start_1+ gteed_term/12);
int temp_gteed_term = commence_period_w + gteed_term;
if (eq(life->paid_up, "G")){
       age_ann_defer = life->age_at_issue + xint(life->ann_maslul/100.);
       temp_gteed_term = gteed_term;
}
if (age_pol_1(t) > 120 || (age_ann_start_1+ gteed_term/12 > 120))
return 0.0;
if (t > temp_gteed_term )
       return annuity_fac_1(t);
return (res_nx_ann(age_ann_defer,sexcode_1)/ res_dx_ann(age_ann_defer,sexcode_1)-
11./24.)*res_dx_ann(age_ann_defer,sexcode_1)/res_dx_ann(xint(age_pol_1(t)),sexcode_1)*12.;
6.1.1.1.1.14
                 annuity_fac_1
if (t <= commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (annuity_pmt_curr_tot == 0)
       return NO AVG;
if (age_pol_1(t) == 121)
       return annuity_fac_1(t-1);
if (age_pol_1(t) > 121)
       return 0.0;
return (res_nx_ann(xint(age_pol_1(t)),sexcode_1)/ res_dx_ann(xint(age_pol_1(t)),sexcode_1)-
11./24.)*12.;
```

6.1.1.1.1.5 assurance fac 1 if (t < commence_period_w || t > maturity_period_ann) return NO AVG; if (death_ben == "N" || annuity_pmt_curr_tot == 0) return NO_AVG; int age_now = xint(age_pol_1(t)); return res_mx_ann(age_now,0)/ res_dx_ann(age_now,0); 6.1.1.1.1.16 bonus_index if (t < commence_period_w || t > maturity_period_ann) return NO_AVG; if (annuity_pmt_curr_tot == 0) return NO AVG; if (t == commence_period_w+1 || (eq(life->paid_up, "G")&& t <= 1))</pre> return 1.0; if (mgt_fee_fixed_temp == 0.0 && mgt_fee_variable == 0.0 && mgt_fee_fixed_max == 0.0) return 1.0; int proj yr = xint(life->proj year(t)); if(eq(life->projection type int, "Rollup")) proj yr = xint(life->proj year rollup(t)); proj_yr= max(proj_yr, 0); double mgt_fixed = 0.0; double bonus_period = 0.0; double temp_inv_rate = 0.0; double temp_ann_inv_rate = 0.0; if (life->margin_add_asset == "Y" && t == 1 && life->par_nonpar == "P"){ temp_inv_rate = life->asset_shock; temp_ann_inv_rate = life->asset_shock; } else{ temp_inv_rate = life->inv_rate_mth_t[proj_yr]; temp ann inv rate = life->ann inv rate mth t[proj yr]; } if(mgt_fixed_max_mth != 0.0 && eq(life->ben_class,"profil")){ if (temp_inv_rate <= rate_tarif_mth)</pre> mgt_fixed = 0.0; else mgt_fixed = min(temp_inv_rate - rate_tarif_mth, mgt_fixed_max_mth); if ((life->inv_rate_mth_t[max(xint(life->proj_year(t-13)), 0)] - rate_tarif_mth)< mgt_fixed_max_mth && life->inv_rate_mth_t[max(xint(life->proj_year(t-13)), 0)] > rate_tarif_mth) mgt_fixed = min(mgt_fixed_max_mth, mgt_fixed + life->inv_rate_mth_t[max(xint(life-

>proj_year(t-13)), 0)] - rate_tarif_mth - mgt_fixed_max_mth);

```
}
else
       mgt_fixed = mgt_fixed_mth;
bonus_period = (((1+ temp_ann_inv_rate)
                              *(1-mgt_fixed) -1)
                              *(1-mgt_fee_variable/100.) - rate_tarif_mth) + 1;
if(eq(life->paid_up, "G")){
       bonus_period = (((1+ temp_ann_inv_rate)
                              *(1-mgt_fixed) -1)
                             *(1-mgt_fee_variable/100.)+1)/(1+ rate_tarif_mth);
return bonus_index(t-1) * bonus_period;
6.1.1.1.1.17
                 res_basic_dth
if (t < commence_period_w || t > maturity_period_ann)
       return NO AVG;
if (annuity_pmt_curr_tot == 0)
       return NO AVG;
double reserve_temp = 0.0;
double interpol = life->pol_month(t)/12.;
double reserve_fact = 0.0;
double ax_down = assurance_fac_1(t);
double ax_up = 0.0;
if(t+12 <= maturity_period_ann)</pre>
       ax_up = assurance_fac_1(t+12);
reserve_fact = ax_down*(1.-interpol) + ax_up * interpol;
if (t == maturity_period_w)
       return reserve_fact*death_ben_curr*(1.+exp_res/100.)*surv_1(t);
return reserve_fact*death_ben_curr*(1.+exp_res/100.)*surv_1(t) * bonus_index_dth(t);
6.1.1.1.1.18
                 res_basic_gt
if (t < commence_period_w || t > maturity_period_ann)
       return 0.0;
if (annuity_pmt_curr_tot == 0)
       return 0.0;
double reserve temp = 0.0;
double interpol = life->pol month(t)/12.;
double reserve_fact = 0.0;
double ax_down = ann_defer_fac(t);
double ax_up = 0.0;
if(t+12 <= maturity_period_ann)</pre>
       ax_up = ann_defer_fac(t+12);
reserve_fact = ax_down*(1.-interpol) + ax_up * interpol;
```

```
if (t == maturity_period_w)
       return (reserve_fact*surv_1(t)+ ann_certain_fac(t+1))*(1.+exp_res/100.)*ann_pmt_curr_gteed;
return (reserve_fact*surv_1(t)+ ann_certain_fac(t+1))*(1.+exp_res/100.)*ann_pmt_curr_gteed *
bonus_index_gteed(t);
6.1.1.1.1.19
                 res_basic_gt_su
if (t < commence_period_w || t > maturity_period_ann)
   return 0.0;
if(surv_gteed(t)<1.)</pre>
   return 0.0;
return res_basic_gt(t);
6.1.1.1.1.20
                 res_basic_jl
if (t < commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (eq(joint_life_status, "Single") || annuity_pmt_curr_tot == 0)
       return NO AVG;
double res_1 = res_payment_pv_1(t+1);
if (surv_1_res(t+1) > 0)
       res_1 = res_1 * surv_1(t+1) / surv_1_res(t+1);
double res_2 = res_payment_pv_2(t+1);
if (surv 2 joint life res(t+1) > 0)
       res_2 = res_2 * surv_2_joint_life(t+1) / surv_2_joint_life_res(t+1);
if (t == maturity_period_w)
       return (res_1 + res_2)
                      *(1.+exp_res/100.);
return (res_1 * bonus_index_jl_1(t) + res_2 * bonus_index_jl_2(t))
              *(1.+exp_res/100.);
6.1.1.1.1.21
                 res_basic_jl_2
if (t < commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (eq(joint_life_status, "Single") || ann_pmt_curr_jl == 0)
       return NO AVG;
double res_2 = res_payment_pv_2(t+1);
if (surv_2_joint_life_res(t+1) > 0)
       res_2 = res_2 * surv_2_joint_life(t+1) / surv_2_joint_life_res(t+1);
if (t == maturity period w)
       return res_2 * (1.+exp_res/100.);
return (res_2)
```

```
*(1.+exp_res/100.) * bonus_index_jl_2(t);
6.1.1.1.1.22
                 res_basic_nogt
if (t < commence_period_w || t > maturity_period_ann)
       return NO AVG;
if (annuity_pmt_curr_tot == 0)
       return NO_AVG;
double reserve_temp = 0.0;
double interpol = life->pol_month(t)/12.;
if (t==commence_period_w)
       interpol=1.0;
double reserve_fact = 0.0;
double ax_down = annuity_fac_1(t);
double ax_up = 0.0;
if(t+12 <= maturity_period_ann)</pre>
       ax_up = annuity_fac_1(t+12);
reserve_fact = ax_down*(1.-interpol) + ax_up * interpol;
if (t == maturity_period_w)
       return reserve_fact*(1.+exp_res/100.)*ann_pmt_curr*surv_1(t);
return reserve_fact*(1.+exp_res/100.)*ann_pmt_curr*surv_1(t) * bonus_index_no_gtee(t);
6.1.1.1.1.23
                 reserve_basic
if (t < commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (annuity_pmt_curr_tot == 0)
       return NO_AVG;
return (res_basic_nogt(t)
              + res_basic_gt(t)
              + res_basic_jl(t)
              + res_basic_dth(t))*antisel_weight_res;
6.1.1.1.1.24
                 bonus_index_dth
if (t < commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (death_ben == "N")
       return NO_AVG;
if (t == commence_period_w+1 || (eq(life->paid_up, "G")&& t <= 1))</pre>
       return 1.0;
if(fund type == "N")
       return 1.0;
if (res_basic_dth(t-1) == 0.)
       return bonus_index_dth(t-1);
```

```
double bonus_period = 0.0;
bonus_period = int_cred_dth(t)
                              - mgt_fee_fixed_dth(t)
                             - mgt_fee_var_dth(t)
                              - tarif_deduction_dth(t);
bonus_period = bonus_period / res_basic_dth(t-1);
return bonus_index_dth(t-1)
              * (1+bonus_period);
6.1.1.1.25
                 bonus_index_gteed
if (t < commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (ann_pmt_curr_gteed == 0)
       return NO AVG;
if (t == commence_period_w+1 || (eq(life->paid_up, "G")&& t <= 1))</pre>
       return 1.0;
if(fund_type == "N")
       return 1.0;
if (res_basic_gt(t-1) == 0.)
       return bonus_index_gteed(t-1);
double bonus_period = 0.0;
bonus_period = int_cred_gteed(t)
                              - mgt_fee_fixed_gtd(t)
                              - mgt_fee_var_gtd(t)
                              - tarif_deduction_gteed(t);
bonus_period = bonus_period / res_basic_gt(t-1);
return bonus index gteed(t-1)
               * (1+bonus_period);
6.1.1.1.1.26
                 bonus_index_jl_1
if (t < commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (ann_pmt_curr_jl == 0)
       return NO AVG;
if (t == commence_period_w+1 || (eq(life->paid_up, "G")&& t <= 1))</pre>
return 1.0;
if(fund_type == "N")
       return 1.0;
if (res_basic_jl_1(t-1) == 0.)
       return bonus_index_jl_1(t-1);
```

```
double bonus_period = 0.0;
bonus_period = int_cred_jl1(t)
                              - mgt_fee_fixed_jl1(t)
                             - mgt_fee_var_jl1(t)
                              tarif_deduction_jl1(t);
bonus_period = bonus_period / res_basic_jl_1(t-1);
return bonus_index_jl_1(t-1)
              * (1+bonus_period);
6.1.1.1.27
                 bonus_index_jl_2
if (t < commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (ann_pmt_curr_jl == 0)
       return NO_AVG;
if (t == commence_period_w+1 || (eq(life->paid_up, "G")&& t <= 1))</pre>
return 1.0;
if(fund_type == "N")
       return 1.0;
if (res_basic_jl_2(t-1) == 0.)
       return bonus_index_jl_1(t-1);
double bonus_period = 0.0;
bonus_period = int_cred_jl2(t)
                              - mgt_fee_fixed_jl2(t)
                             - mgt_fee_var_jl2(t)
                              - tarif_deduction_jl2(t);
bonus_period = bonus_period / res_basic_jl_2(t-1);
return bonus index jl 2(t-1)
               * (1+bonus_period);
6.1.1.1.1.28
                 bonus_index_no_gtee
if (t < commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (ann pmt curr == 0)
       return NO AVG;
if (t == commence_period_w+1 || (eq(life->paid_up, "G")&& t <= 1))</pre>
return 1.0;
if(fund_type == "N")
       return 1.0;
if (res_basic_nogt(t-1) == 0.)
       return bonus_index_no_gtee(t-1);
```

```
double bonus_period = 0.0;
bonus_period = int_cred_no_gteed(t)
                             - mgt_fee_fixed_nogt(t)
                             - mgt_fee_var_nogt(t)
                              tarif_deduction_no_gteed(t);
bonus_period = bonus_period / res_basic_nogt(t-1);
return bonus_index_no_gtee(t-1)
              * (1+bonus_period);
6.1.1.1.1.29
                 bor_acc_dth
if (t< commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (death_ben == "N")
       return NO_AVG;
if(fund_type == "N" || mgt_fee_var == 0.0)
       return 0.0;
return bor_acc_notg(t); //At present there can only be death benefit on non-guaranteed single life
6.1.1.1.30
                 bor_acc_gtd
if (t< commence period w || t > maturity period ann)
       return NO AVG;
if(fund type == "N" || mgt fee var == 0.0 || ann pmt curr gteed == 0.)
       return 0.0;
if (t == commence_period_w || (eq(life->paid_up, "G")&& t <= 0)){</pre>
       if (init_bor_har< 0){</pre>
               if(eq(life->paid_up, "G"))
                             return (-1)* init_bor_har;
               return init_bor_har
                              * (-1)//Bor is managed as positive number
                             * gtee_ppn_temp/100.;
       }
       return 0.0;
}
if (har_accum_gtd(t) > 0.)
       return 0.0;
double bor = bor_acc_gtd(t-1);
if (t > commence_period_w+1)
       bor = bor
```

6.1.1.1.31 bor_acc_jl1

```
if (t< commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if(fund_type == "N" || mgt_fee_var == 0.0 || ann_pmt_curr_jl == 0.)
       return 0.0;
if (t == commence_period_w || (eq(life->paid_up, "G")&& t <= 0)){</pre>
       if (init_bor_har< 0){</pre>
               if(eq(life->paid up, "G"))
                              return (-1)* init_bor_har;
               return init_bor_har
                              * (-1)//Bor is managed as positive number
                              * joint_life_ppn_temp/100.;
       }
       return 0.0;
}
if (har_acc_jl1(t) > 0.)
       return 0.0;
double bor = bor_acc_jl1(t-1);
if (t > commence period w+1)
```

```
bor = bor
                      * surv_per_1(t-1);
if (net_interest_rate(t)< 0){</pre>
       double new_bor = - mgt_fee_variable/100.
               * (int_cred_jl1(t) - mgt_fee_fixed_jl1(t));
       if (har_return_jl1(t) > 0)
              new_bor = max(new_bor - har_return_jl1(t), 0);
       bor = bor
              + new_bor;//Addition to bor
}
if (net_interest_rate(t) > 0.0)
       bor = bor + bor_return_jl1(t);//Bor returned
return max(bor, 0.0);//Shouldn't really be possible for bor to be negative, but just in case
6.1.1.1.32
                 bor_acc_jl2
```

```
if (t<= commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if(fund_type == "N" || mgt_fee_var == 0.0 || ann_pmt_curr_jl == 0. || (eq(life->paid_up, "G")&& t <=
0) || (har_acc_jl2(t)+har_acc_jl1(t)) > 0.)
       return 0.0;
double bor = bor_acc_jl2(t-1);
if (t > commence_period_w+1)
               bor = bor
                              * (1. - death rate 2 b3(t-1));
bor = bor
               + bor_acc_jl1(t-1)
               * surv_2(t-1)
               * death_rate_1(t-1);
if (net_interest_rate(t)< 0){</pre>
       double new_bor = - mgt_fee_variable/100.
                                             * (int_cred_jl2(t) - mgt_fee_fixed_jl2(t));
       if(har_return_jl2(t) > 0)
               new_bor = max(new_bor - har_return_jl2(t), 0);
       bor = bor + new_bor;//Addition to bor
```

6.1.1.1.33 bor_acc_notg

```
if (t< commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if(fund_type == "N" || mgt_fee_var == 0.0 || ann_pmt_curr == 0.)
if (t == commence_period_w || (eq(life->paid_up, "G")&& t <= 0)){</pre>
       if (init_bor_har< 0){</pre>
               if(eq(life->paid_up, "G"))
                      return (-1)* init_bor_har;
               return init_bor_har
                              * (-1)//Bor is managed as positive number
                              * no_gtee_ppn_temp/100.;
               }
       return 0.0;
}
if (har_acc_nogt(t) > 0.)
       return 0.0;
double bor = bor_acc_notg(t-1);
if (t > commence_period_w+1)
       bor = bor
                      * surv_per_1(t-1); //No decrement at initial period
if (net_interest_rate(t)< 0){</pre>
       double new_bor = - mgt_fee_variable/100.
                                      * (int_cred_no_gteed(t) - mgt_fee_fixed_nogt(t));
       if((har_return_nogt(t) + har_return_dth(t)) > 0)
               new_bor = max(new_bor- har_return_nogt(t) - har_return_dth(t), 0);
       bor = bor
```

```
+ new_bor;//Addition to bor
}
if (net_interest_rate(t) > 0.0)
       bor = bor + bor_return_nogt(t) + bor_return_dth(t);//Bor returned (including part for death)
return max(bor, 0.0);//Shouldn't really be possible for bor to be negative, but just in case
6.1.1.1.34
                 bor_return_dth
if (t <= commence_period_w || t > maturity_period_ann)
       return NO AVG;
if (net_interest_rate(t) < 0.0 || bor_acc_dth(t-1) == 0 || death_ben == "N")</pre>
       return 0.0;
double mgt_fee_pos = -mgt_var_no_bor_dth(t); //Management fees available for return
//mgt_fee_pos = mgt_fee_variable/100.
              * (int_cred_dth(t) - mgt_fee_fixed_dth(t))
//
              * (-1.);
//
if (t == commence_period_w + 1)
       return max(mgt_fee_pos,
                             bor_acc_dth(t-1)
                             * (-1));
return max(mgt_fee_pos,
              bor_acc_dth(t-1)
               * surv_per_1(t-1) - bor_return_nogt(t));//Cannot return more than outstanding bor,
less returned on nogt
6.1.1.1.35
                 bor_return_gtd
if (t <= commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (net_interest_rate(t) < 0.0 || bor_acc_gtd(t-1) == 0 || ann_pmt_curr_gteed == 0)</pre>
       return 0.0;
double mgt_fee_pos = 0.0; //Management fees available for return
mgt_fee_pos = -mgt_var_no_bor_gtd(t);
if (t == commence_period_w + 1)
       return max(mgt_fee_pos,
                             bor_acc_gtd(t-1)
                             * (-1));
return max(mgt_fee_pos,
```

```
bor_acc_gtd(t-1)
                                             * (-1)
                                             * surv_per_gteed(t-1));//Cannot return more than outstanding bor
6.1.1.1.1.36
                                                    bor_return_jl1
if (t <= commence_period_w || t > maturity_period_ann)
                       return NO_AVG;
if (net_interest_rate(t) < 0.0 || bor_acc_jl1(t-1) == 0 || ann_pmt_curr_jl == 0)
                      return 0.0;
double mgt_fee_pos = -mgt_var_no_bor_jl1(t); //Management fees available for return
//mgt_fee_pos = mgt_fee_variable/100.
                                             * (int_cred_jl1(t) - mgt_fee_fixed_jl1(t))
//
                                            * (-1.);
//
if (t == commence period w + 1)
                       return max(mgt_fee_pos,
                                                                                                               bor_acc_jl1(t-1)
                                                                                                               * (-1));
return max(mgt_fee_pos,
                                                                  bor_acc_jl1(t-1)
                                                                   * (-1)
                                                                   * surv_per_1(t-1));//Cannot return more than outstanding bor
6.1.1.1.37
                                                    bor_return_jl2
if (t <= commence period w || t > maturity period ann)
                       return NO_AVG;
if (\text{net\_interest\_rate(t)} < 0.0 \mid | (\text{bor\_acc\_jl2(t-1)} + \text{bor\_acc\_jl1(t-1)}) == 0 \mid | \text{ann\_pmt\_curr\_jl} ==
0)
                      return 0.0;
double mgt_fee_pos = -mgt_var_no_bor_jl2(t); //Management fees available for return
//mgt_fee_pos = mgt_fee_variable/100.
//
                                            * (int_cred_jl2(t) - mgt_fee_fixed_jl2(t))
//
                                            * (-1.);
return max(mgt_fee_pos,
                                            bor_acc_jl2(t-1)
                                             * (-1)
                                             * (1. - death_rate_2_b3(t-1))
                                             + bor_acc_jl1(t-1)
                                             * (-1)
                                             * surv_2(t-1)
                                             * death_rate_1(t-1)
                                             );//Cannot return more than outstanding bor
                                            //This is wrong...
6.1.1.1.1.38
                                                    bor_return_nogt
if (t <= commence period w || t > maturity period ann)
                       return NO AVG;
```

```
if (net_interest_rate(t) < 0.0 || bor_acc_notg(t-1) == 0 || ann_pmt_curr == 0)</pre>
       return 0.0;
double mgt_fee_pos = 0.0; //Management fees available for return
mgt_fee_pos = -mgt_var_no_bor_nogt(t);
if (t == commence_period_w + 1)
       return max(mgt_fee_pos,
                      bor_acc_notg(t-1)
                      * (-1));
return max(mgt_fee_pos,
              bor_acc_notg(t-1)
              * (-1)
              * surv_per_1(t-1));//Cannot return more than outstanding bor
6.1.1.1.1.39
                 cashflow_pv
if (t < commence_period_w || t > maturity_period_ann)
     return 0.0;
if (annuity_pmt_curr_tot == 0)
     return 0.0;
int proj_yr = xint(life->proj_year(t+1));
if(eq(life->projection_type_int, "Rollup"))
       proj_yr = xint(life->proj_year_rollup(t+1));
if (t >= maturity_period_w)
       return cashflow_pv(t+1) * life->ann_v_month_t[proj_yr]
                      + cashflow_b_post_ret(t+1);
return 0.0;
6.1.1.1.1.40
                 cashflow pv chetz
if (t < commence_period_w || t > maturity_period_ann || life->free_inv_prop_t[1] >= 1.)
     return 0.0;
if (annuity_pmt_curr_tot == 0)
     return 0.0;
int proj yr = xint(life->proj year(t+1));
if(eq(life->projection_type_int, "Rollup"))
       proj_yr = xint(life->proj_year_rollup(t+1));
if (t >= maturity_period_w)
       return cashflow_pv_ifrs(t)*(1.-life->max_chetz) + cashflow_pv_res(t)*(life->max_chetz) ;
return 0.0;
```

```
6.1.1.1.1.41
                 cashflow_pv_e
if (t < commence_period_w || t > maturity_period_ann)
     return 0.0;
if (annuity_pmt_curr_tot == 0)
     return 0.0;
int proj_yr = xint(life->proj_year(t+1));
if(eq(life->projection_type_int, "Rollup"))
       proj_yr = xint(life->proj_year_rollup(t+1));
if (t >= maturity_period_w)
       return (cashflow_pv_e(t+1)+ cashflow_b_post_ret(t+1)) * life->ann_v_month_t[proj_yr]
return 0.0;
6.1.1.1.1.42
                 cashflow pv ifrs
if (t < commence_period_w || t > maturity_period_ann || life->free_inv_prop_t[1] >= 1.)
     return 0.0;
if (annuity_pmt_curr_tot == 0)
     return 0.0;
int proj yr = xint(life->proj year(t+1));
if(eq(life->projection type int, "Rollup"))
       proj_yr = xint(life->proj_year_rollup(t+1));
if (t >= maturity_period_w)
       return cashflow_pv_ifrs(t+1) * life->ann_v_month_t_ifrs[proj_yr]
                      + cashflow_b_post_ret(t+1);
return 0.0;
6.1.1.1.1.43
                 cashflow_pv_res
if (t < commence_period_w || t > maturity_period_ann || life->free_inv_prop_t[1] >= 1.)
     return 0.0;
if (annuity_pmt_curr_tot == 0)
     return 0.0;
int proj_yr = xint(life->proj_year(t+1));
if(eq(life->projection_type_int, "Rollup"))
       proj_yr = xint(life->proj_year_rollup(t+1));
if (t >= maturity_period_w)
       return cashflow_pv_res(t+1) * life->v_month_t_int_res
                      + cashflow_b_post_ret(t+1);
return 0.0;
```

```
6.1.1.1.1.44
                 har_acc_dth
if (t< commence_period_w || t > maturity_period_ann)
       return NO AVG;
if(fund_type == "N" || mgt_fee_var == 0. || death_ben == "N")
       return 0.0;
return har_acc_nogt(t);
6.1.1.1.1.45
                 har_acc_jl1
if (t< commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if(fund_type == "N" || mgt_fee_var == 0. || ann_pmt_curr_jl == 0.)
       return 0.0;
if (t == commence_period_w || (eq(life->paid_up, "G")&& t <= 0)){</pre>
       if(life->cal_month(t) == 12. || init_bor_har < 0)//If year-end, no accumulation. If there is
bor, no accumulation
               return 0.0;
       if(eq(life->paid_up,"G"))
               return init_bor_har;
       return init_bor_har
                      * joint_life_ppn_temp/100.;
}
double har = 0.0;
if(life->cal_month(t) > 1){
       har = har_acc_jl1(t-1);
       if (t > commence_period_w + 1)
                      har = har
                                     * surv per 1(t-1);
}
har = har + mgt_fee_var_jl1(t);//management fees paid this month
har = har - har_return_jl1(t); //Deduct management fees returned
return max(har, 0.0);
6.1.1.1.1.46
                 har_acc_jl2
if (t< commence_period_w || t > maturity_period_ann)
       return NO AVG;
if(fund_type == "N" || mgt_fee_var == 0. || ann_pmt_curr_jl == 0.)
       return 0.0;
```

```
if (t == commence_period_w || (eq(life->paid_up, "G")&& t <= 0)){</pre>
       if(life->cal_month(t) == 12. || init_bor_har < 0)//If year-end, no accumulation. If there is
bor, no accumulation
               return 0.0;
       //return initial_management_fee_owing_paid_to_ann
                     * joint_life_ppn_temp/100.;
       return 0.0; // assume no initial bor/har
       //Note: this does not account for annuities in payment where the main life has already died
- this is not accounted for elsewhere either
}
double har = 0.0;
if(life->cal_month(t) > 1){
       har = har_acc_jl2(t-1)
                      * (1. - death_rate_2_b3(t-1)); //Only being paid on widowed lives anyway
//Add har passed from first life
       har = har + har acc jl1(t-1)
                      * death_rate_1(t-1)
                      * surv 2(t-1);
}
har = har + mgt_fee_var_jl2(t);//management fees paid this month
har = har - har_return_jl2(t); //Deduct management fees returned
return max(har, 0.0);
6.1.1.1.1.47
                 har acc nogt
if (t< commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if(fund_type == "N" || mgt_fee_var == 0. || ann_pmt_curr == 0.)
       return 0.0;
if (t == commence_period_w || (eq(life->paid_up, "G")&& t <= 0)){</pre>
       if(life->cal month(t) == 12. || init bor har < 0)//If year-end, no accumulation. If there is
bor, no accumulation
               return 0.0;
       if(eq(life->paid up, "G"))
               return init_bor_har;
       return init_bor_har
                      * no_gtee_ppn_temp/100.;
}
double har = 0.0;
```

```
if(life->cal_month(t) > 1){
       har = har_acc_nogt(t-1);
       if (t > commence_period_w + 1)
                      har = har
                                     * surv_per_1(t-1);
}
har = har + mgt_fee_var_nogt(t);//management fees paid this month
har = har - har_return_nogt(t) - har_return_dth(t); //Deduct management fees returned (for death as
well)
return max(har, 0.0);
6.1.1.1.1.48
                 har_accum_gtd
if (t< commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if(fund_type == "N" || mgt_fee_var == 0. || ann_pmt_curr_gteed == 0.)
       return 0.0;
if (t == commence_period_w || (eq(life->paid_up, "G")&& t <= 0)){</pre>
       if(life->cal_month(t) == 12. || init_bor_har < 0)//If year-end, no accumulation. If there is
bor, no accumulation
              return 0.0;
       if(eq(life->paid_up, "G"))
               return init_bor_har;
       return init_bor_har
                      * gtee_ppn_temp/100.;
}
double har = 0.0;
if(life->cal_month(t) > 1){
       har = har_accum_gtd(t-1);
       if (t > commence_period_w + 1)
               har = har
                             * surv_per_gteed(t-1);
}
har = har + mgt_fee_var_gtd(t);//management fees paid this month
har = har - har_return_gtd(t); //Deduct management fees returned
```

return max(har, 0.0);

```
6.1.1.1.1.49
                 har_return_dth
if (t< commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if(fund_type == "N" || mgt_fee_var == 0.0 || death_ben == "N")
       return 0.0;
if(har_acc_dth(t-1) == 0.0)
       return 0; //Nothing collected to return
if(net_interest_rate(t) > 0.0)
       return 0.0; //No need to return if interest is positive
if (life->cal_month(t) == 1)
       return 0.0; //Do not carry over to new year
double har_ret = mgt_fee_variable/100.
              * (int_cred_dth(t) - mgt_fee_fixed_dth(t)) * (-1.);
return min(har_ret,
                      har_acc_dth(t-1) * surv_per_1(t-1) + har_return_nogt(t));
                 har_return_gtd
6.1.1.1.1.50
if (t< commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if(fund_type == "N" || mgt_fee_var == 0.0 || ann_pmt_curr_gteed == 0.)
       return 0.0;
if(har_accum_gtd(t-1) == 0.0)
       return 0; //Nothing collected to return
if(net_interest_rate(t) > 0.0)
       return 0.0; //No need to return if interest is positive
if (life->cal_month(t) == 1)
       return 0.0; //Do not carry over to new year
double har ret = mgt fee variable/100.
              * (int_cred_gteed(t) - mgt_fee_fixed_gtd(t)) * (-1.);
return min(har_ret,
                      har_accum_gtd(t-1) * surv_per_gteed(t-1));
6.1.1.1.1.51
                 har_return_jl1
if (t< commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if(fund_type == "N" || mgt_fee_var == 0.0 || ann_pmt_curr_jl == 0.)
```

```
return 0.0;
if(har_acc_jl1(t-1) == 0.0)
       return 0; //Nothing collected to return
if(net_interest_rate(t) > 0.0)
       return 0.0; //No need to return if interest is positive
if (life->cal_month(t) == 1)
       return 0.0; //Do not carry over to new year
double har_ret = mgt_fee_variable/100.
              * (int_cred_jl1(t) - mgt_fee_fixed_jl1(t)) * (-1.);
return min(har_ret,
                      har_acc_jl1(t-1) * surv_per_1(t-1));
6.1.1.1.1.52
                 har_return_jl2
if (t< commence_period_w || t > maturity_period_ann)
       return NO AVG;
if(fund_type == "N" || mgt_fee_var == 0.0 || ann_pmt_curr_jl == 0.)
       return 0.0;
if((har_acc_jl2(t-1) + har_acc_jl1(t-1)) == 0.0)
       return 0; //Nothing collected to return
if(net_interest_rate(t) > 0.0)
       return 0.0; //No need to return if interest is positive
if (life->cal_month(t) == 1)
       return 0.0; //Do not carry over to new year \,
double har_ret = mgt_fee_variable/100.
              * (int_cred_jl2(t) - mgt_fee_fixed_jl2(t)) * (-1.);
return min(har ret,
                      har_acc_jl2(t-1)
                      * (1. - death_rate_2_b3(t-1))
                      + har_acc_jl1(t-1) // Add mgt fees owing from first life
                      * surv_2(t-1)
                      * death_rate_1(t-1)
                      );
6.1.1.1.53
                 har_return_nogt
if (t< commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if(fund_type == "N" || mgt_fee_var == 0.0 || ann_pmt_curr == 0.)
       return 0.0;
if(har_acc_nogt(t-1) == 0.0)
       return 0; //Nothing collected to return
```

```
if(net_interest_rate(t) > 0.0)
       return 0.0; //No need to return if interest is positive
if (life->cal_month(t) == 1)
       return 0.0; //Do not carry over to new year
double har_ret = mgt_fee_variable/100.
              * (int_cred_no_gteed(t) - mgt_fee_fixed_nogt(t)) * (-1.);
return min(har_ret,
                     har_acc_nogt(t-1) * surv_per_1(t-1));
6.1.1.1.1.54
                 mgt_var_no_bor_dth
if (t< commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if(fund_type == "N" || death_ben == "N")
       return 0.0;
if (net_interest_rate(t) > 0.0)
       return mgt_fee_variable/100.
              * (int_cred_dth(t) - mgt_fee_fixed_dth(t));
return 0.0;
6.1.1.1.55
                 mgt_var_no_bor_gtd
if (t< commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if(fund_type == "N" || ann_pmt_curr_gteed == 0.)
       return 0.0;
if (net_interest_rate(t) > 0.0)
       return mgt_fee_variable/100.
              * (int_cred_gteed(t) - mgt_fee_fixed_gtd(t));
return 0.0;
6.1.1.1.56
                 mgt_var_no_bor_jl1
if (t< commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if(fund_type == "N" || ann_pmt_curr_jl == 0.)
       return 0.0;
if (net_interest_rate(t) > 0.0)
       return mgt_fee_variable/100.
              * (int_cred_jl1(t) - mgt_fee_fixed_jl1(t));
```

-1;

return 0.0; 6.1.1.1.57 mgt_var_no_bor_jl2 if (t< commence_period_w || t > maturity_period_ann) return NO AVG; if(fund_type == "N" || ann_pmt_curr_jl == 0.) return 0.0; if (net_interest_rate(t) > 0.0) return mgt_fee_variable/100. * (int_cred_jl2(t) - mgt_fee_fixed_jl2(t)); return 0.0; 6.1.1.1.1.58 mgt var no bor nogt if (t< commence_period_w || t > maturity_period_ann) return NO AVG; if(fund_type == "N" || mgt_fee_var == 0.0 || ann_pmt_curr == 0.) return 0.0; if (net_interest_rate(t) > 0.0) return mgt fee variable/100. * (int cred no gteed(t) - mgt fee fixed nogt(t)); return 0.0; 6.1.1.1.59 net_interest_rate if (t< commence period w | | t > maturity period ann) return NO AVG; if (annuity_pmt_curr_tot == 0.) return NO AVG; int proj_yr = xint(life->proj_year(t)); if(eq(life->projection_type_int, "Rollup")) proj_yr = xint(life->proj_year_rollup(t)); proj_yr= max(proj_yr, 0); double temp_ann_inv_rate = life->ann_inv_rate_mth_t[proj_yr]; if (life->margin_add_asset == "Y" && t == 1 && life->par_nonpar == "P" && !eq(life->submodel, "ANN")) temp_ann_inv_rate = life->asset_shock; if (life->margin_add_asset == "Y" && t == 2 && life->par_nonpar == "P" && eq(life->submodel, "ANN")) temp_ann_inv_rate = life->asset_shock; return (1 + temp_ann_inv_rate) * (1-mgt_fixed_mth)

```
6.1.1.1.1.60
                 mgt_fee_fixed_pv
if (t < commence_period_w || t > maturity_period_ann)
     return 0.0;
if (annuity_pmt_curr_tot == 0)
     return 0.0;
int proj_yr = xint(life->proj_year(t+1));
if(eq(life->projection_type_int, "Rollup"))
       proj_yr = xint(life->proj_year_rollup(t+1));
if (t >= maturity_period_w)
       return (
                      mgt_fee_fixed_pv(t+1)
                      + mgt_fee_fixed_dth(t+1)
                      + mgt_fee_fixed_gtd(t+1)
                      + mgt_fee_fixed_jl1(t+1)
                      + mgt_fee_fixed_jl2(t+1)
                      + mgt_fee_fixed_nogt(t+1)
                      * life->ann_v_month_t[proj_yr];
return 0.0;
6.1.1.1.1.61
                 mgt_fee_var_pv
if (t < commence_period_w || t > maturity_period_ann)
     return 0.0;
if (annuity_pmt_curr_tot == 0)
     return 0.0;
int proj_yr = xint(life->proj_year(t+1));
if(eq(life->projection_type_int, "Rollup"))
       proj_yr = xint(life->proj_year_rollup(t+1));
if (t >= maturity_period_w)
       return (
                      mgt_fee_var_pv(t+1)
                      + mgt_fee_var_dth(t+1)
                      + mgt_fee_var_gtd(t+1)
                      + mgt_fee_var_jl1(t+1)
                      + mgt fee var jl2(t+1)
                      + mgt_fee_var_nogt(t+1)
                      * life->ann_v_month_t[proj_yr];
return 0.0;
6.1.1.1.1.62
                 investment income
if (t <= life->commence_period_w || t > maturity_period_ann)
       return 0.0;
if (annuity_pmt_curr_tot == 0)
       return 0.0;
int proj_yr = xint(life->proj_year(t));
```

```
if(eq(life->projection_type_int, "Rollup"))
       proj_yr = xint(life->proj_year_rollup(t));
double temp_inv_rate = 0.0;
double inv_inc_chetz = 0.0;
if (life->free_inv_prop_t[0] < 1.0) {</pre>
              temp_inv_rate = life->ann_inv_rate_rf_mth_t[proj_yr];
              inv_inc_chetz = investment_income_chetz(t); }
else temp_inv_rate = life->ann_inv_rate_mth_t[proj_yr];
if(t > maturity_period_w)
       return temp_inv_rate * (reserve_basic(t-1) + cashflow_b_post_ret(t)) + inv_inc_chetz;
return 0.;
6.1.1.1.1.63
                 investment_income_chetz
if (t <= life->commence_period_w || t > maturity_period_ann)
       return 0.0;
if (life->free_inv_prop_t[1] >= 1. || annuity_pmt_curr_tot == 0)
       return 0.0;
int proj_yr = xint(life->proj_year(t));
if(eq(life->projection_type_int, "Rollup"))
       proj_yr = xint(life->proj_year_rollup(t));
double temp_reserve=0;
int period=0;
double Cal_yr_mth=100*life->cal_year(t) +life->cal_month(t);
if (life->chetz_be_ind == "Y" && Cal_yr_mth>=life->chetz_be_ind_yrs){
       temp_reserve=-cashflow_pv_chetz(t-1);
       period=maturity_period_w+1;}
              else{
                      temp reserve=reserve basic(t-1) + cashflow b post ret(t);
                      period=maturity period w;}
if ( t > period)
       return (life->ann_inv_rate_mth_t[proj_yr] -life->ann_inv_rate_rf_mth_t[proj_yr])
               * (temp_reserve);
return 0.;
6.1.1.1.1.64
                 reserve_bonus_units_e_0
if (t > 1200)
       return NO_AVG;
return accum->units_e(0) * life->bonus[benefit_term]/100. *
ret_prop_array[ann_index_map[takeup_age]] * retirement_prop;
6.1.1.1.1.65
                 reserve_bonus_units_e_t
if (annuity pmt curr tot == 0)
```

```
return NO_AVG;
double units_e_noret = 0;
if(life->ret_prop_col(t+1) > SMALL_DOUBLE){
              units_e_noret = accum->units_e(t)/life->ret_prop_col(t+1) *
ret_prop_array[ann_index_map[takeup_age]] * retirement_prop;
return units_e_noret * life->bonus[benefit_term]/100;
6.1.1.1.1.66
                 investment income chetz pv
if (t < commence_period_w || t > maturity_period_ann)
       return 0.0;
if (life->free_inv_prop_t[1] >= 1. || annuity_pmt_curr_tot == 0)
       return 0.0;
int proj_yr = xint(life->proj_year(t+1));
if(eq(life->projection_type_int, "Rollup"))
       proj_yr = xint(life->proj_year_rollup(t+1));
if (t >= maturity_period_w)
       return (investment income chetz pv(t+1) + investment income chetz(t+1))* life-
>ann_v_month_t[proj_yr];
return 0.;
6.1.1.1.1.67
                 investment_income_pv
if (t < commence_period_w || t > maturity_period_ann)
       return 0.0;
if (annuity pmt curr tot == 0)
       return 0.0;
int proj_yr = xint(life->proj_year(t+1));
if(eq(life->projection_type_int, "Rollup"))
       proj_yr = xint(life->proj_year_rollup(t+1));
if (t >= maturity_period_w)
       return (investment_income_pv(t+1) + investment_income(t+1))* life->ann_v_month_t[proj_yr];
return 0.;
6.1.1.1.1.68
                 outgo_b_post_ret_pv
if (t < commence_period_w || t > maturity_period_ann)
     return 0.0;
if (annuity_pmt_curr_tot == 0)
     return 0.0;
int proj_yr = xint(life->proj_year(t+1));
if(eq(life->projection_type_int, "Rollup"))
       proj_yr = xint(life->proj_year_rollup(t+1));
if (t >= maturity_period_w)
```

```
return outgo_b_post_ret_pv(t+1) * life->ann_v_month_t[proj_yr]
                     + expense_ren_perc_post_ret(t+1) + pmt_total(t+1);
return 0.0;
6.1.1.1.1.69
                 expense_investment_pv
if (t < commence_period_w || t > maturity_period_ann)
     return 0.0;
if (annuity_pmt_curr_tot == 0)
     return 0.0;
int proj_yr = xint(life->proj_year(t+1));
if(eq(life->projection_type_int, "Rollup"))
       proj_yr = xint(life->proj_year_rollup(t+1));
if (t >= maturity_period_w)
       return expense_investment_pv(t+1) * life->ann_v_month_t[proj_yr]
                     + expense_investment_post_ret(t+1);
return 0.0;
6.1.1.1.70
                 expense_ren_perc_post_ret_pv
if (t < commence_period_w || t > maturity_period_ann)
     return 0.0;
if (annuity_pmt_curr_tot == 0)
     return 0.0;
int proj yr = xint(life->proj year(t+1));
if(eq(life->projection type int, "Rollup"))
       proj_yr = xint(life->proj_year_rollup(t+1));
if (t >= maturity_period_w)
       return expense_ren_perc_post_ret_pv(t+1) * life->ann_v_month_t[proj_yr]
                     + expense_ren_perc_post_ret(t+1);
return 0.0;
6.1.1.1.71
                 expense_investment_post_ret
if (t <= commence_period_w || t > maturity_period_ann)
       return 0;
if (annuity_pmt_curr_tot == 0)
       return 0;
double result = life->exp_ren_res / 1200
                             * reserve_basic(t)
                             * life->free_inv_prop_t[life->proj_year(t)]
                             * life->expense_inflation(t);
double margin = 0;
if(life->margin_add=="Y")
       margin = life->margin_exp_ren_pc;
return result * (1 + margin / 100);
```

```
6.1.1.1.72
                 expense_ren_perc_post_ret
if (t <= commence_period_w || t > maturity_period_ann)
       return 0.0;
if (annuity_pmt_curr_tot == 0)
       return 0.0;
double result = ( life->exp_ren_res / 1200 * reserve_basic(t) * life->free_inv_prop_t[life-
>proj_year(t)]
                             + life->exp_ren_perc_annuity/100 * pmt_total(t) )
                             * life->expense_inflation(t);
double margin = 0;
if(life->margin add=="Y")
       margin = life->margin_exp_ren_pc;
return result * (1 + margin / 100);
6.1.1.1.73
                 reserve increase
if (t <= commence_period_w || t > maturity_period_ann)
       return 0.0;
if (annuity_pmt_curr_tot == 0)
       return 0.0;
return reserve_basic(t) - reserve_basic(t-1);
6.1.1.1.74
                 sel_death_rate_1
if (t <= commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (annuity_pmt_curr_tot == 0)
    return NO_AVG;
//double sel death rate col=0;
double sel rate = 0.0;
double sel_death_rate_col_temp=0;
if (inlist(life->paid_up, "G"))
    sel_death_rate_col_temp=life->pol_year_ext(t);
else
    sel_death_rate_col_temp=age_pol_1(t) - takeup_age + 1;
sel_death_rate_col=sel_death_rate_col_temp;
sel_rate = sel_ret_qx_im_dth_1;
return sel_rate;
6.1.1.1.75
                 sel_death_rate_2
if (t <= commence_period_w || t > maturity_period_ann)
       return NO_AVG;
```

```
if (annuity_pmt_curr_tot == 0)
    return NO_AVG;
//double sel_death_rate_col=0;
double sel_rate = 0.0;
double sel_death_rate_col_temp=0;
if (inlist(life->paid_up, "G"))
    sel_death_rate_col_temp=life->pol_year_ext(t);
else
    sel_death_rate_col_temp=age_pol_1(t) - takeup_age + 1;
sel_death_rate_col=sel_death_rate_col_temp;
sel_rate = sel_ret_qx_im_dth_2;
return sel_rate;
6.1.1.1.76
                 profit_book_pv
if (t < commence_period_w || t > maturity_period_ann)
     return 0.0;
if (annuity_pmt_curr_tot == 0)
     return 0.0;
int proj_yr = xint(life->proj_year(t+1));
if(eq(life->projection_type_int, "Rollup"))
       proj_yr = xint(life->proj_year_rollup(t+1));
if (t > maturity_period_w)
       return (profit_book_pv(t+1)
                      +investment_income(t+1)
                      -reserve_increase(t+1))
                      * life->ann_v_month_t[proj_yr]
                      + cashflow_b_post_ret (t+1);
return 0.0;
6.1.1.1.77
                 profit_book_vif_post_ret
if (t <= commence_period_w || t > maturity_period_ann)
       return 0.0;
if (annuity_pmt_curr_tot == 0)
       return 0.0;
return cashflow_b_post_ret(t) + investment_income(t)
              - reserve_increase(t);
6.1.1.1.78
                 profit_net_vif_post_ret_pv
if (t < commence_period_w || t > maturity_period_ann)
    return 0.0;
if (annuity_pmt_curr_tot == 0)
    return 0.0;
```

```
if(t >= maturity_period_w){
       int proj_yr = xint(life->proj_year(t+1));
       if(eq(life->projection_type_int, "Rollup"))
               proj_yr = xint(life->proj_year_rollup(t+1));
       return (profit_book_vif_post_ret(t+1) *(1-life->tax_rate/ 100.)
        + profit_net_vif_post_ret_pv(t+1)) * life->ann_v_month_t[proj_yr];}
return 0.;
6.1.1.1.1.79
                 surv_gteed
if (t < commence_period_w || t > maturity_period_ann )
       return NO_AVG;
if(life->ann_maslul<=100 && eq(life->paid_up,"G"))
       return NO AVG;
double temp = surv_per_gteed(t);
// At valuation date
if (t == 0)
       return 1.0;
if (t > commence_period_w && fabs(surv_gteed(t-1)) < .0000001)</pre>
       // No surv in previous period
       return NO_AVG;
int temp_gteed_term = commence_period_w + gteed_term - 1;
if (eq(life->paid_up, "G")){
       temp_gteed_term = gteed_term-1;
}
if (t > commence_period_w && t <=(temp_gteed_term) )</pre>
       return 1.0;
return surv 1(t);
6.1.1.1.1.80
                 surv_jl_lastsurv
if (t < commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (!eq(joint life status, "Joint Life"))
       return NO AVG;
// At valuation date
if (t == commence_period_w)
       return 1.0;
if (t > commence_period_w && fabs(surv_jl_lastsurv(t-1)) < .0000001)</pre>
       // No surv in previous period
       return NO_AVG;
if (t > commence period w)
       return surv_1(t) + surv_2_joint_life(t);
```

```
return surv_jl_lastsurv(t+1);
6.1.1.1.1.81
                 surv_per_gteed
if (t < commence_period_w || t > maturity_period_ann )
       return NO_AVG;
if(life->ann_maslul<=100 && eq(life->paid_up,"G"))
       return NO_AVG;
// At valuation date
if (t == 0)
       return 1.0;
if (t > commence_period_w && fabs(surv_gteed(t-1)) < .0000001)</pre>
       // No surv in previous period
       return NO_AVG;
int temp_gteed_term = commence_period_w + gteed_term - 1;
if (eq(life->paid_up, "G")){
       temp gteed term = gteed term-1;
}
if (t > commence_period_w && t <=(temp_gteed_term) )</pre>
       return 1.0; //Still in guaranteed period
if (t == temp_gteed_term + 1)
       return surv_1(t); //For first period after end of guaranteed, take accumulated survival
proportion to that point
return surv_per_1(t);
6.1.1.1.1.82
                 death_rate_1
if (t <= commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (annuity_pmt_curr_tot == 0)
       return NO_AVG;
// Assume all lives die at omega age
if (age_pol_1(t) > life->omega_age_w)
       return 1.0;
double rate = 0.0;
if (sex1 == "M" )
       rate = death_rates_ann_m_1;
else
        rate = death rates ann f 1;
// Increase the mort rates back with 4% of SD
rate = rate /0.96*(1.-(qx_sd_comp + qx_sd_random)/100.)/1000. * sel_death_rate_1(t);
if (life-> margin_add=="Y")
       rate = rate * (1+life->margin_ann_mort_pc/100.);
if(rate > 1.)
       return 1.0;
```

```
return 1 - pow(1- rate , 1.0/12.0);
6.1.1.1.1.83
                 death_rate_res_1
if (t <= commence_period_w || t > maturity_period_ann )
       return NO_AVG;
if (annuity_pmt_curr_tot == 0)
       return NO_AVG;
// Assume all lives die at omega age
if (age_pol_1(t) > life->omega_age_w)
       return 1.0;
double rate = 0.0;
if (sex1 == "M" )
       rate = death_rates_ann_m_res_1;
else
       rate = death_rates_ann_f_res_1;
// Increase the mort rates back with 4% of SD
rate = rate /0.96*(1.-(qx_sd_comp_res + qx_sd_random_res)/100.)/1000.*mort_fac_res_ann/100. *
sel_death_rate_1(t);
if(rate > 1.)
       return 1.0;
return 1 - pow(1- rate , 1.0/12.0);
6.1.1.1.1.84
                 surv_1
if (t < commence period w || t > maturity period ann)
       return NO_AVG;
// At valuation date
if (t == commence_period_w || (eq(life->paid_up, "G")&& t<=0))</pre>
       return 1.0;
if (t > commence_period_w && fabs(surv_1(t-1)) < .0000001)</pre>
       // No surv in previous period
       return NO_AVG;
return surv_1(t-1) * surv_per_1(t);
6.1.1.1.1.85
                 surv_1_res
if (t < commence_period_w || t > maturity_period_ann)
       return NO_AVG;
// At valuation date
if (t == commence_period_w || (eq(life->paid_up, "G")&& t<=0))</pre>
       return 1.0;
if (t > commence_period_w && fabs(surv_1(t-1)) < .0000001)</pre>
       // No surv in previous period
       return NO AVG;
return surv_1_res(t-1) * (1-death_rate_res_1(t));
```

```
6.1.1.1.1.86
                 surv_per_1
// Assume decrements are
// distributed uniformly within
// period of the projection.
if (t <= commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (t > commence_period_w && fabs(surv_1(t-1)) < .0000001)</pre>
       return NO_AVG;
return 1. - death_rate_1(t);
6.1.1.1.1.87
                 death_rate_2
if (t <= commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (eq(joint_life_status, "Single") || annuity_pmt_curr_tot == 0)
       return NO_AVG;
// Assume all lives die at omega age
if (age_pol_2(t) > life->omega_age_w)
       return 1.0;
double rate = 0.0;
if (sex2 == "M" )
       rate = death_rates_ann_m_2;
else
        rate = death_rates_ann_f_2;
// Increase the mort rates back with 4% of SD
rate = rate /0.96*(1.- (qx_sd_comp + qx_sd_random)/100.)/1000. * sel_death_rate_2(t);
if (life-> margin_add=="Y")
       rate = rate * (1+life->margin_ann_mort_pc/100.);
if(rate > 1.)
       return 1.0;
return 1 - pow(1- rate , 1./12.);
                 death rate 2 b3
6.1.1.1.1.88
if (t <= commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (eq(joint_life_status, "Single") || annuity_pmt_curr_tot == 0)
       return NO_AVG;
// Assume all lives die at omega age
if (age_pol_2(t) > life->omega_age_w)
       return 1.0;
double rate = 0.0;
if (sex2 == "M" )
       rate = death_rates_ann_m_b3_2;
6156
        rate = death_rates_ann_f_b3_2;
```

```
// Increase the mort rates back with 4% of SD
rate = rate /0.96*(1.- (qx_sd_comp + qx_sd_random)/100.)/1000.;
if (life-> margin_add=="Y")
       rate = rate * (1+life->margin_ann_mort_pc/100.);
if(rate > 1.)
       return 1.0;
return 1 - pow(1- rate , 1./12.);
6.1.1.1.1.89
                 death rate res 2
if (t <= commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (eq(joint_life_status, "Single") || annuity_pmt_curr_tot == 0)
       return NO_AVG;
// Assume all lives die at omega age
if (age_pol_2(t) > life->omega_age_w)
       return 1.0;
double rate = 0.0;
if (sex2 == "M" )
       rate = death_rates_ann_m_res_2;
else
       rate = death_rates_ann_f_res_2;
// Increase the mort rates back with 4% of SD
rate = rate /0.96*(1.- (qx_sd_comp_res + qx_sd_random_res)/100.)/1000.*mort_fac_res_ann/100. *
sel_death_rate_2(t);
if(rate > 1.)
       return 1.0;
return 1 - pow(1- rate , 1./12.);
6.1.1.1.1.90
                 death rate res 2 b3
if (t <= commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (eq(joint_life_status, "Single") || annuity_pmt_curr_tot == 0)
       return NO_AVG;
// Assume all lives die at omega age
if (age_pol_2(t) > life->omega_age_w)
       return 1.0;
double rate = 0.0;
if (sex2 == "M" )
       rate = death_rates_ann_m_res_b3_2;
        rate = death_rates_ann_f_res_b3_2;
// Increase the mort rates back with 4% of SD
rate = rate /0.96*(1.- (qx_sd_comp_res + qx_sd_random_res)/100.)/1000.*mort_fac_res_ann/100.;
if(rate > 1.)
       return 1.0;
```

```
return 1 - pow(1- rate , 1./12.);
6.1.1.1.1.91
                 surv_2
if (t < commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (!eq(joint_life_status, "Joint Life"))
       return NO_AVG;
// At valuation date
if (t == commence_period_w || (eq(life->paid_up, "G")&& t<=0))</pre>
       return 1.0;
if (t > commence_period_w && fabs(surv_2(t-1)) < .0000001)
       // No surv in previous period
       return NO_AVG;
if (t > 0)
       return surv_2(t-1) * surv_per_2(t);
return 0.0; //Unconditional return
                 surv_2_joint_life
6.1.1.1.1.92
if (t < commence_period_w || t > maturity_period_ann)
       return NO AVG;
if (!eq(joint_life_status, "Joint Life"))
       return NO_AVG;
// At valuation date
if (t == commence_period_w || (eq(life->paid_up, "G")&& t<=0))</pre>
       return 0.0;
if (t > commence_period_w && fabs(surv_2(t-1)) < .0000001)</pre>
       // No surv in previous period
       return NO AVG;
if (t==1)
       return (1-surv_1(t))
                      * surv_2(t)
                      * life2_ppn_temp/100;
return surv 2 joint life(t-1)
               *(1- death_rate_2_b3(t-1))
               + surv_1(t-1) * surv_2(t)
               * death_rate_1(t-1)
               * life2_ppn_temp/100;
6.1.1.1.1.93
                 surv_2_joint_life_res
if (t < commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (!eq(joint_life_status, "Joint Life"))
       return NO_AVG;
```

```
// At valuation date
if (t == commence_period_w || (eq(life->paid_up, "G")&& t<=0))</pre>
       return 0.0;
if (t > commence_period_w && fabs(surv_2_res(t-1)) < .0000001)</pre>
       // No surv in previous period
       return NO AVG;
if (t==1)
       return (1-surv_1_res(t))
                      * surv_2_res(t)
                      * life2_ppn_temp/100;
return surv_2_joint_life_res(t-1)
               *(1- death rate res 2 b3(t-1))
               + surv_1_res(t-1) * surv_2_res(t)
               * death_rate_res_1(t-1)
               * life2_ppn_temp/100;
6.1.1.1.1.94
                 surv_2_res
if (t < commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (!eq(joint_life_status, "Joint Life"))
       return NO_AVG;
// At valuation date
if (t == commence_period_w || (eq(life->paid_up, "G")&& t<=0))</pre>
if (t > commence_period_w && fabs(surv_2(t-1)) < .0000001)</pre>
       // No surv in previous period
       return NO_AVG;
if (t > 0)
       return surv_2(t-1) * (1 - death_rate_res_2(t));
return 0.0; //Unconditional return
6.1.1.1.1.95
                 surv_per_2
// Assume decrements are
// distributed uniformly within
// period of the projection.
if (t <= commence_period_w || t > maturity_period_ann)
       return NO AVG;
if (eq(joint_life_status, "Single"))
       return NO_AVG;
if (t > commence_period_w && fabs(surv_2(t-1)) < .0000001)
       return NO_AVG;
return 1. - death_rate_2(t);
```

```
6.1.1.1.1.96
                 dth_ben_if_b
if (t <= commence_period_w || t > maturity_period_ann)
       return NO AVG;
if (death_ben == "N" || annuity_pmt_curr_tot == 0)
       return NO_AVG;
if (t > commence_period_w){
       if(t == 1 && life->paid_up == "G")
              return 0.;
       return double(death_ben_curr) * death_rate_1(t-1) * surv_1(t-2);
}
return 0.0;
6.1.1.1.1.97
                 dth_ben_if_b_final
if (t <= commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (annuity_pmt_curr_tot == 0)
       return NO_AVG;
         dth_ben_if_b(t) * bonus_index_dth(t) * antisel_weight;
return
6.1.1.1.1.98
                 pmt_total
if (t <= commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (annuity_pmt_curr_tot == 0)
       return NO_AVG;
if (t == maturity_period_w + 1 && dump_vars == "Y")
       log_strm<<"Antiselection proportion: "<<antisel_ppn<<endl;</pre>
return ann_pay_no_gteed_final(t)
               + ann_pay_gteed_if_final(t)
               + ann_pay_jl_if_1_final(t)
               + ann_pay_jl_if_2_final(t)
               + dth_ben_if_b_final(t);
6.1.1.1.1.99
                 pmt_total_nogt
if (t <= commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (annuity_pmt_curr_tot == 0)
       return NO_AVG;
double temp_gteed_pmt=0.;
if(surv_gteed(t)<1.)</pre>
       temp_gteed_pmt = ann_pay_gteed_if_final(t);
return ann_pay_no_gteed_final(t)
               + temp_gteed_pmt
              + ann_pay_jl_if_1_final(t)
               + ann_pay_jl_if_2_final(t)
               + dth_ben_if_b_final(t);
```

"ANN"))

return temp_ann_inv_rate

6.1.1.1.1.100 int cred dth if (t< commence_period_w || t > maturity_period_ann) return NO AVG; if (fund_type == "N" || death_ben == "N") return 0.0; int proj_yr = xint(life->proj_year(t)); if(eq(life->projection_type_int, "Rollup")) proj_yr = xint(life->proj_year_rollup(t)); proj_yr= max(proj_yr, 0); double temp_ann_inv_rate = life->ann_inv_rate_mth_t[proj_yr]; if (life->margin_add_asset == "Y" && t == 1 && life->par_nonpar == "P" && !eq(life->submodel, "ANN")) temp_ann_inv_rate = life->asset_shock; if (life->margin add asset == "Y" && t == 2 && life->par nonpar == "P" && eq(life->submodel, "ANN")) temp_ann_inv_rate = life->asset_shock; return temp ann inv rate * res_basic_dth(t-1); int_cred_gteed 6.1.1.1.1.101 if (t< commence_period_w || t > maturity_period_ann) return NO AVG; if (fund type == "N" || ann pmt curr gteed == 0.) return 0.0; int proj_yr = xint(life->proj_year(t)); if(eq(life->projection_type_int, "Rollup")) proj_yr = xint(life->proj_year_rollup(t)); proj_yr= max(proj_yr, 0); double temp_ann_inv_rate = life->ann_inv_rate_mth_t[proj_yr]; if (life->margin_add_asset == "Y" && t == 1 && life->par_nonpar == "P" && !eq(life->submodel, "ANN")) temp_ann_inv_rate = life->asset_shock;

if (life->margin_add_asset == "Y" && t == 2 && life->par_nonpar == "P" && eq(life->submodel,

temp_ann_inv_rate = life->asset_shock;

* res_basic_gt(t-1);

6.1.1.1.1.102 int cred jl1 if (t< commence_period_w || t > maturity_period_ann) return NO AVG; if (fund_type == "N" || ann_pmt_curr_jl == 0.) return 0.0; int proj_yr = xint(life->proj_year(t)); if(eq(life->projection_type_int, "Rollup")) proj_yr = xint(life->proj_year_rollup(t)); proj_yr= max(proj_yr, 0); double temp_ann_inv_rate = life->ann_inv_rate_mth_t[proj_yr]; if (life->margin_add_asset == "Y" && t == 1 && life->par_nonpar == "P" && !eq(life->submodel, "ANN")) temp_ann_inv_rate = life->asset_shock; if (life->margin_add_asset == "Y" && t == 2 && life->par_nonpar == "P" && eq(life->submodel, "ANN")) temp ann inv rate = life->asset shock; return temp_ann_inv_rate * res_basic_jl_1(t-1); 6.1.1.1.1.103 int_cred_jl2 if (t< commence_period_w || t > maturity_period_ann) return NO AVG; if (fund type == "N" || ann pmt curr jl == 0.) return 0.0; int proj_yr = xint(life->proj_year(t)); if(eq(life->projection_type_int, "Rollup")) proj_yr = xint(life->proj_year_rollup(t)); proj_yr= max(proj_yr, 0); double temp_ann_inv_rate = life->ann_inv_rate_mth_t[proj_yr]; if (life->margin_add_asset == "Y" && t == 1 && life->par_nonpar == "P" && !eq(life->submodel, "ANN")) temp_ann_inv_rate = life->asset_shock; if (life->margin_add_asset == "Y" && t == 2 && life->par_nonpar == "P" && eq(life->submodel, "ANN"))

temp_ann_inv_rate = life->asset_shock;

* res_basic_jl_2(t-1);

return temp_ann_inv_rate

6.1.1.1.1.107

mgt fee fixed jl1 if (t < commence_period_w || t > maturity_period_ann)

6.1.1.1.1.104 int_cred_no_gteed if (t< commence_period_w || t > maturity_period_ann) return NO AVG; if (fund_type == "N" || ann_pmt_curr == 0.) return 0.0; int proj_yr = xint(life->proj_year(t)); if(eq(life->projection_type_int, "Rollup")) proj_yr = xint(life->proj_year_rollup(t)); proj_yr= max(proj_yr, 0); double temp_ann_inv_rate = life->ann_inv_rate_mth_t[proj_yr]; if (life->margin_add_asset == "Y" && t == 1 && life->par_nonpar == "P" && !eq(life->submodel, "ANN")) temp_ann_inv_rate = life->asset_shock; if (life->margin_add_asset == "Y" && t == 2 && life->par_nonpar == "P" && eq(life->submodel, "ANN")) temp_ann_inv_rate = life->asset_shock; return temp_ann_inv_rate * res basic nogt(t-1); mgt_fee_fixed_dth 6.1.1.1.1.105 if (t < commence_period_w || t > maturity_period_ann) return 0.0; if (death ben == "N") return NO_AVG; if (fund_type == "N") return 0.0; $return \ mgt_fixed_mth$ * (res_basic_dth(t-1) + int_cred_dth(t)); 6.1.1.1.1.106 mgt_fee_fixed_gtd if (t < commence_period_w || t > maturity_period_ann) return 0.0; if (ann_pmt_curr_gteed == 0.) return NO_AVG; if (fund type == "N") return 0.0; return mgt_fixed_mth * (res_basic_gt(t-1) + int_cred_gteed(t));

```
return 0.0;
if ( ann_pmt_curr_jl == 0.)
       return NO_AVG;
if (fund_type == "N")
       return 0.0;
return mgt_fixed_mth
              * (res_basic_jl_1(t-1) + int_cred_jl1(t));
                 mgt_fee_fixed_jl2
6.1.1.1.1.108
if (t < commence_period_w || t > maturity_period_ann)
       return 0.0;
if ( ann_pmt_curr_jl == 0.)
       return NO_AVG;
if (fund_type == "N")
       return 0.0;
return mgt fixed mth
              * (res_basic_jl_2(t-1) + int_cred_jl2(t));
                 mgt_fee_fixed_nogt
6.1.1.1.1.109
if (t < commence period w || t > maturity period ann)
       return 0.0;
if ( ann pmt curr == 0.)
       return NO_AVG;
if (fund_type == "N")
       return 0.0;
return mgt_fixed_mth
              * (res_basic_nogt(t-1) + int_cred_no_gteed(t));
6.1.1.1.1.110
                 mgt_fee_var_dth
if (t< commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if(fund_type == "N" || death_ben == "N")
       return 0.0;
double mgt_var = mgt_var_no_bor_dth(t);
//if (net_interest_rate(t) > 0.0)
//
       mgt_var = mgt_fee_variable/100.
              * (int_cred_dth(t) - mgt_fee_fixed_dth(t));// Management fee (assuming no adjustment)
//
mgt_var = mgt_var + bor_return_dth(t);//Deduct bor to be returned
mgt_var = max(mgt_var, 0);
mgt_var = mgt_var - har_return_dth(t);
```

```
if (abs(mgt_var) < SMALL_DOUBLE)</pre>
       return 0.0; //Remove small rounding issues
return mgt_var;
6.1.1.1.1.111
                 mgt_fee_var_gtd
if (t< commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if(fund_type == "N" || ann_pmt_curr_gteed == 0.)
       return 0.0;
double mgt_var = mgt_var_no_bor_gtd(t);
//if (net_interest_rate(t) > 0.0)
              mgt_var = mgt_fee_variable/100.
//
               * (int_cred_gteed(t) - mgt_fee_fixed_gtd(t));// Management fee (assuming no
adjustment)
mgt_var = mgt_var + bor_return_gtd(t);//Deduct bor to be returned
mgt_var = max(mgt_var, 0);
mgt_var = mgt_var - har_return_gtd(t);
if (abs(mgt_var) < SMALL_DOUBLE)</pre>
       return 0.0; //Remove small rounding issues
return mgt_var;
6.1.1.1.1.112
                 mgt_fee_var_jl1
if (t< commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if(fund_type == "N" || ann_pmt_curr_jl == 0.)
       return 0.0;
double mgt_var = mgt_var_no_bor_jl1(t);
//if (net_interest_rate(t) > 0.0)
//
       mgt_var = mgt_fee_variable/100.
//
              * (int_cred_jl1(t) - mgt_fee_fixed_jl1(t));// Management fee (assuming no adjustment)
mgt_var = mgt_var + bor_return_jl1(t);//Deduct bor to be returned
mgt_var = max(mgt_var, 0);
mgt var = mgt var - har return jl1(t);
if (abs(mgt var) < SMALL DOUBLE)</pre>
       return 0.0; //Remove small rounding issues
return mgt_var;
6.1.1.1.1.113
                 mgt_fee_var_jl2
if (t< commence_period_w || t > maturity_period_ann)
```

```
return NO_AVG;
if(fund_type == "N" || ann_pmt_curr_jl == 0.)
       return 0.0;
double mgt_var = mgt_var_no_bor_jl2(t);
//if (net_interest_rate(t) > 0.0)
       mgt_var = mgt_fee_variable/100.
//
//
              * (int_cred_j12(t) - mgt_fee_fixed_j12(t));// Management fee (assuming no adjustment)
mgt_var = mgt_var + bor_return_jl2(t);//Deduct bor to be returned
mgt_var = max(mgt_var, 0);
mgt_var = mgt_var - har_return_jl2(t);
if (abs(mgt_var) < SMALL_DOUBLE)</pre>
       return 0.0; //Remove small rounding issues
return mgt_var;
6.1.1.1.1.114
                 mgt_fee_var_nogt
if (t< commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if(fund_type == "N" || mgt_fee_var == 0.0 || ann_pmt_curr == 0.)
       return 0.0;
double mgt_var = mgt_var_no_bor_nogt(t);
//if (net_interest_rate(t) > 0.0)
       mgt_var = mgt_fee_variable/100.
//
//
               * (int_cred_no_gteed(t) - mgt_fee_fixed_nogt(t));// Management fee (assuming no
adjustment)
mgt_var = mgt_var + bor_return_nogt(t);//Deduct bor to be returned
mgt_var = max(mgt_var, 0);
mgt_var = mgt_var - har_return_nogt(t);
if (abs(mgt_var) < SMALL_DOUBLE)</pre>
       return 0.0; //Remove small rounding issues
return mgt_var;
6.1.1.1.1.15
                 tarif_deduction_dth
if (t < commence_period_w || t > maturity_period_ann )
       return NO_AVG;
if (death_ben == "N")
       return NO_AVG;
```

```
if (fund_type == "N")
       return 0.0;
return rate_tarif_mth
              * res_basic_dth(t-1);
6.1.1.1.1.116
                 tarif_deduction_gteed
if (t < commence_period_w || t > maturity_period_ann )
       return NO_AVG;
if (annuity_pmt_curr_tot == 0.)
       return NO_AVG;
if (fund_type == "N")
       return 0.0;
return rate_tarif_mth
              * res_basic_gt(t-1);
                 tarif_deduction_jl1
6.1.1.1.1.117
if (t < commence_period_w || t > maturity_period_ann )
       return NO_AVG;
if (ann_pmt_curr_jl == 0.)
       return NO AVG;
if (fund type == "N")
       return 0.0;
return rate_tarif_mth
              * res_basic_jl_1(t-1);
                 tarif_deduction_jl2
6.1.1.1.1.118
if (t < commence_period_w || t > maturity_period_ann )
       return NO_AVG;
if (ann_pmt_curr_jl == 0.)
       return NO_AVG;
if (fund_type == "N")
       return 0.0;
return rate_tarif_mth
              * res_basic_jl_2(t-1);
6.1.1.1.1.119
                 tarif_deduction_no_gteed
if (t < commence_period_w || t > maturity_period_ann )
       return NO_AVG;
if (ann_pmt_curr == 0.)
       return NO_AVG;
if (fund_type == "N")
       return 0.0;
```

```
return rate_tarif_mth
              * res_basic_nogt(t-1);
6.1.1.1.1.120
                 ann_pay_gteed_if
if (t <= commence_period_w || t > maturity_period_ann )
       return NO_AVG;
if (ann_pmt_curr_gteed == 0)
       return NO_AVG;
return ann_pmt_curr_gteed * surv_gteed (t-1);
6.1.1.1.1.121
                 ann_pay_gteed_if_final
if (t <= commence_period_w || t > maturity_period_ann )
       return NO_AVG;
if (ann_pmt_curr_gteed == 0)
       return NO AVG;
return ann_pay_gteed_if(t) * bonus_index_gteed(t) * antisel_weight ;
6.1.1.1.1.122
                 ann_pay_jl_if_1
if (t <= commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (eq(joint_life_status, "Single") || ann_pmt_curr_jl == 0)
       return NO_AVG;
return ann_pmt_curr_jl * surv_1 (t-1);
6.1.1.1.1.123
                 ann_pay_jl_if_1_final
if (t <= commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (eq(joint_life_status, "Single") || ann_pmt_curr_jl == 0)
       return NO_AVG;
return ann_pay_jl_if_1(t) * bonus_index_jl_1(t) * antisel_weight ;
6.1.1.1.1.124
                 ann_pay_jl_if_2
if (t <= commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (eq(joint_life_status, "Single") || ann_pmt_curr_jl == 0)
       return NO_AVG;
if (t > (maturity_period_w + 1))
       return ann_pay_jl_if_2 (t - 1)
                      * (1 - death_rate_2_b3(t-1))
                      + //ann_pay_jl_if_1 (t - 1)
                      //Reproduce old
                      ann_pmt_curr_jl * surv_1(t-2)
                      * death rate 1(t-1)
                      * surv_2(t-1)
```

```
* life2_ppn_temp/100.;
return 0.0;
6.1.1.1.1.125
                 ann_pay_jl_if_2_final
if (t <= commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (annuity_pmt_curr_tot == 0)
       return NO_AVG;
        ann_pay_jl_if_2(t) * bonus_index_jl_2(t) * antisel_weight;
6.1.1.1.1.126
                 ann_pay_no_gteed
if (t <= commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (ann_pmt_curr == 0)
       return NO AVG;
return ann_pmt_curr * surv_1 (t-1);
6.1.1.1.1.127
                 ann_pay_no_gteed_final
if (t <= commence_period_w || t > maturity_period_ann)
       return NO AVG;
if (ann_pmt_curr == 0)
       return NO_AVG;
return ann_pay_no_gteed(t) * bonus_index_no_gtee(t) * antisel_weight; ;
6.1.1.1.1.128
                 death_rates_row_1
if (t <= commence_period_w || t > maturity_period_ann)
       return NO_AVG;
return min(xint(age_pol_1(t)),110);
6.1.1.1.1.129
                 death_rates_row_2
if (t <= commence_period_w || t > maturity_period_ann)
       return NO_AVG;
return min(xint(age_pol_2(t)),120);
6.1.1.1.1.130
                 units_for_takeup
if (t != maturity_period_w)
       return 0.0;
if(life->submodel == "TRAD")
       return trad->claims_maturity(t) * retirement_prop;
if(life->submodel == "TERM")
       return 0.0;
return life->units_at_mat(t) * retirement_prop;
```

```
6.1.1.1.1.131
                 age_pol_1
if (t <= commence_period_w || t > maturity_period_ann)
       return NO AVG;
if (annuity_pmt_curr_tot == 0)
       return NO_AVG;
if( t == commence_period_w +1 ){
       if(eq(life->paid_up, "G"))
              return life->age_at_issue;
       return age_ann_start_1;
}
return age_pol_1(t-1) + xint(life->pol_month(t-1)/12) ;
6.1.1.1.1.132
                 age_pol_2
if (t <= commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (annuity_pmt_curr_tot == 0)
       return NO_AVG;
//For single life policies, the second life is irrelevant
if (eq(joint_life_status, "Single"))
       return NO AVG;
if( t == commence period w +1 ){
       if(eq(life->paid up, "G"))
              return life->age_at_issue - age_diff_temp;
       return age_ann_start_2;
}
return age_pol_2(t-1) + xint(life->pol_month(t-1)/12) ;
6.1.1.1.1.133
                 profit_book_vif_post_ret_pv
if (t < commence_period_w || t > maturity_period_ann)
     return 0.0;
if (annuity_pmt_curr_tot == 0)
     return 0.0;
int proj yr = xint(life->proj year(t+1));
if(eq(life->projection_type_int, "Rollup"))
       proj_yr = xint(life->proj_year_rollup(t+1));
if(t >= maturity_period_w){
       return (profit_book_vif_post_ret(t+1) + profit_book_vif_post_ret_pv(t+1)) * life-
>ann_v_month_t[proj_yr];}
return 0.;
6.1.1.1.1.134
                 reserve increase pv
if (t < commence_period_w || t > maturity_period_ann)
     return 0.0;
if (annuity_pmt_curr_tot == 0)
     return 0.0;
```

```
int proj_yr = xint(life->proj_year(t+1));
if(eq(life->projection_type_int, "Rollup"))
       proj_yr = xint(life->proj_year_rollup(t+1));
if (t >= maturity_period_w)
       return (reserve_increase_pv(t+1) + reserve_increase(t+1))* life->ann_v_month_t[proj_yr];
return 0.0;
6.1.1.1.1.35
                 startup
start_externs
       extern map <int, int> ann_index_map;
       extern map <int, double> ret_prop_map;
       extern SmartArray <double> ret_prop_array;
end_externs
t_low = - (life->elapsed_months + 100); //arbitrarily setting to start calcs 100 months before
purchase date
if (eq(life->submodel,"TERM") || life->res_prop_kitzba <= 0.0)</pre>
       return 0;
initialise variables();
if (!eq(life->error_msg,"no_error"))
       commence_period_w = -1;
return 0;
```

6.1.1.1.2 External Functions

6.1.1.1.2.1 initialise_variables

```
void initialise_variables(void)
double ann_fac_gtee_temp=0.0;
int ann_fac_base_y = 0;
double ann_redn_fac = 0.0;
double adjfac=0.0;
benefit term = life->benefit term input;
sex1 = life->sex;
ann_series = life->ann_series;
// Set annuity takeup rates (if found in fund table)
if(life->submodel == "TRAD")
       annuitization_rate = life->annuitization_rate;
adjfac = ann_tu_old;
if(adjfac != 2.) {
       annuity_takeup_old = ann_tu_old;
       annuity_takeup_new_tag =ann_tu_newtag;
       annuity_takeup_prat =ann_tu_prat;
       annuity_takeup_piz =ann_tu_piz;
}
```

```
// set annuity take up rates for reserving basis
adjfac =ann_tu_old_res;
if(adjfac != 2.) {
       annuity_takeup_old_res = ann_tu_old_res;
       annuity_takeup_new_tag_res =ann_tu_newtag_res;
       annuity_takeup_prat_res =ann_tu_prat_res;
       annuity_takeup_piz_res = ann_tu_piz_res;
}
if (eq(life->submodel,"UNIT")) {
       if(!inlist(life->policy_type,"private,selfemp") || life->res_kitzba >0.){
               if(life->age_at_issue + life->elapsed_months/12. < takeup_age)</pre>
                      benefit_term = (takeup_age - life->age_at_issue) * 12;
       }
}
if(eq(life->submodel, "TRAD")) {
       if(!inlist(life->policy_type,"private,selfemp") || life->res_kitzba >0.){
                      if(life->age_at_issue + life->elapsed_months/12. < takeup_age)</pre>
                             benefit_term = (takeup_age - life->age_at_issue) * 12;
       }
}
maturity_period_w = life->commence_period_w + benefit_term;
maturity_period_ann = maturity_period_w;
age_ann_start_1 = floor(life->age_at_issue) + xint(benefit_term/12);
year_ann_start = life->year_prod + xint(benefit_term/12);
if (life->submodel!="TRAD" && life->paid_up =="G"){
       maturity period w = 0;
       age_ann_start_1 = floor(life->age_at_issue) + xint(life->elapsed_months/12);
       year_ann_start = life->year_prod + xint(life->elapsed_months/12) ;
       if (freeinv res ann tarif == "Y")
              freeinv_rate_res_ann = int_tarif;
       else
               freeinv_rate_res_ann = freeinv_res_ann_inpay;
       }
// set annuity code
double check = 0.0;
if (life->submodel =="TRAD"){
       temp_annuity_code = xstring(ann_series)+"_"+life->sex + "_" + xstring(age_ann_start_1);
       check =annuity_details_temp_tbl;
       /*the following code should be here but to maintain the error in line 20, we need to put in
th else part!*/
       if (check==-99999.) {
              if(sex1 == "M")
                      annuity code = xstring(ann series)+" "+life->sex + " 67" ;
                      annuity_code = xstring(ann_series)+"_"+life->sex + "_64" ;
       }
       else
```

```
annuity_code = temp_annuity_code;
}else{
       temp_annuity_code = xstring(temp_fund_rates_tbl) + "_" + life->sex + "_" +
xstring(age_ann_start_1);
       check = annuity_details_temp_tbl;
       if (check==-99999.)
               annuity_code = xstring(temp_fund_rates_tbl)+"_"+ life->sex + "_80" ;
       else
               annuity_code = temp_annuity_code;
}
ann_fac_no_gtee_temp = ann_fac_no_gtee;
ann_fac_joint_temp = ann_fac_joint;
ann_fac_base_y =base_year;
ann_redn_fac = redn_factor;
ann_fac_gtee_temp = ann_fac_gtee_value;
if(ann_fac_base_y > 0){
       if(ann redn fac < 0)</pre>
               ann_fac_gtee = ann_fac_gtee_temp/(1. + ann_redn_fac/100.*(year_ann_start -
ann_fac_base_y));
       else
              ann_fac_gtee = ann_fac_gtee_temp * (1. + ann_redn_fac/100.*(year_ann_start -
ann_fac_base_y));
       }
else
       ann_fac_gtee = ann_fac_gtee_temp;
int_rate_res_ann = int_res_ann;
if (freeinv_res_ann_tarif == "Y")
               freeinv_rate_res_ann = int_tarif;
       else
               freeinv rate res ann = freeinv res ann;
mort fac res ann = res ann mort fac;
exp_res = res_ann_exp;
int_tarif_temp = int_tarif;
mgt_fee_fixed_temp = mgt_fee_fixed;
mgt_fee_variable = mgt_fee_var;
mgt_fee_fixed_max = mgt_fee_max;
gteed_term = (gtee_prd) * 12;
life2_ppn_temp = life2_ppn;
if (life->margin add=="Y")
       mort_fac_res_ann = mort_fac_res_ann * (1+life->margin_res_ann_mort_fac/100);
age_diff_temp = age_diff;
if(eq(life->paid_up, "G")){
       age_diff_temp = atof(life->maasik_no);
       if(life->submodel !="TRAD"){
               if(life->ann maslul > 100 )
                      gteed_term = max(xint(life->ann_maslul/100.)*12 + life->commence_period_w ,
0);
               else
                      gteed term = 0;
```

```
}
}
joint_life_status = "Single";
if(ann_fac_joint_temp > 0)
       joint_life_status = "joint life";
if(life->submodel != "TRAD" && eq(life->paid_up,"G")){
       if(life->ann_maslul > 25 && life->ann_maslul <= 100){</pre>
               joint_life_status = "joint life";
               life2_ppn_temp = life->ann_maslul;
       }
       else
               joint_life_status = "Single";
death ben = "N";
if(ann_fac_dthben > 0)
       death_ben = "Y";
if(life->submodel != "TRAD" && eq(life->paid_up, "G")){
       if(life->ann_maslul == 25){
               death_ben = "Y";
               death_ben_curr = life->sum_ins_curr * life->benefits_curr * int(life->ann_maslul);
       }
       else {
               death_ben = "N";
               death_ben_curr = 0.;
       }
}
maturity_period_ann = maturity_period_w + (110 - age_ann_start_1) * 12;
commence_period_w = maturity_period_w;
if(life->submodel !="TRAD" && eq(life->paid up, "G")){
       commence_period_w = life->commence_period_w;
       maturity_period_ann = benefit_term + life->commence_period_w;
       }
if (!eq(joint_life_status, "Single"))
       maturity_period_ann = maturity_period_w + (110 - min(age_ann_start_1, age_ann_start_1 -
age_diff_temp)) * 12;
life->maturity_period_ann = maturity_period_ann;
set_work_variables();
return;
}
6.1.1.1.2.2
                 set_work_variables
void set_work_variables (void) {
yob_1 = year_ann_start - age_ann_start_1;
if (!eq(joint_life_status, "Single")){
```

else{

```
age_ann_start_2 = age_ann_start_1 - age_diff_temp;
       yob_2 = year_ann_start - age_ann_start_2;
       if( sex1=="M")
               sex2="F";
       else
               sex2="M";
if (life->submodel =="TRAD")
       ann_series_prop = ann_series;
else
       ann_series_prop = temp_fund_rates_tbl;
gtee_ppn_temp = gtee_ppn;
no_gtee_ppn_temp = no_gtee_ppn;
joint_life_ppn_temp = joint_life_ppn;
}
6.1.1.1.3 Temporary Tables
6.1.1.1.3.1
                 qx_final_res
// r = Rows are ages
// c = sex, 0= Male 1 = Female 2 = MaleB3 3 = FemaleB3
double qx=0.0;
if (c==0){
       if(sex1 == "M" ){
               if(r < age ann start 1)</pre>
                       qx=0.0;
               else{
                      life->mort_year_tt = year_ann_start+ r- age_ann_start_1;
                      dth_rts_m_row_key_tt = min( xint(r),120);
                       qx = death_rates_ann_m_res_tt;
               }
       }
       else{
               if(r<age_ann_start_2)</pre>
                      qx = 0.0;
               else{
                      life->mort_year_tt = year_ann_start+ r- age_ann_start_2;
                      dth_rts_m_row_key_tt = min( xint(r),120);
                       qx = death_rates_ann_m_res_tt;
               }
       }
}
if (c==1) {
       if(sex1 == "M" ){
               if(r < age_ann_start_2)</pre>
                      qx = 0.0;
```

```
life->mort_year_tt = year_ann_start+ r- age_ann_start_2;
                       dth_rts_m_row_key_tt = min( xint(r),120);
                       qx = death_rates_ann_f_res_tt;
       }
       else{
               if(r < age_ann_start_1)</pre>
                       qx = 0.0;
               else{
                       life->mort_year_tt = year_ann_start+ r- age_ann_start_1;
                       dth_rts_m_row_key_tt = min( xint(r),120);
                       qx = death_rates_ann_f_res_tt;
               }
       }
}
if (c==2){
       if(sex1 == "M" ){
               if(r < age_ann_start_1)</pre>
                       qx = 0.0;
               else{
                       life->mort_year_tt = year_ann_start+ r- age_ann_start_1;
                       dth_rts_m_row_key_tt = min( xint(r),120);
                       qx = death_rates_ann_m_res_b3_tt;
               }
       }
       else{
               if(r<age_ann_start_2)</pre>
                       qx = 0.0;
               else{
                       life->mort_year_tt = year_ann_start+ r- age_ann_start_2;
                       dth_rts_m_row_key_tt = min( xint(r),120);
                       qx = death_rates_ann_m_res_b3_tt;
               }
       }
}
if (c==3) {
       if(sex1 == "M" ){
               if(r < age_ann_start_2)</pre>
                       qx = 0.0;
               else{
                       life->mort_year_tt = year_ann_start+ r- age_ann_start_2;
                       dth_rts_m_row_key_tt = min( xint(r),120);
                       qx = death_rates_ann_f_res_b3_tt;
               }
       }
       else{
               if(r < age_ann_start_1)</pre>
                       qx = 0.0;
               else {
                       life->mort_year_tt = year_ann_start+ r- age_ann_start_1;
```

```
dth_rts_m_row_key_tt = min( xint(r),120);
                      qx = death_rates_ann_f_res_b3_tt;
               }
       }
}
return qx/0.96*(1.-(qx_sd_comp_res + qx_sd_random_res)/100.)*mort_fac_res_ann/100./1000.;
6.1.1.1.3.2
                 res_cx_ann
// Commutation Function Cx = v^{(x+1)} * lx - l(x+1)
// r = current age in years
if (r == 120)
       return res_dx_ann(r,0)/(1.+int_rate_res_ann/100.);
double d = res_lx_ann(r,sexcode_1) - res_lx_ann(r+1,sexcode_1); //deaths aged r
if (int_rate_res_ann == 0.0)
       return d;
return d * res vx ann(r+1, sexcode 1);
6.1.1.1.3.3
                 res_dx_ann
// Commutation Function Dx Yearly Dx = lx * v^x
// r = current age in years
if (r > 120)
       return 0.0;
return res_lx_ann(r, c) * res_vx_ann(r,c);
6.1.1.1.3.4
                 res_lx_ann
// Commutation Function lx
if (r <= 20) // cannot look up a zero or negative starting age
       return 100.0; // radix
if (min(r ,r -age_diff_temp) > life->omega_age_w) // omega age allows for table adjustment
       return 0.0;
// Single life
if (c<2) {
       double q = qx_final_res(r -1, c);
       return res_lx_ann(r-1, c) * (1. - q);
}
// Joint Life
double q1 = qx_final_res(r -1, sexcode_1);
double q2 = qx_final_res(max(min(r -1-age_diff_temp,119),0), sexcode_2);
return res_lx_ann(r-1, c) * (1. - q1)* (1. - q2);
6.1.1.1.3.5
                 res_mx_ann
if (r>120)
```

```
return 0.0;
if (r==120)
       return res_cx_ann(r,0);
return res_cx_ann(r,0) + res_mx_ann(r+1,0);
6.1.1.1.3.6
                 res_nx_ann
//Nx
if (r >= 120)
return res_dx_ann(r, c);
return res_nx_ann(r+1, c) + res_dx_ann(r, c);
6.1.1.1.3.7
                 res_vx_ann
// Commutation Function vx = v^(x)
// r = current age in years
double temp_inv_inc = life->invinc/100.;
double temp_free_inv_prop_1 = life->free_inv_prop_t[min(max(year_ann_start-life->valn_year + r -
age_ann_start_1 - 1,0),100)];
double temp_free_inv_prop_2 = life->free_inv_prop_t[min(max(year_ann_start-life->valn_year + r -
age_ann_start_2 - 1,0),100)];
double temp_res_rate_1 =freeinv_rate_res_ann/100.*temp_free_inv_prop_1 + temp_inv_inc*(1-
temp_free_inv_prop_1);
double temp_res_rate_2 = freeinv_rate_res_ann/100.*temp_free_inv_prop_2 + temp_inv_inc*(1-
temp_free_inv_prop_2);
if (c == sexcode_2){
       if (r < age ann start 2) // cannot look up a zero or negative starting age
               return 1.0;
       if( r == age_ann_start_2 && life->paid_up=="G")
              return 1.0;
       return res_vx_ann(r-1,sexcode_2) /(1.+temp_res_rate_2);
       }
if (c == sexcode_1){
       if (r < age_ann_start_1) \ //\  cannot look up a zero or negative starting age
               return 1.0;
       if( r == age_ann_start_1 && life->paid_up=="G")
              return 1.0;
       return res_vx_ann(r-1,sexcode_1) /(1.+temp_res_rate_1);
if (r < age_ann_start_1) // cannot look up a zero or negative starting age
       return 1.0;
if( r == age ann start 1 && life->paid up=="G")
              return 1.0;
return res_vx_ann(r-1,2) /(1.+ temp_res_rate_1);
```

6.1.1.1.4 Scalars

```
6.1.1.1.4.1
                 ann_pmt_curr
if(eq(life->paid_up, "G")){
       if(life->ann_maslul == 25 || life->ann_maslul <= 1)</pre>
              return life->sum_ins_curr * life->benefits_curr * retirement_prop;
       return 0.0;
       }
if(ann_fac_no_gtee_temp != 0.0)
       return initial_annuity_purchase * no_gtee_ppn_temp/ann_fac_no_gtee_temp;
return 0.0;
6.1.1.1.4.2
                 ann_pmt_curr_gteed
if(eq(life->paid_up, "G")){
       if(life->ann_maslul > 100 )
               return life->sum_ins_curr * life->benefits_curr * retirement_prop;
       return 0.0;
       }
if(ann_fac_gtee != 0.0)
       return initial_annuity_purchase * gtee_ppn_temp/ann_fac_gtee;
return 0.0;
6.1.1.1.4.3
                 ann_pmt_curr_jl
if(eq(life->paid_up, "G")){
       if(life->ann maslul > 25 &&life->ann maslul <= 100)</pre>
               return life->sum_ins_curr * life->benefits_curr * retirement_prop;
       return 0.0;
       }
if(ann_fac_joint_temp != 0.0)
       return initial_annuity_purchase * joint_life_ppn_temp/ann_fac_joint_temp;
return 0.0;
6.1.1.1.4.4
                 antisel_weight
if (annuity_pmt_curr_tot == 0)
       return 0;
return 1. + antisel_ppn/100.* antisel_margin ;
6.1.1.1.4.5
                 antisel_weight_res
if (annuity_pmt_curr_tot == 0)
       return 0;
return 1. + antisel_ppn_res/100.* antisel_margin ;
6.1.1.1.4.6
                 fund_type
if(life->par_npar == 0)
       return "N";
```

```
return "P";
6.1.1.1.4.7
                 mgt_fixed_max_mth
return mgt_fee_fixed_max/1200.;
6.1.1.1.4.8
                 mgt_fixed_mth
return mgt_fee_fixed_temp/1200;
6.1.1.1.4.9
                 rate_tarif_mth
return pow((1.+ int_tarif_temp/100),1./12.)-1.;
6.1.1.1.4.10
                 sexcode_1
if (sex1=="F")
       return 1;
return 0;
6.1.1.1.4.11
                 sexcode_2
if (sex2=="F")
       return 1;
return 0;
6.1.1.1.4.12
                 annuity_pmt_curr_tot
return ann_pmt_curr
              + ann_pmt_curr_gteed
              + ann_pmt_curr_jl
              + death_ben_curr;
6.1.1.1.4.13
                 ann_ratio_res
//int age_takeup_local = takeup_age;
//int yob_local = life->yob;
//int fund = fund_t_factor;
double temp = annuity_value_res_tbl;
return max(1.0,temp+1);
6.1.1.1.4.14
                 antisel_ppn
if(!eq(life->paid_up,"G")){
       if (initial_annuity_purchase == 0.0)
              return 0.;
       return 100. - 100.*no_antisel_at_ann / initial_annuity_purchase;
}
if (life->submodel!="TRAD" && life->paid_up =="G")
       return life->promil;
return 100.;
```

6.1.1.1.4.15 antisel_ppn_res if(!eq(life->paid_up, "G")){ if (initial_annuity_purchase == 0.0) return 0.; return 100. - 100.*no_antisel_at_ann_for_res / initial_annuity_purchase; } if (life->submodel!="TRAD" && life->paid_up =="G") return life->promil; return 100.; 6.1.1.1.4.16 no_antisel_at_ann if (eq(life->submodel, "TERM, ANN")) return 0.0; if (life->submodel=="TRAD" && (annuitization_rate<=0.00001 || !(eq(life->ben_class, "GIMLA")))) return 0.0; if(life->annuitization_rate<=0.00001 || life->res_prop_kitzba<=0.0) // *** need way to distinguish between policies with and without guarantees, and with and without kitzva option return 0.0; double tagnew_money = 0.0; double piz_no_as = 0.0; double prat_no_as = 0.0; double old no as = 0.0; if (eq(life->submodel, "TRAD") && trad->reserve basic(maturity period w-1) != 0){ tagnew_money = trad->res_basic_act_newtag(maturity_period_w-1) + trad->res_basic_pup_newtag(maturity_period_w-1); tagnew_money = tagnew_money + (trad->res_basic_act_newtag(maturity_period_w-1) + trad->res_basic_pup_newtag(maturity_period_w-1) + trad->res_basic_act_piz(maturity_period_w-1) + trad->res_basic_pup_piz(maturity_period_w-1)) / trad->reserve basic(maturity period w-1) * (trad->bonus_if(maturity_period_w-1) + trad->bonus_if_pup(maturity_period_w-1)); //Part of bonus belonging to newtag; piz_no_as = trad->res_basic_act_piz(maturity_period_w-1) + trad->res_basic_pup_piz(maturity_period_w-1); prat_no_as = trad->res_basic_act_prat(maturity_period_w-1) + trad->res_basic_pup_prat(maturity_period_w-1); prat_no_as = prat_no_as + (trad->res_basic_act_prat(maturity_period_w-1) + trad->res_basic_pup_prat(maturity_period_w-1)) / trad->reserve_basic(maturity_period_w-1) * (trad->bonus_if(maturity_period_w-1) + trad->bonus_if_pup(maturity_period_w-1)); //Part of bonus belonging to prat;

```
old_no_as = trad->res_basic_act_old(maturity_period_w-1) + trad-
>res_basic_pup_old(maturity_period_w-1);
       old_no_as = old_no_as
                                            + (trad->res_basic_act_old(maturity_period_w-1) + trad-
>res_basic_pup_old(maturity_period_w-1))
                                            / trad->reserve_basic(maturity_period_w-1)
                                            * (trad->bonus_if(maturity_period_w-1) + trad-
>bonus_if_pup(maturity_period_w-1)); //Part of bonus belonging to prat;
if (eq(life->submodel, "UNIT")){ //Tagnew units before retirement
       tagnew_money = life->units_e_newtag(maturity_period_w-1);
       piz_no_as = life->units_e_piz(maturity_period_w-1);
       prat no as = life->units e prat(maturity period w-1);
       old_no_as = life->units_e_old(maturity_period_w-1);
}
if (life->margin_add!="Y") {//No margins on takeup
       tagnew_money = tagnew_money * annuity_takeup_new_tag/100.;
       piz_no_as = piz_no_as * annuity_takeup_piz/100.;
       prat_no_as = prat_no_as * annuity_takeup_prat/100.;
       old_no_as = old_no_as * annuity_takeup_old/100.;
}
else
{//Margins on takeup
       tagnew money = tagnew money * min(annuity takeup new tag/100.*(1 + life-
>margin annuity takeup/100.), life->annuity takeup max);
       piz_no_as = piz_no_as * min(annuity_takeup_piz/100.*(1 + life->margin_annuity_takeup/100.),
life->annuity_takeup_max);
       prat_no_as = prat_no_as * min(annuity_takeup_prat/100.*(1 + life-
>margin_annuity_takeup/100.), life->annuity_takeup_max);
       old_no_as = old_no_as * min(annuity_takeup_old/100.*(1 + life->margin_annuity_takeup/100.),
life->annuity_takeup_max);
}
piz_no_as = piz_no_as * (1. - life->piz_antiselection_adj/100.);
prat_no_as = prat_no_as * (1. - life->prat_antiselection_adj/100.);
old_no_as = old_no_as * (1. - life->old_antiselection_adj/100.);
if (life->surv_per_ret(maturity_period_w-1) > 0)
       return (tagnew_money + piz_no_as + prat_no_as + old_no_as)
                      * retirement_prop
                      / life->surv_per_ret(maturity_period_w-1);
return (tagnew_money + piz_no_as + prat_no_as + old_no_as)
                      * retirement_prop;
```

6.1.1.1.4.17 no_antisel_at_ann_for_res

```
if (eq(life->submodel, "TERM, ANN"))
       return 0.0;
if (life->submodel=="TRAD" && (annuitization rate<=0.00001 || !(eq(life->ben class, "GIMLA"))))
       return 0.0;
if(life->annuitization_rate<=0.00001 || life->res_prop_kitzba<=0.0) // *** need way to distinguish
between policies with and without guarantees, and with and without kitzva option
       return 0.0;
double tagnew_money = 0.0;
if (eq(life->submodel, "TRAD")){
       tagnew_money = trad->res_basic_act_newtag(maturity_period_w-1) + trad-
>res_basic_pup_newtag(maturity_period_w-1);
       if(trad->reserve_basic(maturity_period_w-1) !=0)
              tagnew_money = tagnew_money
                                            + (trad->res basic act newtag(maturity period w-1) +
trad->res_basic_pup_newtag(maturity_period_w-1)
                                            + trad->res_basic_act_piz(maturity_period_w-1) + trad-
>res_basic_pup_piz(maturity_period_w-1))
                                            / trad->reserve basic(maturity period w-1)
                                            * (trad->bonus if(maturity period w-1) + trad-
>bonus_if_pup(maturity_period_w-1)); //Part of bonus belonging to newtag;
if (eq(life->submodel, "UNIT")){ //Tagnew units before retirement
       tagnew_money = life->units_e_newtag(maturity_period_w-1);
}
if (life->margin_add!="Y") {//No margins on takeup
       tagnew_money = tagnew_money * annuity_takeup_new_tag/100.;
}
else
{//Margins on takeup
       tagnew money = tagnew money * min(annuity takeup new tag/100.*(1 + life-
>margin_annuity_takeup/100.), life->annuity_takeup_max);
}
if (life->surv_per_ret(maturity_period_w-1) > 0)
       return tagnew money
                      * retirement prop
                      / life->surv_per_ret(maturity_period_w-1);
return tagnew_money
                      * retirement_prop;
6.1.1.1.4.18
                 init_bor_har
if ( life->submodel == "TERM" || fund_type == "N")
```

```
return 0.0;
if (eq(life->paid_up, "G"))
       return life->resinforce * life->benefits_curr * life->mgt_deficit_perc * mgt_fee_var/100.;
return life->bor_har_retire(maturity_period_w+1) * ann_takeup_rate(maturity_period_w-1);
6.1.1.1.4.19
                 retirement_prop
if (life->retirement_age_lookup(1) > takeup_age)
       return 0.;
if(life->mult_age_ind == 1){
       return retirement rate/100.;
       }
if(takeup_age == life->takeup_age)
              return 1.;
return 0.;
6.1.1.1.4.20
                 temp_fund_scalar
if(eq(life->prod_code,"a72") && (atoi(life->fund) < 100 || inlist(life->fund, "521,523,527")))
       return xstring(min(atoi(life->fund),50));
if(eq(life->prod_code,"a80-00honi") && (atoi(life->fund) < 100 || inlist(life->fund,
"521,523,527")))
       return xstring(min(atoi(life->fund),51));
if(eq(life->prod\_code, "asav") \&& (atoi(life->fund) <= 52 || inlist(life->fund, "521,523,527")))
       return xstring(min(atoi(life->fund),50));
return life->fund;
6.1.1.1.4.21
                 initial_annuity_purchase
if(life->submodel == "TRAD")
       return trad->claims maturity(maturity period w) * ann takeup rate(maturity period w-1) *
retirement prop;
if(life->submodel == "TERM")
       return 0.0;
if(commence period w == life->maturity period w)
       return life->units_at_mat(maturity_period_w) * ann_takeup_rate(maturity_period_w-1);
return life->units_at_mat(maturity_period_w) * ann_takeup_rate(maturity_period_w-1) *
retirement_prop;
6.1.1.2 fund_cflow
6.1.1.2.1 Columns
6.1.1.2.1.1
                 decrement_rate
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
```

```
double qx = life->death_rate(t);
double rx = life->retirement_prop(t);
double px = life->prem_termination_prop(t);
if (!inlist(unit_type, "Accum_pup,Saving_pup"))
       return 1.-
               (1.-qx)
               *(1.-px) //Money exits active fund at premium termination rate
               *(1.-lapse_rate_bal(t));
return 1.-
               (1.-qx)
               *(1.-rx)//Money exits pupped fund at retirement rate
               *(1.-lapse_rate_bal(t));
6.1.1.2.1.2
                 lapse_rate_bal
// returning dependent lapse rate from top model
//for pup policies
if (inlist(unit_type, "Accum_pup,Saving_pup"))
       return life->lapse_rate_pup_bal(t);
// for others
if (inlist(unit_type, "Accum_prem,Saving"))
       return life->lapse_rate_act_bal(t);
return 0.0; //Unconditional return
6.1.1.2.1.3
                 premium
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
if (inlist(unit_type, "Accum_pup,Saving_pup")) {
       if (t==commence_period_w+1)
              return life->premium_gross(t);
       else
               return 0.0;
} // end if
return life->premium(t);
6.1.1.2.1.4
                 death_claims_units
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
// The death benefit equals the unit value at the end of the month
return units_e_bef(t) * life->death_rate(t);
```

```
6.1.1.2.1.5
                 claims surrender
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
if(life->lapse_total_bal(t)>=1. && inlist(unit_type, "Accum_prem,Saving"))
       return 0.;
return surr_value(t) * lapse_rate_bal(t);
6.1.1.2.1.6
                 surr charge
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
if (eq(life->ben_class,"Adif") || (life->pup_sv_charge_rebate_temp==0.0)) // penalty includes the
penalty on policies becoming paid-up
       return surr_penalty_e_bef(t) * life->lapse_total_bal(t); // surrenders and PUPs
       // For Profil there is no penalty on policies becoming paid-up, only later when surrendered
else
       return surr_penalty_e_bef(t) * lapse_rate_bal(t); // lapse_rate is only surrenders (not
PUPs)
6.1.1.2.1.7
                 surr penalty e bef
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
// The surrender penalty is calculated before
// surrender and death claims have been paid
double surr_penalty = 0.0;
if (inlist(unit_type, "Accum_prem,Saving") && t+elapsed_months >=0)
       surr_penalty = (units_e_bef(t) - death_claims_units(t))
                             * surr_chg_perc_units[t+elapsed_months] / 100.;
// calculate surrender penalty less rebate for Profil paid-up (no surrender penalty for pure
savings)
if (eq(unit_type, "Accum_pup") && (life->pup_sv_charge_rebate_temp > 0.0)) {
       for (int i = 1; i<=t; i++) // i is projection month
              if (i+elapsed months >=0)
                      surr_penalty = surr_penalty + pup_units_tt(i+elapsed_months, t-i)
                             * max(0.0 , (surr chg perc units[i + elapsed months] // surrender
charge (full)
                             - life->pup_sv_charge_rebate_temp * floor((t-i+1)/12.)) / 100.); //
surrender charge rebate at time of surrender
                                                   // (rebate increases after each full year,
surrender month included in count of years since made paid-up, but month when paid-up is not
included)
// limit the maximum surrender penalty to the nominal value of the units
surr penalty = min(surr penalty, units e bef(t));
return surr_penalty;
6.1.1.2.1.8
                 surr value
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
```

```
double units_bonus = 0.0;
if (eq(unit_type, "Accum_prem"))
       units_bonus = life->units_bon(t);
// The surrender value and value of units are calculated before
// surrender claims have been paid after death claims paid.
return units_e_bef(t)
         surr_penalty_e_bef(t)
          - death_claims_units(t)
          + units_bonus;
6.1.1.2.1.9
                 comm regular
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
if(inlist(unit_type, "Accum_prem, Saving")) {
       double prem_perc_unit = 100. * life->basic_perc(t);
       if (eq(unit_type, "Saving"))
              prem_perc_unit = 100. - prem_perc_unit;
       return premium(t)* prem_perc_unit/100. * comm_regular_pc[xint(pol_year(t))] / 100.;
}
else
       return 0.0;
6.1.1.2.1.10
                 comm renewal
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
if(inlist(unit_type,"Accum_prem,Saving") && xint(pol_year(t))>=comm_renewal_year) {
       double prem_perc_unit = life->basic_perc(t)*100.;
       if (eq(unit_type, "Saving"))
              prem_perc_unit = 100. - prem_perc_unit;
       return comm_ren_perc_prem / 100. * premium(t)* prem_perc_unit/100.;
}
else
       return 0.0;
6.1.1.2.1.11
                 comm_reserve
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
// % of unit reserve commission are assumed
// to be payable monthly at the beginning of month
if (life->commres_addvat == "Y")
       return units_b_bef(t) * comm_perc_res[xint(pol_year(t))] / 1200. * (1+life->vat/100.);
return units_b_bef(t) * comm_perc_res[xint(pol_year(t))] / 1200.;
6.1.1.2.1.12
                 int_cred_units_e
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
double temp_inv_rate_m = 0.0;
```

```
int proj_yr = xint(life->proj_year(t));
if(eq(life->projection_type_int, "Rollup"))
       proj_yr = xint(life->proj_year_rollup(t));
proj_yr = max(proj_yr, 0);
if (life->margin_add_asset == "Y" && t == 1 && life->submodel == "UNIT" && life->par_nonpar == "P")
       temp_inv_rate_m = life->asset_shock;
else
       temp_inv_rate_m = life->inv_rate_mth_t[proj_yr];
return units b(t) * temp inv rate m;
6.1.1.2.1.13
                 pol year
return life->pol_year(t);
6.1.1.2.1.14
                 units b
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
return units_b_bef(t) + alloc_units(t) - cover_charge(t);
6.1.1.2.1.15
                 units_b_bef
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
double new_bonus = 0.0;
if (eq(unit_type, "Accum_pup"))
       new_bonus = life->units_bon(t-1) * life->pup_rate_bal_dep(t-1) * life->surv_per_ret(t-1);
// SV penalty is only taken off units becoming paid-up for Adif, not for Profil.
// For Adif the units moved from prem-paying to PUP are after removing the SV penalty,
// and the SV penalty is removed from the prem-paying units in the formula surr charge.
// For Profil the surrender charge is not taken off when made paid-up. Later if the paid-up units
are surrendered, a penalty is applied.
double sv charge = 0.0;
if (eq(life->ben class, "Adif") || (life->pup sv charge rebate temp==0.0))
       sv charge = surr chg perc units[t+elapsed months]/100.;
double new_pup = 0.0;
// In the PUP fund:
// Add the unit balance in respect of policies
// which became paid-up in month t-1 to
// the unit balance of policies which were
// already paid up at the beginning of t-1
if (inlist(unit_type, "Accum_pup,Saving_pup")){
       new_pup = units_b_bef_pup(t) * (1.0 - sv_charge) // take off surrender penalty
                        + new_bonus; // add bonus accrued up to the paying up month
       /*if(t==1){
               log_strm<<"Unit type: "<<unit_type<<endl;</pre>
               log_strm<<"New pup: "<<new_pup<<endl;</pre>
               log_strm<<"units_b_bef_pup: "<<units_b_bef_pup(t)<<endl;</pre>
               log_strm<<"sv_charge: "<<sv_charge<<endl;</pre>
               log_strm<<"Bonus: "<<new_bonus<<endl;</pre>
```

```
}*/
}
else {
       // In the premium-paying fund:
       // Deduct the unit balance in respect of policies
       // which became paid-up in month t-1 from
       // the unit balance of policies which were
       // premium paying at the beginning of t-1
       new_pup = - units_b_bef_pup(t) * (1.0 - sv_charge); // take off surrender penalty
       // Do not need to remove bonus, because bonus is accrued externally to the units in
bonus_if(t) and there it is reduced.
}
return units_e(t-1) + new_pup;
6.1.1.2.1.16
                 units_b_bef_pup
if (inlist(unit_type, "Accum_pup,Accum_prem"))
       return life->units_b_bef_pup_acc(t);
else
       return life->units b bef pup sav(t);
6.1.1.2.1.17
                 units e
if (t <= commence_period_w || t >= maturity_period_w)
       return 0.0;
if (t == 0 && !eq(projection_type, "Rollup")) {
       double temp = 0.0;
       if ((paid_up=="Y") && (inlist(unit_type, "Accum_pup,Saving_pup")))
       if ((paid_up=="N") && (inlist(unit_type, "Accum_prem,Saving")))
              temp = 1.0;
       return unit_value_if * benefits_curr
                      * temp;
}
// Management fees are deducted at the end of each month, are
// expressed as a % of the value of the units and are deducted
// from the units.
// Assume that unit value can be negative
double units_bonus = 0.0; // claims_surrender includes persistency bonus, but this must not come
off units which excludes the bonus
if (eq(unit_type, "Accum_prem"))
       units_bonus = life->units_bon(t);
if (t == 0 && eq(projection_type, "Rollup")) {
       return (units_e_bef(t) - death_claims_units(t) - claims_surrender(t)
              + units bonus * lapse rate bal(t) - surr charge(t)
              + premium_nb_sp) * (life->surv_per_ret(t));
}
return (units_e_bef(t)
              death_claims_units(t)
              claims_surrender(t)
```

```
+ units_bonus * lapse_rate_bal(t)
               - surr_charge(t)) * (life->surv_per_ret(t));
6.1.1.2.1.18
                 units_e_bef
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
// If projection start, reset to be start account value
if (t==0 && !eq(projection_type,"Rollup"))
       return units_e(t);
return units_b(t) + int_cred_units_e(t) - management_fee(t);
6.1.1.2.1.19
                 alloc_units
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
if (premium(t) == 0.0)
       return 0.0;
if (inlist(unit_type, "Accum_prem,Saving")) {
       double prem_perc_unit = min(100.,life->basic_perc(t)*100.);
       if (eq(unit_type, "Saving"))
               prem_perc_unit = 100. - prem_perc_unit;
       return premium(t)*prem_perc_unit/100.*allocation_rate(t);
}
else // paid up
       if (t==commence period w+1 && (paid up=="Y") ) {
               double prem perc unit = min(100.,life->basic perc(t)*100.);
               if (eq(unit_type, "Saving_pup"))
                      prem_perc_unit = 100. - prem_perc_unit;
               return premium(t)*prem_perc_unit/100.;
       }
       else
               return 0.0;
6.1.1.2.1.20
                 allocation_rate
if (t < commence_period_w || t > maturity_period_w)
       return 0.0;
// do not calculate for paid-up units
if (eq(unit_type, "Accum_pup")|| eq(unit_type, "Saving_pup") || paid_up=="Y" )
       return 0.0;
// set up allocation rate periods
double dur = t + elapsed_months;
int n = alloc_rate_period[1];
int i=1;
// set up allocation rates
while ((dur > n) \& (i < 14)) {
       i = i + 1;
       n = n + alloc rate period[i];
       }
double rate = 0.0;
```

```
//check if there is a maximum premium charge
if (life->alloc_limit>0.0) {
       if (life->premium(t)== 0.0 )
              rate = 1.0;
       else
              rate = max(alloc_rate[i]/100.,1.0-(life->alloc_limit * life->surv_ret(t-1)/life-
>premium(t)));
       }
else
        rate = alloc_rate[i] / 100.;
double margin alloc = 0.0;
if(life->margin_add_discount == "Y"){
       life->margin_disc_col_key = "DN_prem_" + life->ben_class;
       margin_alloc = - life->mgt_fee_disc/100.;
}
return min(rate + margin_alloc, 1.);
6.1.1.2.1.21
                 cover_charge
if (inlist(unit_type,"Accum_pup,Saving_pup")) // *** may need to have riders for paid-up as well?
       return 0.;
double prop = 0.;
double units = units_b_bef(t) + alloc_units(t);
if (units > 0.) {
       double tot_units = 0.;
       if (eq(unit_type, "Accum_prem"))
       tot_units = units + saving->units_b_bef(t) + saving->alloc_units(t);
       if (eq(unit_type, "Saving"))
       tot_units = units + accum->units_b_bef(t) + accum->alloc_units(t);
              if (tot_units > 0.) {
              prop = units/tot units;
return prop * life->cover charge(t);
6.1.1.2.1.22
                 int_rate_net_cumm
//Can probably be removed, but leave in just for info
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
if(t==0)
       return 0.0;
double int_prev = 0.0;
if(life->cal_month(t) != 1){
```

```
if(t==1)
               int_prev = life->mgt_deficit_perc;
       else
              int_prev = int_rate_net_cumm(t-1);
}
return (1+net_interest_rate(t))*
               (1+int_prev)
6.1.1.2.1.23
                 management_fee_fixed
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
//Management fee discount
double margin_mgt = 0.0;
if(life->margin_add_discount == "Y" && par_nonpar!="N"){
       life->margin_disc_col_key = "DN_acc_" + life->ben_class;
       margin_mgt = life->mgt_fee_disc/1200.;
}
//No split if no variable management fees
if (mgt_fee_variable == 0){
       if (margin_mgt != 0.0)
              margin_mgt = max(margin_mgt, -management_fee_rate(t));
       return (units_b(t) + int_cred_units_e(t))
                      * (management_fee_rate (t) + margin_mgt);
}
if (margin mgt != 0.0)
       margin_mgt = max(margin_mgt, - mgt_fee_fixed/1200.);
return (units_b(t) + int_cred_units_e(t))
               * (mgt_fee_fixed/1200. + margin_mgt);
6.1.1.2.1.24
                 management_fee_variable
if (t <= 0 || t > maturity_period_w)
       return 0.0;
if(mgt_fee_variable == 0.0)
       return 0.0;
if (inlist(unit_type, "Accum_pup,Saving_pup")){
```

```
if(life->units_b_pup(t) > 0)
              return life->management_fee_variable_pup(t)
                             * units_b(t)
                             / life->units_b_pup(t);
}
else
{
       if(life->units_b_active(t) > 0)
              return life->management_fee_variable(t)
                             * units b(t)
                             / life->units_b_active(t);
}
return 0.0;
6.1.1.2.1.25
                 net_interest_rate
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
double temp_inv_rate_m = 0.0;
int proj_yr = xint(life->proj_year(t));
if(eq(life->projection_type_int, "Rollup"))
       proj_yr = xint(life->proj_year_rollup(t));
proj_yr = max(proj_yr, 0);
if (life->margin_add_asset == "Y" && t == 1 && life->submodel == "UNIT" && life->par_nonpar == "P")
       temp_inv_rate_m = life->asset_shock;
else
       temp_inv_rate_m = life->inv_rate_mth_t[proj_yr];
return (1+temp_inv_rate_m)
              * (1- mgt_fee_fixed/1200.)
              -1.;
6.1.1.2.1.26
                 management_fee
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
return management_fee_variable(t)
              + management fee fixed (t);
6.1.1.2.1.27
                 management_fee_rate
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
int proj_yr = xint(life->proj_year(t));
int proj_yr_dn = xint(life->proj_year(t-1));
if(eq(life->projection_type_int, "Rollup")){
       proj_yr = xint(life->proj_year_rollup(t));
       proj_yr_dn = xint(life->proj_year_rollup(t-1));
```

```
}
int proj_yr_pos = max(proj_yr, 0);
double temp_inv_rate_m = 0.0;
if (par_nonpar=="N" || eq(life->ben_class, "adif")){
       if (t>2 && (proj_yr ==proj_yr_dn))
              return management_fee_rate(t-1);}
if (life->margin_add_asset == "Y" && t == 1 && life->submodel == "UNIT" && life->par_nonpar ==
"P"){
       temp_inv_rate_m = life->asset_shock;
       if (life->dump vars == "Y")
              log_strm<<"asset shock at time "<<t<<": "<<temp_inv_rate_m<<endl;</pre>
}
else
       temp_inv_rate_m = life->inv_rate_mth_t[proj_yr_pos];
if (par_nonpar=="N") // for non-participating funds, mgt_fee_fixed is the credited interest rate
(net return to policyholder)
       return life->inv_rate_mth_t[proj_yr_pos] - (pow(1. + mgt_fee_fixed / 100. , 1. / 12.) - 1.);
if (eq(life->ben_class, "adif")) {
              return temp_inv_rate_m - (1.-mgt_fee_variable/100.)*
                      ((1.+temp_inv_rate_m)*(1.- mgt_fee_fixed/1200.) - 1.);
              }
if( life->year_start >= 2013) //different monthly-compounded management fee for before/after 2013
       return pow(1. + management_fee_rate_annual(t) , 1. / 12.) - 1.;
       return 1.- pow(1. - management_fee_rate_annual(t) , 1. / 12.);
6.1.1.2.1.28
                 management fee rate annual
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
if (par_nonpar=="N" || eq(life->ben_class,"adif"))
       return 0.0;
if (t>1 && (life->pol_month(t) > 1))
       return management_fee_rate_annual(t-1);
double mgtfee_rate_Data = mgt_fee_fixed / 100.;
double mgtfee rate = mgtfee rate Data;
double local surv =0.0;
if (decrements_apply=="N")
       local_surv = 1.0;
              else
       local_surv = life->surv_act_bal(t-1) + life->surv_pup_bal(t-1);
if (t <= 1 || life->mgtfee_age == -99999. || local_surv==0)
       return mgtfee_rate_Data;
if (life->mgtfee age>0.0){
       if( life->age_last(t) >= life->mgtfee_age)
```

```
mgtfee_rate = life->mgtfee_age_after / 100.;
       }
if (life->mgtfee_acc>0.0 && t >0) {
       if(life->mgtfee_acc_after>=0){
              if (life->units_b(t)>= life->mgtfee_acc * local_surv )
                      mgtfee_rate = life->mgtfee_acc_after / 100.;
              else {
                      if (life->mgtfee_from_senior >0.0 && ((t + life->elapsed_months) >= life-
>mgtfee_from_senior) && !eq(life->paid_up,"Y"))
                             mgtfee_rate = life-> mgtfee_senior/100.;
                      }
              }
       else
              mgtfee_rate = max(life-> mgtfee_orig/100.+life->mgtfee_acc_after/100.*xint((life-
>units_b(t)/local_surv)/life->mgtfee_acc),life->mgtfee_floor/100.);
if (life->mgtfee_from_dthben>0.0){
       mgtfee_rate = life-> mgtfee_orig/100.;
       double mgtfee_discount1 = 0.0;
       double mgtfee_discount2 = 0.0;
       // For Special MgtFee discount of format 2105
       if (life->mgtfee_disc_mth >0) {
              if (t + life->elapsed months <= life-> mgtfee disc mth) // For the first 24 months
zero mgtFee
                      return min(mgtfee_rate_Data,life-> mgtfee_disc_after/100.);
              if( life->death_benefit(t) < life->mgtfee_from_dthben* local_surv) // if DeathBen <
500k, mgtfee = 1.05\%
                      return min(mgtfee_rate_Data,mgtfee_rate);
              mgtfee_discount1 = life-> mgtfee_dthben/100.; //if DeathBen >= 500k, mgtfee = 1.05%
-0.25%
              if(life->mgtfee senior <= -0.0001){</pre>
                      mgtfee_discount2 = life->mgtfee_senior/100. // From 120 months 0.01% discount
every year
                                            * max(0,xint((t +life->elapsed_months -life-
>mgtfee_from_senior - 1)/12.+1));
              }
              mgtfee rate = max(mgtfee_rate + mgtfee_discount1 + mgtfee_discount2, life-
>mgtfee floor/100.); // Mgtfee no less than 0.75%
       return min(mgtfee_rate_Data,mgtfee_rate);
       if(life->mgtfee_from_dthben>0.0){
              mgtfee_discount1 = life-> mgtfee_dthben/100.
                                     *max(xint(life->death_benefit(t)/(life-
>mgtfee_from_dthben*local_surv)),0);
       if(life->mgtfee_senior <= -0.0001){</pre>
              mgtfee_discount2 = life->mgtfee_senior/100.
                                            * max(0,xint((t +life->elapsed_months -life-
>mgtfee_from_senior - 1)/12.+1));
```

```
mgtfee_rate = max(mgtfee_rate + mgtfee_discount1 + mgtfee_discount2, life-
>mgtfee_floor/100.);

if(life->mgtfee_max_dthben > 0.0 && (life->death_benefit(t)>= life-
>mgtfee_max_dthben*local_surv))

mgtfee_rate = life->mgtfee_floor/100.;
}

return min(mgtfee_rate_Data,mgtfee_rate);
```

6.1.1.2.2 External Functions

<No External Functions Exist>

6.1.1.2.3 Temporary Tables

6.1.1.2.3.1 pup_units_tt

```
// column c is duration since premium cessation (pup) with 0 being the month of prem. cess.
// row r is months since policy started with r=1 being the first policy month
if (c<0 || r<=1+elapsed_months) // first real row is 2 [+elaps.] which contains units made pup in
month 1 [+elaps.]
       return 0.;
if (c==0) // units made paid up in month r-1-elapsed_months (at end of month; no pup-lapses in same
month)
       return units_b_bef_pup(r - elapsed_months);
if (pup_units_tt(r,c-1) <= 0.0000001)
       return 0.; // to avoid divide by zero
return ( pup_units_tt(r,c-1)
              + pup units tt(r,c-1) / pup units tt.sum of diagonal(r+c-1) // proportion of interest
& management fee applying to this tranche of pup units
              * (int_cred_units_e(r+c-elapsed_months-1)
                - management fee(r+c-elapsed months-1)))
              * (1. - life->death_rate(r+c-elapsed_months-1))
              * (1. - lapse_rate_bal(r+c-elapsed_months-1));
```

6.1.1.2.4 Scalars

6.1.1.2.4.1 premium_nb_sp

```
(units_b(0) + int_cred_units_e(0) - management_fee(0)
              - death_claims_units(0) - claims_surrender(0)
              - surr_charge(0));
6.1.1.3 life_cflow
6.1.1.3.1 Columns
6.1.1.3.1.1
                 blank_test
return 0.0;
6.1.1.3.1.2
                 cashflow_b_bef_ret
if (t <= commence_period_w || t > maturity_period_ann)
       return 0.0;
return income b(t) - outgo b before ret(t);
6.1.1.3.1.3
                 claims Irc q1 pv
if (t < commence_period_w || t >= maturity_period_w || eq(paid_up, "C"))
       return 0.0;
int proj yr = xint(proj year(t+1));
if(eq(projection type int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
           (claims_lrc_q1_pv(t+1) + claims_lrc_q1(t+1))
return
                      * v_month_t[proj_yr];
6.1.1.3.1.4
                 claims_lrc_q2_pv
if (t < commence_period_w || t >= maturity_period_w || eq(paid_up, "C"))
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
           (claims_lrc_q2_pv(t+1) + claims_lrc_q2(t+1))
return
                      * v_month_t[proj_yr];
6.1.1.3.1.5
                 claims_lrc_q3_pv
if (t < commence period w || t >= maturity period w || eq(paid up, "C"))
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return
           (claims_lrc_q3_pv(t+1) + claims_lrc_q3(t+1))
                      * v_month_t[proj_yr];
6.1.1.3.1.6
                 claims_Irc_q4_pv
if (t < commence_period_w || t >= maturity_period_w || eq(paid_up, "C"))
       return 0.0;
```

```
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return
           (claims_lrc_q4_pv(t+1) + claims_lrc_q4(t+1))
                      * v_month_t[proj_yr];
6.1.1.3.1.7
                 claims_re_lrc_q1_pv
if (t < commence_period_w || t >= maturity_period_w || eq(paid_up,"C"))
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
           (claims_re_lrc_q1_pv(t+1) + claims_re_lrc_q1(t+1))
return
                      * v_month_t[proj_yr];
6.1.1.3.1.8
                 claims_re_lrc_q2_pv
if (t < commence_period_w || t >= maturity_period_w || eq(paid_up,"C"))
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return
           (claims re lrc q2 pv(t+1) + claims re lrc q2(t+1))
                      * v_month_t[proj_yr];
6.1.1.3.1.9
                 claims_re_lrc_q3_pv
if (t < commence_period_w || t >= maturity_period_w || eq(paid_up,"C"))
       return 0.0;
int proj yr = xint(proj year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
           (claims_re_lrc_q3_pv(t+1) + claims_re_lrc_q3(t+1))
return
                      * v_month_t[proj_yr];
6.1.1.3.1.10
                 claims_re_lrc_q4_pv
if (t < commence_period_w || t >= maturity_period_w || eq(paid_up, "C"))
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
           (claims_re_lrc_q4_pv(t+1) + claims_re_lrc_q4(t+1))
return
                      * v_month_t[proj_yr];
6.1.1.3.1.11
                 claims_re_lrc_yr2plus_pv
if (t < commence_period_w || t >= maturity_period_w || eq(paid_up,"C"))
       return 0.0;
```

```
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return
           (claims_re_lrc_yr2plus_pv(t+1) + claims_re_lrc_yr2plus(t+1))
                     * v_month_t[proj_yr];
6.1.1.3.1.12
                 expense_claims_lrc_q1_pv
if (t < commence_period_w || t > maturity_period_ann||(exp_claim_perc == 0. && exp_claim_fix ==0.)
|| eq(paid_up,"C"))
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
           expense_claims_lrc_q1_pv(t+1) * v_month_t[proj_yr] + expense_claims_lrc_q1(t+1);
return
6.1.1.3.1.13
                 expense_claims_lrc_q2_pv
if (t < commence_period_w || t > maturity_period_ann||(exp_claim_perc == 0. && exp_claim_fix ==0.)
|| eq(paid_up,"C"))
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
           expense_claims_lrc_q2_pv(t+1) * v_month_t[proj_yr] + expense_claims_lrc_q2(t+1);
return
6.1.1.3.1.14
                 expense claims Irc q3 pv
if (t < commence_period_w || t > maturity_period_ann||(exp_claim_perc == 0. && exp_claim_fix ==0.)
|| eq(paid_up,"C"))
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return
           expense_claims_lrc_q3_pv(t+1) * v_month_t[proj_yr] + expense_claims_lrc_q3(t+1);
6.1.1.3.1.15
                 expense_claims_lrc_q4_pv
if (t < commence_period_w || t > maturity_period_ann||(exp_claim_perc == 0. && exp_claim_fix ==0.)
|| eq(paid_up,"C"))
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
           expense_claims_lrc_q4_pv(t+1) * v_month_t[proj_yr] + expense_claims_lrc_q4(t+1);
return
6.1.1.3.1.16
                 expense_claims_lrc_yr2plus_pv
if (t < commence_period_w || t > maturity_period_ann||(exp_claim_perc == 0. && exp_claim_fix ==0.)
|| eq(paid_up,"C"))
       return 0.0;
```

```
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return
           expense_claims_lrc_yr2plus_pv(t+1) * v_month_t[proj_yr] +
expense_claims_lrc_yr2plus(t+1);
6.1.1.3.1.17
                 initialise
//copied from set_other_variables
// reduce SI if premium not high enough
if (eq(ben_class,"adif") && (paid_up=="N") && (sum_ins_curr > 0.000001)) {
       double rate = prem_rates_extra_tt(xint(age_at_issue+elapsed_months/12.), sex_smoker_code) /
1000.0;
       if (sum_ins_curr >= prem_risk_max/100. * prem_curr / rate) {
               sum_ins_curr = prem_risk_max/100. * prem_curr / rate
                                            + (1.-prem_risk_max/100.) * prem_curr / prem_freq
sum_ins_basic_tt(xint(age_at_issue),sex_smoker_code)/100.;
               sum_ins_curr = max( sum_ins_curr, 0.0);
               log_strm << "Fixed sum-insured for policy "+pol_number+" is too high for premium, so
reduced to " << sum_ins_curr << endl;
       }
}
int i = 0.;
if (submodel == "UNIT"){
       if (!eq(surr_chg_set, "default") && !eq(surr_chg_set, "zero")){
//copied from set_accum_fund and set_accum_pup_fund
               for (i = 0; i < 1000; i++){}
               accum->surr_chg_perc_units[i] = surr_charge_tt(i,0);
               acc_pup->surr_chg_perc_units[i] = surr_charge_tt(i,0);
               saving->surr_chg_perc_units[i] = surr_charge_tt(i,1);
               saving_pup->surr_chg_perc_units[i] = surr_charge_tt(i,1);
       }
}
// Reduce reserve commission according to the reduced management fee
if (eq(ben_class, "profil") && (mgtfee_age>0.0) && (mgt_fee_fixed>0.0)) {
       for (i = xint(mgtfee_age) - xint(age_last(commence_period_w)); i<116; i++) {</pre>
           sm_accum->comm_perc_res[i] = comm_perc_res_a[i] *mgtfee_age_after/ mgt_fee_fixed;
       }
}
int j = min_retirement_age;
ret_prop_array.resize(sm_annuity.size());
ret_prop_array[0] = 1;
for(int i = 1; i < sm_annuity.size(); i++){</pre>
               if(age_last(1) + 1 > j+i-1)
                      ret_prop_array[i] = 1;
               else
                      ret_prop_array[i] = ret_prop_array[i-1] * (1 - sm_annuity[ann_index_map[j+i-
1]]->retirement_prop);
```

```
}
return 0.0;
6.1.1.3.1.18
                 int_units_piz_active
if(submodel != "UNIT")
       return NO_AVG;
if (units_e_piz_active(t-1) <= 0.0)
       return 0.0;
if (sm_accum->units_b(t) + sm_saving->units_b(t) <= 0.0)</pre>
       return 0.0;
double piz = units_e_piz_active(t-1) + units_e_piz_int_active (t-1);
//Pup to deduct
double new_pup = 0;
if (sm accum->units e(t-1) + sm saving->units e(t-1) > 0)
       new_pup = (
                             units_b_bef_pup_acc(t) * (1. - sm_accum-
>surr_chg_perc_units[t+elapsed_months]/100.)
                             + units_b_bef_pup_sav(t) * (1. - sm_saving-
>surr_chg_perc_units[t+elapsed_months]/100.)
                              / (sm_accum->units_e(t-1) + sm_saving->units_e(t-1));
piz = piz - new_pup + alloc_units_piz(t);
double other_deductions = 0.0;
if ((sm_accum->units_b_bef(t) + sm_saving->units_b_bef(t)) > 0.0)
       other_deductions = other_deductions
                                                    (sm_accum->cover_charge(t) + sm_saving-
>cover_charge(t))
                                                    * (piz - new pup)
                                                    / (sm_accum->units_b_bef(t) + sm_saving-
>units_b_bef(t));
       else{
               if(alloc_units(t) > 0.0)
                      other_deductions = other_deductions
                                                           + (sm_accum->cover_charge(t) + sm_saving-
>cover_charge(t))
                                                           * piz
                                                           / alloc_units(t);
               }
piz = piz - other_deductions;
```

```
double temp_inv_rate_m = 0.0;
int proj_yr = xint(proj_year(t));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t));
proj_yr = max(proj_yr, 0);
if (margin_add_asset == "Y" && t == 1 && submodel == "UNIT" && par_nonpar == "P")
       temp_inv_rate_m = asset_shock;
else
       temp_inv_rate_m = inv_rate_mth_t[proj_yr];
double int_cred = piz * temp_inv_rate_m;
double mgt = 0;
if(sm_accum->units_b(t) + sm_saving->units_b(t) != 0)
       mgt = (sm_accum->management_fee(t) + sm_saving->management_fee(t))
                                                    * piz
                                                    / (sm_accum->units_b(t) + sm_saving-
>units_b(t));
return int_cred - mgt;
6.1.1.3.1.19
                 int_units_piz_pup
if(submodel != "UNIT")
       return NO_AVG;
double temp_inv_rate_m = 0.0;
int proj_yr = xint(proj_year(t));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t));
proj_yr = max(proj_yr, 0);
if (margin_add_asset == "Y" && t == 1 && submodel == "UNIT" && par_nonpar == "P")
       temp_inv_rate_m = asset_shock;
else
       temp_inv_rate_m = inv_rate_mth_t[proj_yr];
if(paid_up == "Y" && paid_up_input=="N"){
       if(units_b(t) <= 0.0)
              return 0.0;
       double piz = units_e_piz_pup(t-1) + units_e_piz_int_pup(t-1);
       double new_bonus = 0;
       if(units_e(t-1) != 0)
                      new_bonus = units_bon(t-1)
                                            * pup_rate_bal_dep(t-1)
                                            * surv_per_ret(t-1)
                                            * piz
                                            / units_e(t-1);
       piz = piz + new_bonus;
```

```
double int_cred = piz * temp_inv_rate_m;
       double mgt = 0;
       if(units_b(t) != 0)
               mgt = (management_fees_fixed_active(t) + management_fees_var_active(t))
                             / units_b(t);
       return int_cred - mgt;
}
if (sm_acc_pup->units_b(t) + sm_saving_pup->units_b(t) <= 0.0)</pre>
       return 0.0;
double piz = units_e_piz_pup(t-1) + units_e_piz_int_pup(t-1);
//Pup to deduct
double new_pup = 0.0;
double new_bonus = 0.0;
if (sm_accum->units_e(t-1) + sm_saving->units_e(t-1) > 0.0){
       if (paid_up == "N"){
               new_pup = (
                                     units_b_bef_pup_acc(t) * (1. - sm_accum-
>surr_chg_perc_units[t+elapsed_months]/100.)
                                     + units_b_bef_pup_sav(t) * (1. - sm_saving-
>surr_chg_perc_units[t+elapsed_months]/100.)
                                     * (units_e_piz_active(t-1) + + units_e_piz_int_active(t-1)) /
(sm_accum->units_e(t-1) + sm_saving->units_e(t-1));
               new_bonus = units_bon(t-1) * pup_rate_bal_dep(t-1) * surv_per_ret(t-1);
               new bonus = new bonus
                                     * (units e piz active(t-1) + units e piz int active(t-1)) /
(sm_accum->units_e(t-1) + sm_saving->units_e(t-1));
               new pup = new pup + new bonus;
       }
}
piz = piz + new_pup;
double int_cred = piz * temp_inv_rate_m;
double mgt = 0;
if(sm_acc_pup->units_b(t) + sm_saving_pup->units_b(t) != 0)
       mgt = (sm_acc_pup->management_fee(t) + sm_saving_pup->management_fee(t))
                             * piz
                             / (sm acc pup->units b(t) + sm saving pup->units b(t));
return int cred - mgt;
```

```
6.1.1.3.1.20
                 outgo_b_before_ret
return comm total(t)
       + expense_total_pre_ret(t)
       + premium_re(t);
6.1.1.3.1.21
                 res ann deficiency
if(inlist(submodel, "UNIT, TRAD, ANN") && res prop kitzba > 0.0){
       if(mult_age_ind == 1)
              return sm annuity->res ann deficiency(t);
       return sm_annuity[ann_index_map[takeup_age]]->res_ann_deficiency(t);
       }
return NO_AVG;
6.1.1.3.1.22
                 retirement_age_lookup
if(mult_age_ind == 1)
       return age_last(t) + 1;
return 0;
6.1.1.3.1.23
                 retirement_prop
if(submodel == "ANN" || submodel == "TERM")
       return 1;
if(t <= 0)
       return 0; //this is to allow for cases where policy holder enters at the exact age, e.g. 64
and when RI prems are calculated.
if(t < mat_period_min || t > maturity_period_w)
       return 0.;
if(mult_age_ind == 1.){
       if(retirement_age_lookup(1) > sm_annuity[sm_annuity.size()-1]->takeup_age)
              return 1.;
       if(xint(pol_month(t)) == 12){
              return retirement_rate/100.;
       return 0.;
}
return 1.;
6.1.1.3.1.24
                 rider_perc_allowed
if (t <= commence_period_w || t > maturity_period_w)
       return NO_AVG;
if (eq(ben_class, "Adif"))
       return 100.;
double temp = 0;
if (t >= 0)
       temp = charge_amount_tt.sum_of_row(t) * surv_act_prm(t-1);
```

```
if (temp<=0.0)
       return 100.;
if (inlist(policy_type, "Managers, Selfemp"))
       if (rider_max_perc/100. * alloc_units(t) * tagmulim_perc/100. < temp)</pre>
               return rider_max_perc * alloc_units(t) * tagmulim_perc/100. / temp;
       else
               return 100.;
else // Private
       if (rider_max_perc/100. * premium(t) < temp)</pre>
               return rider_max_perc * premium(t) / temp;
       else
               return 100.;
6.1.1.3.1.25
                 riskadj_gross_rel_q1_pv
if (t < commence_period_w || t >= maturity_period_ann || eq(paid_up, "C"))
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return
           (riskadj_gross_rel_q1_pv(t+1) + riskadj_gross_rel_q1(t+1))
                      * v_month_t[proj_yr];
6.1.1.3.1.26
                 riskadj gross rel q2 pv
if (t < commence period w || t >= maturity period ann || eq(paid up, "C"))
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return
           (riskadj_gross_rel_q2_pv(t+1) + riskadj_gross_rel_q2(t+1))
                      * v_month_t[proj_yr];
6.1.1.3.1.27
                 riskadj_gross_rel_q3_pv
if (t < commence_period_w || t >= maturity_period_ann || eq(paid_up,"C"))
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return
           (riskadj_gross_rel_q3_pv(t+1) + riskadj_gross_rel_q3(t+1))
                      * v_month_t[proj_yr];
6.1.1.3.1.28
                 riskadj_gross_rel_q4_pv
if (t < commence_period_w || t >= maturity_period_ann || eq(paid_up,"C"))
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
```

```
(riskadj_gross_rel_q4_pv(t+1) + riskadj_gross_rel_q4(t+1))
return
                      * v_month_t[proj_yr];
6.1.1.3.1.29
                 riskadj_gross_rel_total_pv
if (t < commence period w || t >= maturity period ann)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return
           (riskadj_gross_rel_total_pv(t+1) + riskadj_gross_rel_total(t+1))
                      * v_month_t[proj_yr];
6.1.1.3.1.30
                 riskadj_gross_rel_yr2plus_pv
if (t < commence_period_w || t >= maturity_period_ann || eq(paid_up,"C"))
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
           (riskadj_gross_rel_yr2plus_pv(t+1) + riskadj_gross_rel_yr2plus(t+1))
return
                      * v_month_t[proj_yr];
6.1.1.3.1.31
                 riskadj_re_rel_q1_pv
if (t < commence_period_w || t >= maturity_period_ann || eq(paid_up,"C"))
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return
           (riskadj re rel q1 pv(t+1) + riskadj re rel q1(t+1))
                      * v month t[proj yr];
6.1.1.3.1.32
                 riskadj re rel q2 pv
if (t < commence_period_w || t >= maturity_period_ann || eq(paid_up, "C"))
       return 0.0;
int proj yr = xint(proj year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
           (riskadj_re_rel_q2_pv(t+1) + riskadj_re_rel_q2(t+1))
return
                      * v_month_t[proj_yr];
6.1.1.3.1.33
                 riskadj_re_rel_q3_pv
if (t < commence_period_w || t >= maturity_period_ann || eq(paid_up, "C"))
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj yr = xint(proj year rollup(t+1));
```

```
(riskadj_re_rel_q3_pv(t+1) + riskadj_re_rel_q3(t+1))
return
                      * v_month_t[proj_yr];
6.1.1.3.1.34
                 riskadj_re_rel_q4_pv
if (t < commence period w || t >= maturity period ann || eq(paid up, "C"))
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return
           (riskadj_re_rel_q4_pv(t+1) + riskadj_re_rel_q4(t+1))
                      * v_month_t[proj_yr];
6.1.1.3.1.35
                 riskadj_re_rel_total_pv
if (t < commence_period_w || t >= maturity_period_ann)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
           (riskadj_re_rel_total_pv(t+1) + riskadj_re_rel_total(t+1))
return
                      * v_month_t[proj_yr];
6.1.1.3.1.36
                 riskadj_re_rel_yr2plus_pv
if (t < commence_period_w || t >= maturity_period_ann || eq(paid_up, "C"))
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return
           (riskadj re rel yr2plus pv(t+1) + riskadj re rel yr2plus(t+1))
                      * v month t[proj yr];
6.1.1.3.1.37
                 surv_per_ret
if (t < commence_period_w || t > maturity_period_w)
       return NO_AVG;
if(submodel == "ANN"|| submodel == "TERM")
       return 1:
if(mult_age_ind == 1.){
if(retirement_age_lookup(1) > sm_annuity[sm_annuity.size()-1]->takeup_age)
       return 1.;
return 1. - retirement_prop(t);
}
return 1. - retirement_prop(t);
```

```
6.1.1.3.1.38
                 surv ret
if (t < commence_period_w || t > maturity_period_w)
       return NO AVG;
if (t <= 0 || t > maturity_period_ann)
       return surv_per_ret(t);
return surv_ret(t-1) * surv_per_ret(t);
6.1.1.3.1.39
                 units_at_mat
// Unit value at the end of the period in which the policy matures.
double surr = max(0, sm_accum->claims_surrender(t)) +
                             max(0, sm_acc_pup->claims_surrender(t))+
                             max(0, sm_saving->claims_surrender(t)) +
                             max(0, sm_saving_pup->claims_surrender(t));
double units_at_maturity = max(0.0, life->units_e_bef(t)
                       - life->death_claim_units(t) - surr - life->surr_charge(t));
// if sv is higher than units (because of persistency bonus) then pay sv at maturity
units_at_maturity = max(units_at_maturity, life->surr_value(t) - surr
                                             - life->surr_charge(t));
// deduct surrender penalty from PUP units (the penalty is a result of the change of premium-paying
policies to PUP policies, and is charged when the PUP units are withdrawn, including on maturity)
if (eq(life->ben_class,"profil"))
       units at maturity = units at maturity - acc pup->surr penalty e bef(t);
return units at maturity;
6.1.1.3.1.40
                 reserve
if (t <= commence_period_w || t > maturity_period_ann)
     return 0.0;
if(submodel == "TRAD") {
       if(res_prop_kitzba > 0 && mult_age_ind == 1)
              return trad->reserve(t) + reserve_annuity(t);
       if(t < maturity_period_w)</pre>
              return trad->reserve(t);
       return reserve_basic(t);
       }
if(submodel == "TERM")
       return term->reserve(t);
if(submodel == "ANN")
       return reserve_basic(t);
double multage = sm accum->units e(t) * bonus[prem term]/100.;
if(mult age ind == 1)
       multage = sm annuity->reserve bonus units e t(t);
return reserve_basic(t)
```

```
+ reserve_extra(t)
          + res_ann_deficiency(t)
          + multage; // reserve for bonus held from start
6.1.1.3.1.41
                 reserve_bef_ret
if (t <= commence_period_w || t > maturity_period_ann)
     return 0.0;
if(submodel == "TRAD")
       return trad->reserve(t);
if(submodel == "ANN")
       return reserve_basic_bef_ret(t);
double multage = 0;
if(prem_term >= 0 && prem_term < 1200)</pre>
       multage = sm_accum->units_e(t) * bonus[prem_term]/100.;
if(mult age ind == 1)
       multage = sm_annuity->reserve_bonus_units_e_t(t);
return reserve basic bef ret(t)
          + reserve_extra(t)
          + res_ann_deficiency(t)
          + multage; // reserve for bonus held from start
6.1.1.3.1.42
                 reserve_extra
if (submodel=="TERM")
       return NO_AVG;
if (submodel=="TRAD")
       return trad->reserve_extra(t);
if (t < commence_period_w || t >= maturity_period_w)
     return 0.0;
 // risk reserve
if (eq(ben_class, "adif"))
       return res_perc_prem[1]/100. * (premium_if_b(t) - prem_freq * alloc_units(t));
return 0.0; // *** no URL in model yet
6.1.1.3.1.43
                 ann_cost_pv
if (t < commence_period_w || t >= maturity_period_w)
       return 0.0;
if(!inlist(submodel, "UNIT"))
       return NO_AVG;
if (t == maturity_period_w-1)
       return res_ann_deficiency(t);
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
           ann_cost_pv(t+1)* v_month_t[proj_yr];
return
```

```
6.1.1.3.1.44
                 net_prem_def
if (submodel=="TERM")
       return term->net_prem_deficiency_b(t);
return 0.0;
6.1.1.3.1.45
                 net_premium_e
if (submodel=="TERM")
       return term->net_premium_e(t);
if (submodel=="TRAD")
       return trad->net_premium_e(t);
return 0.0;
6.1.1.3.1.46
                 res_np_deficiency
double res_temp =0.0; //reduced basic reserve;
//Use zeroised negative basic reserve to reduce NP deficiency reserve
if (submodel=="TERM") {
       if (zeroise_res=="Y")
               res_temp = min(0.0,term->reserve_basic(t) );
       return max(0.0,res_temp+term->res_np_deficiency(t));
       }
if (submodel=="TRAD")
       return 0.0;
return 0.0;
6.1.1.3.1.47
                 reserve_annuity
if(res_prop_kitzba > 0.0){
       if(mult_age_ind == 1)
              return sm_annuity->reserve_basic(t);
       return sm_annuity[ann_index_map[takeup_age]]->reserve_basic(t);
return NO_AVG;
6.1.1.3.1.48
                 reserve basic
if (t <= commence_period_w)</pre>
     return 0.0;
if (submodel=="TRAD")
       if(mult_age_ind ==1)
              return trad->reserve_basic(t) + reserve_annuity(t);
if(t < mat_period_min){</pre>
       if (submodel=="TERM") {
               if (zeroise res=="Y")
                      return max(0.0,term->reserve_basic(t) + reserve_claims(t));
               return term->reserve_basic(t)+ reserve_claims(t);
       }
```

```
if (submodel=="TRAD")
               return trad->reserve_basic(t);
return units_e(t);
if(mult_age_ind == 1)
       return units_e(t) + reserve_annuity(t);
return reserve_annuity(t);
                 reserve_basic_bef_ret
6.1.1.3.1.49
if (t <= commence_period_w)</pre>
     return 0.0;
if (submodel=="TRAD")
       if(mult_age_ind ==1)
               return trad->reserve_basic(t);
if(t < mat_period_min)</pre>
       return units e(t);
if(mult_age_ind == 1)
       return units_e(t);
return 0;
6.1.1.3.1.50
                  reserve_basic_gt_su
if(res_prop_kitzba > 0.0){
   if(mult_age_ind == 1)
               return sm_annuity->res_basic_gt_su(t);
   return sm_annuity[ann_index_map[takeup_age]]->res_basic_gt_su(t);
return NO_AVG;
6.1.1.3.1.51
                  reserve_claims
if (t <= commence_period_w || !eq(submodel ,"TERM") )</pre>
     return 0.0;
if(t < maturity_period_w) {</pre>
       return term->reserve_basic_claims(t);
       } //end if TERM
return NO_AVG;
6.1.1.3.1.52
                  reserve_claims_retent
if (t <= commence_period_w || !eq(submodel ,"TERM") )</pre>
     return 0.0;
if(t < maturity_period_w) {</pre>
       return term->reserve_basic_claims(t) * (1 - re_ratio_w);
       } //end if TERM
```

```
return NO_AVG;
6.1.1.3.1.53
                 reserve_risk_premium
if (submodel=="TERM")
       return term->reserve_risk_premium(t);
if (submodel=="TRAD")
       return trad->reserve_risk_premium(t);
return 0.0;
6.1.1.3.1.54
                 ber_retire_rm
if (t < commence_period_w || t > maturity_period_w)
       return 0.0;
double temp = 0.0;
if (v_rm_cumm(t) > 0.0)
       temp = v_rm_cumm(t+12) / v_rm_cumm(t); //Discounting over year
return (ber_retire_rm(t+12) + be_retire(t+12) )
              * temp;
6.1.1.3.1.55
                 capital at risk
if (t < life->commence_period_w || t >= life->maturity_period_w)
       return 0.0;
double retention_rate = 1.0;
if (claims_total(t) > 0)
       retention_rate = 1. - claims_re(t) / claims_total(t);
return max(sum_insured_if_e(t) * retention_rate + cashflow_pv(t), 0);
6.1.1.3.1.56
                 capital_at_risk_rm
if (t < life->commence_period_w || t >= life->maturity_period_w)
       return 0.0;
double temp = 0.0;
if (v rm cumm(t) > 0.0)
       temp = v_rm_cumm(t+12) / v_rm_cumm(t); //Discounting over year
           (capital_at_risk_rm(t+12) + capital_at_risk(t+12))
return
                      * temp;
6.1.1.3.1.57
                 claim_cost_pv_rm
if (t < commence_period_w || t > maturity_period_w)
       return 0.0;
double temp = 0.0;
if (v rm cumm(t) > 0.0)
       temp = v_rm_cumm(t+12) / v_rm_cumm(t); //Discounting over year
```

```
return
           (claim_cost_pv_rm(t+12) + claim_cost_pv(t+12))
                * temp;
6.1.1.3.1.58
                 claim_cost_re_pv_rm
if (t < commence_period_w || t > maturity_period_w || reinsurance=="N" || eq(re_type,"NONE"))
       return 0.0;
double temp = 0.0;
if (v_rm_cumm(t) > 0.0)
       temp = v_rm_cumm(t+12) / v_rm_cumm(t); //Discounting over year
return
           (claim_cost_re_pv_rm(t+12) + claim_cost_re_pv(t+12))
                * temp;
6.1.1.3.1.59
                 claims annuity pv rm
if (t < commence_period_w || t >= t_high-12)
       return 0.0;
double temp = 0.0;
if (v_rm_cumm(t) > 0.0)
       temp = v_rm_cumm(t+12) / v_rm_cumm(t); //Discounting over year
return
           (claims annuity pv rm(t+12) + claims annuity pv(t+12))
6.1.1.3.1.60
                 claims_death_pv_rm
if (t < commence_period_w || t > maturity_period_w)
       return 0.0;
double temp = 0.0;
if (v_rm_cumm(t) > 0.0)
       temp = v_rm_cumm(t+12) / v_rm_cumm(t); //Discounting over year
           (claims_death_pv_rm(t+12) + claims_death_pv(t+12))
return
                * temp;
6.1.1.3.1.61
                 claims_disability_pv_rm
if (t < commence_period_w || t > maturity_period_w)
       return 0.0;
double temp = 0.0;
if (v rm cumm(t) > 0.0)
       temp = v_rm_cumm(t+12) / v_rm_cumm(t); //Discounting over year
return
           (claims_disability_pv_rm(t+12) + claims_disability_pv(t+12))
               * temp;
6.1.1.3.1.62
                 expense_pv_rm
if (t < commence_period_w || t > maturity_period_ann)
```

```
return 0.0;
double temp = 0.0;
if (v_rm_cumm(t) > 0.0)
       temp = v_rm_cumm(t+12) / v_rm_cumm(t); //Discounting over year
return
           (expense_pv_rm(t+12) + expense_pv(t+12))
               * temp;
6.1.1.3.1.63
                 inv income chetz pv rm
if (t < commence_period_w || t > maturity_period_ann)
       return 0.0;
double temp = 0.0;
if (v_rm_cumm(t) > 0.0)
       temp = v_rm_cumm(t+12) / v_rm_cumm(t); //Discounting over year
           (inv_income_chetz_pv_rm(t+12) + investment_income_chetz_pv(t+12))
return
6.1.1.3.1.64
                 profit_book_vif_pv_pos_rm
if (t < commence_period_w || t > maturity_period_w)
       return 0.0;
double temp = 0.0;
if (v rm cumm(t) > 0.0)
       temp = v_rm_cumm(t+12) / v_rm_cumm(t); //Discounting over year
           (profit_book_vif_pv_pos_rm(t+12) + profit_book_vif_pv_pos(t+12))
return
               * temp;
6.1.1.3.1.65
                 rein_claims_pv_rm
if (t < commence_period_w || t > maturity_period_w)
       return 0.0;
double temp = 0.0;
if (v_rm_cumm(t) > 0.0)
       temp = v_rm_cumm(t+12) / v_rm_cumm(t); //Discounting over year
           (rein_claims_pv_rm(t+12) + rein_claims_pv(t+12))
return
               * temp;
6.1.1.3.1.66
                 v_rm_cumm
if (t < commence_period_w || t > maturity_period_ann)
       return 0.0;
if (t <= 0)
       return 1.;
int proj_yr = xint(proj_year(t));
if(eq(projection_type_int, "Rollup"))
```

```
proj_yr = xint(proj_year_rollup(t));
return v_rm_cumm(t-1)
              * v_month_t_rm[proj_yr];
6.1.1.3.1.67
                 bonus_shimur
if (inlist(submodel, "TERM, ANN, TRAD"))
       return NO_AVG;
return units_bon(t); //Adif only
6.1.1.3.1.68
                 cashflow_b_post_ret
if (t < commence_period_w || t > maturity_period_ann)
       return 0.0;
if (submodel == "TERM")
       return 0.0;
return sm_annuity->cashflow_b_post_ret(t);
6.1.1.3.1.69
                 cashflow_pv_active
if (t < commence_period_w || t > maturity_period_ann)
       return 0.0;
//if (mult age ind !=1)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return (cashflow_pv_active(t+1) + cashflow_e(t+1))* v_month_t[proj_yr]
              + cashflow b bef ret(t+1);
6.1.1.3.1.70
                 cashflow_pv_active_chetz
if (t < commence_period_w || t > maturity_period_ann || free_inv_prop_t[1] >= 1.)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection type int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return cashflow_pv_res_active(t)*max_chetz + cashflow_pv_ifrs_active(t)*(1-max_chetz);
6.1.1.3.1.71
                 cashflow_pv_active_e
if (t < commence_period_w || t > maturity_period_ann)
       return 0.0;
//if (mult_age_ind !=1)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj yr = xint(proj year rollup(t+1));
```

```
return (cashflow_pv_active_e(t+1) + cashflow_e(t+1) + cashflow_b_bef_ret(t+1))* v_month_t[proj_yr];
6.1.1.3.1.72
                 cashflow pv deferred
if (t < commence_period_w || t > maturity_period_ann)
       return 0.0;
if (mult_age_ind !=1)
       return 0.0;
double new_ret = 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
if(ann_index_map.count(retirement_age_lookup(t)) != 0){
       if(t == sm_annuity[ann_index_map[retirement_age_lookup(t)]]->maturity_period_w)
              new_ret = sm_annuity[ann_index_map[retirement_age_lookup(t)]]->cashflow_pv(t);
}
return cashflow_pv_deferred(t+1) * v_month_t[proj_yr] + new_ret;
6.1.1.3.1.73
                 cashflow_pv_deferred_chetz
if (t < commence period w || t > maturity period ann)
       return 0.0;
if (mult age ind !=1)
       return 0.0;
return cashflow_pv_deferred_chetz_ifrs(t) + cashflow_pv_deferred_chetz_res(t);
6.1.1.3.1.74
                 cashflow_pv_deferred_chetz_ifrs
if (t < commence period w || t > maturity period ann)
       return 0.0:
if (mult_age_ind !=1)
       return 0.0;
double new_ret = 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
if(ann_index_map.count(retirement_age_lookup(t)) != 0){
       if(t == sm_annuity[ann_index_map[retirement_age_lookup(t)]]->maturity_period_w)
              new_ret = sm_annuity[ann_index_map[retirement_age_lookup(t)]]-
>cashflow_pv_ifrs(t)*(1-max_chetz);
}
return cashflow_pv_deferred_chetz_ifrs(t+1) * v_month_t_ifrs[proj_yr] + new_ret;
```

```
6.1.1.3.1.75
                 cashflow_pv_deferred_chetz_res
if (t < commence_period_w || t > maturity_period_ann)
       return 0.0;
if (mult_age_ind !=1)
       return 0.0;
double new_ret = 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
if(ann_index_map.count(retirement_age_lookup(t)) != 0){
       if(t == sm_annuity[ann_index_map[retirement_age_lookup(t)]]->maturity_period_w)
              new_ret = sm_annuity[ann_index_map[retirement_age_lookup(t)]]-
>cashflow_pv_res(t)*max_chetz;
}
return cashflow_pv_deferred_chetz_res(t+1) * v_month_t_int_res + new_ret;
6.1.1.3.1.76
                 cashflow_pv_deferred_e
if (t < commence_period_w || t > maturity_period_ann)
       return 0.0;
if (mult age ind !=1)
       return 0.0;
double new ret = 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
if(ann_index_map.count(retirement_age_lookup(t)) != 0){
       if(t == sm\_annuity[ann\_index\_map[retirement\_age\_lookup(t)]] -> maturity\_period\_w)
              new_ret = sm_annuity[ann_index_map[retirement_age_lookup(t)]]->cashflow_pv_e(t);
}
return (cashflow_pv_deferred_e(t+1)) * v_month_t[proj_yr] + new_ret;
6.1.1.3.1.77
                 cashflow_pv_ifrs
if (t < commence_period_w || t > maturity_period_ann || free_inv_prop_t[1] >= 1.)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
if ( t > maturity_period_w)
```

```
return (cashflow_pv_ifrs(t+1) + cashflow_e(t+1))* ann_v_month_t_ifrs[proj_yr]
              + cashflow_b(t+1);
else
       return (cashflow_pv_ifrs(t+1) + cashflow_e(t+1))* v_month_t_ifrs[proj_yr]
              + cashflow_b(t+1);
6.1.1.3.1.78
                 cashflow pv ifrs active
if (t < commence_period_w || t > maturity_period_ann || free_inv_prop_t[1] >= 1.)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
       return (cashflow_pv_ifrs_active(t+1) + cashflow_e(t+1))* v_month_t_ifrs[proj_yr]
              + cashflow b bef ret(t+1);
6.1.1.3.1.79
                 cashflow_pv_res
if (t < commence period w | | t > maturity period ann | | free inv prop t[1] >= 1.)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return (cashflow_pv_res(t+1) + cashflow_e(t+1))* v_month_t_int_res
              + cashflow_b(t+1);
6.1.1.3.1.80
                 cashflow_pv_res_active
if (t < commence_period_w || t > maturity_period_ann || free_inv_prop_t[1] >= 1.)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return (cashflow_pv_res_active(t+1) + cashflow_e(t+1))* v_month_t_int_res
              + cashflow_b_bef_ret(t+1);
6.1.1.3.1.81
                 cashflow re pv
if (t < commence_period_w || t >= maturity_period_ann)
       return 0.0;
```

```
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
if (t > maturity_period_w)
       return (cashflow_re_pv(t+1) +cashflow_re_e(t+1)) * ann_v_month_t[proj_yr] +
cashflow_re_b(t+1);
else
       return \ (cashflow\_re\_pv(t+1) \ + cashflow\_re\_e(t+1)) \ * \ v\_month\_t[proj\_yr] \ + \ cashflow\_re\_b(t+1);
6.1.1.3.1.82
                 claims annuity gt
if(t <= mat_period_min || t > maturity_period_ann || eq(submodel, "TERM"))
       return NO_AVG;
return max(claims_annuity(t) - claims_annuity_nogt(t), 0);
6.1.1.3.1.83
                 claims_insurance
if(submodel == "TRAD")
       return trad->claims_death(t);
if(submodel == "TERM")
       return term->claims_total(t);
return death_claim_si(t); //For adif/profil
6.1.1.3.1.84
                 comm hekef net
return comm_hekef(t) - comm_clawback(t);
6.1.1.3.1.85
                 comm_profit
if (t <= commence_period_w || t >maturity_period_w)
       return 0.0;
if (comm prof==0)
       return 0.0;
if (t + elapsed_months <= (comm_renewal_year-1)*12)</pre>
       return 0.0;
                      premium_gross(t)
       return
               * comm_prof/ 100.
               * (1+vat/100.);
6.1.1.3.1.86
                 comm_reg
return comm_nihul(t) +
               comm_regular(t) +
               comm_renewal(t) +
               comm_reg_riders_out(t);
6.1.1.3.1.87
                 coverage_units
double DF = 1.;
if (cu_discounted == "Y")
       DF = discount_factor_acc(t);
```

```
if(eq(submodel, "TERM")){
return profit_weighting * service_units(t) * DF;
return (profit_weighting * service_units(t) + claims_annuity_nogt(t)) * DF;
6.1.1.3.1.88
                 coverage_units_re
if (cu_discounted == "Y")
       return profit_weighting_re * service_units(t) * discount_factor_acc(t);
return profit_weighting_re * service_units(t);
6.1.1.3.1.89
                 expense_clm
return expense_ren_perc_ann(t) + expense_claims(t);
6.1.1.3.1.90
                 expense init
return expense_initial_fix(t) + expense_initial_perc(t);
6.1.1.3.1.91
                 expense pv active
if (t < commence_period_w || t >= maturity_period_ann)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return expense_pv_active(t+1) * v_month_t[proj_yr]
              + expense_total_pre_ret(t+1);
6.1.1.3.1.92
                 expense_pv_active_no_inv
if (t < commence_period_w || t >= maturity_period_ann)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return expense_pv_active_no_inv(t+1) * v_month_t[proj_yr]
              + expense_total_pre_ret_no_inv(t+1);
6.1.1.3.1.93
                 expense_pv_deferred
if (t < commence_period_w || t >= maturity_period_ann || mult_age_ind !=1)
       return 0.0;
double new_ret = 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
if(ann_index_map.count(retirement_age_lookup(t)) != 0){
       if(t == sm_annuity[ann_index_map[retirement_age_lookup(t)]]->maturity_period_w)
```

```
new_ret = sm_annuity[ann_index_map[retirement_age_lookup(t)]]-
>expense_ren_perc_post_ret_pv(t);
}
return expense_pv_deferred(t+1) * v_month_t[proj_yr] + new_ret;
6.1.1.3.1.94
                 expense_ren
return expense_ren_perc(t) - expense_ren_perc_ann(t)
              + expense_ren_charge(t)
              + expense_ren_fix(t)
              + comm_supervisor(t)
              - comm_claw_spv(t);
6.1.1.3.1.95
                 expense_var_pv_active
if (t < commence_period_w || t >= maturity_period_ann || mult_age_ind !=1)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return expense_var_pv_active(t+1) * v_month_t[proj_yr]
              + expense_initial_perc(t+1)
              + expense_ren_perc_bef_ret(t+1)
              + expense_ren_charge(t+1);
6.1.1.3.1.96
                 fvui
if (t < commence_period_w || t > maturity_period_ann)
       return 0.0;
if (eq(savings_pol_prod_code, "Y"))
return claims_annuity_pv(t) + claims_maturity_pv(t) + claims_surrender_pv(t) - prem_savings_pv(t) +
management_fee_pv(t);
return 0.0;
6.1.1.3.1.97
                 int cred
if(submodel == "ANN" || submodel=="TERM")
       return NO_AVG;
if(submodel == "UNIT")
       return interest_units_e(t);
//Klasi
if(!eq(par_nonpar, "N")) //Participating
       return trad->int_cred(t) + trad->int_cred_pup(t) + trad->int_cred_mat(t); //Already
calculated for bonus
//Guaranteed rate
if (t < mat period original) //When there is reserve
       return
              trad->int_rate_res_mthly //Guaranteed rate
              * (trad->reserve_basic_prem_if(t-1)
                      * surv_per_act_bal_bef_ret(t) //Surviving active reserve
```

```
trad->reserve_basic_pup(t)
                      * (1.- trad->death_rate(t))
                      * (1. - lapse_rate_pup_bal(t))//Surviving pup reserve
//Guaranteed after maturity period
return trad->int_post_mat(t)
              (trad->surr_value(t-1)
              * surv_act_post_ret(t) //Surviving active surrender value
              + trad->surr_value_pup(t)
              * surv_pup_post_ret(t)
              );
6.1.1.3.1.98
                 investment_income_chetz_pv_deferred
if (t < commence_period_w || t >= maturity_period_ann || mult_age_ind !=1 || free_inv_prop_t[1] >=
1.)
       return 0.0;
double new_ret = 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
if(ann_index_map.count(retirement_age_lookup(t)) != 0){
       if(t == sm_annuity[ann_index_map[retirement_age_lookup(t)]]->maturity_period_w)
              new_ret = sm_annuity[ann_index_map[retirement_age_lookup(t)]]-
>investment_income_chetz_pv(t);
}
return investment_income_chetz_pv_deferred(t+1) * v_month_t[proj_yr] + new_ret;
6.1.1.3.1.99
                 investment_income_chetz_pv_inpay
if (t < commence_period_w || t > maturity_period_ann || mult_age_ind != 1 || free_inv_prop_t[1] >=
1.)
       return 0.0;
double ann_in_pay = 0;
for (int i=0; i < sm_annuity.size(); i++){</pre>
       if(t > sm_annuity[i]->maturity_period_w)
              ann_in_pay = ann_in_pay + sm_annuity[i]->investment_income_chetz_pv(t);
}
return ann_in_pay;
6.1.1.3.1.100
                 investment_income_pv_active
if (t < commence_period_w || t >= maturity_period_ann)
       return 0.0;
```

```
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return (investment_income_pv_active(t+1)
              + investment_income_bef_ret(t+1) )
              * v_month_t[proj_yr];
6.1.1.3.1.101
                investment_income_pv_deferred
if (t < commence_period_w || t >= maturity_period_ann || mult_age_ind !=1)
       return 0.0;
double new_ret = 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
if(ann_index_map.count(retirement_age_lookup(t)) != 0){
       if(t == sm_annuity[ann_index_map[retirement_age_lookup(t)]]->maturity_period_w)
              new_ret = sm_annuity[ann_index_map[retirement_age_lookup(t)]]-
>investment income pv(t);
}
return investment_income_pv_deferred(t+1) * v_month_t[proj_yr] + new_ret;
6.1.1.3.1.102
                mgt_fees_prem
if (!eq(ben class, "profil"))
       return 0.0;
return max(premium_gross(t) - alloc_units(t), 0);
6.1.1.3.1.103
                 outgo_pv_active
if (t < commence_period_w || t >= maturity_period_ann || mult_age_ind !=1)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return (outgo_pv_active(t+1)
              + outgo_e(t+1) )
              * v_month_t[proj_yr]
              + outgo_b_before_ret(t+1);
6.1.1.3.1.104
                outgo_pv_deferred
if (t < commence_period_w || t >= maturity_period_ann || mult_age_ind !=1)
       return 0.0;
double new_ret = 0.0;
int proj_yr = xint(proj_year(t+1));
```

```
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
if(ann_index_map.count(retirement_age_lookup(t)) != 0){
       if(t == sm_annuity[ann_index_map[retirement_age_lookup(t)]]->maturity_period_w)
              new_ret = sm_annuity[ann_index_map[retirement_age_lookup(t)]]-
>outgo_b_post_ret_pv(t);
}
return outgo_pv_deferred(t+1) * v_month_t[proj_yr] + new_ret;
6.1.1.3.1.105
                 prem insurance
if(submodel == "ANN")
       return NO_AVG;
if (submodel=="TERM")
       return premium_gross(t);
if (submodel=="TRAD")
       return 0.0;
if (eq(ben_class, "profil"))
       return cover_charge(t);
if (eq(ben_class, "adif"))
       return premium_gross(t) - alloc_units(t);
return 0.0; //Should not get here
6.1.1.3.1.106
                 prem_savings
if(submodel == "ANN" || submodel=="TERM")
       return NO_AVG;
if (submodel=="TRAD")
       return premium_gross(t);
if (eq(ben_class, "profil"))
       return premium_gross(t) - cover_charge(t);
if (eq(ben_class, "adif"))
       return alloc_units(t);
return 0.0; //Should not get here
6.1.1.3.1.107
                 profit_book_pv_active
if (t < commence_period_w || t >= maturity_period_ann || mult_age_ind !=1)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return (profit_book_pv_active(t+1)
```

```
+ profit_book_bef_ret(t+1) )
              * v_month_t[proj_yr];
6.1.1.3.1.108
                 profit_book_pv_deferred
if (t < commence period w || t >= maturity period ann || mult age ind !=1)
       return 0.0:
double new_ret = 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
if(ann_index_map.count(retirement_age_lookup(t)) != 0){
       if(t == sm_annuity[ann_index_map[retirement_age_lookup(t)]]->maturity_period_w)
              new_ret = sm_annuity[ann_index_map[retirement_age_lookup(t)]]->profit_book_pv(t);
}
return profit_book_pv_deferred(t+1) * v_month_t[proj_yr] + new_ret;
6.1.1.3.1.109
                 profit_book_vif_gross_pv_active
if (t < commence_period_w || t >= maturity_period_ann || mult_age_ind !=1)
       return 0.0;
double vif gross pre ret = cashflow e(t+1)
                                                  + cashflow b bef ret(t+1)
                                                  + investment income bef ret(t+1)
                                                   - reserve increase bef ret(t+1)
                                                  + cashflow_re_b(t+1)
                                                  + cashflow_re_e(t+1);
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return (profit_book_vif_gross_pv_active(t+1)
              + vif_gross_pre_ret)
              * v_month_t[proj_yr];
6.1.1.3.1.110
                 profit_book_vif_pv_active
if (t < commence_period_w || t >= maturity_period_ann || mult_age_ind !=1)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return (profit_book_vif_pv_active(t+1)
              + profit_book_vif_bef_ret(t+1) )
              * v_month_t[proj_yr];
6.1.1.3.1.111
                 profit_book_vif_pv_deferred
if (t < commence_period_w || t >= maturity_period_ann || mult_age_ind !=1)
       return 0.0;
```

```
double new_ret = 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
if(ann_index_map.count(retirement_age_lookup(t)) != 0){
       if(t == sm_annuity[ann_index_map[retirement_age_lookup(t)]]->maturity_period_w)
              new_ret = sm_annuity[ann_index_map[retirement_age_lookup(t)]]-
>profit_book_vif_post_ret_pv(t);
return profit_book_vif_pv_deferred(t+1) * v_month_t[proj_yr] + new_ret;
6.1.1.3.1.112
                 profit_gross_vif_pv_active
if (t < commence_period_w || t >= maturity_period_ann || mult_age_ind !=1)
       return 0.0;
double vif_gross_pre_ret = (cashflow_e(t+1)
                                                   + cashflow_b_bef_ret(t+1)
                                                   + investment_income_bef_ret(t+1)
                                                   - reserve increase bef ret(t+1)
                                                   + cashflow_re_b(t+1)
                                                   + cashflow re e(t+1) )
                                                   * (1 - tax_rate/ 100.);
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return (profit_gross_vif_pv_active(t+1)
              + vif_gross_pre_ret)
              * v_month_t[proj_yr];
6.1.1.3.1.113
                 profit_net_vif_pv_active
if (t < commence_period_w || t >= maturity_period_ann || mult_age_ind !=1)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return (profit_net_vif_pv_active(t+1)
              + profit_book_vif_bef_ret(t+1)* (1- tax_rate/ 100.) )
              * v_month_t[proj_yr];
6.1.1.3.1.114
                 profit_net_vif_pv_deferred
if (t < commence_period_w || t >= maturity_period_ann || mult_age_ind !=1)
       return 0.0;
double new ret = 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
```

```
proj_yr = xint(proj_year_rollup(t+1));
if(ann_index_map.count(retirement_age_lookup(t)) != 0){
       if(t == sm_annuity[ann_index_map[retirement_age_lookup(t)]]->maturity_period_w)
              new_ret = sm_annuity[ann_index_map[retirement_age_lookup(t)]]-
>profit_net_vif_post_ret_pv(t);
}
return profit_net_vif_pv_deferred(t+1) * v_month_t[proj_yr] + new_ret;
6.1.1.3.1.115
                 reserve_increase_pv_active
if (t < commence_period_w || t >= maturity_period_ann)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return (reserve_increase_pv_active(t+1)
              + reserve_increase_bef_ret(t+1) )
              * v_month_t[proj_yr];
6.1.1.3.1.116
                 reserve_increase_pv_deferred
if (t < commence_period_w || t >= maturity_period_ann || mult_age_ind !=1)
       return 0.0;
double new_ret = 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
if(ann_index_map.count(retirement_age_lookup(t)) != 0){
       if(t == sm_annuity[ann_index_map[retirement_age_lookup(t)]]->maturity_period_w)
              new_ret = sm_annuity[ann_index_map[retirement_age_lookup(t)]]-
>reserve_increase_pv(t);
}
return reserve_increase_pv_deferred(t+1) * v_month_t[proj_yr] + new_ret;
6.1.1.3.1.117
                 reserve pv
if (t < commence_period_w || t >= maturity_period_ann)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return (reserve_pv(t+1) + reserve(t+1))
                      * v_month_t[proj_yr];
```

6.1.1.3.1.118 rid_cashflow_pv

```
if (!eq(ben_class, "profil") || riders_count_w <= 0)</pre>
       return 0.0;
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
double cf_b = 0;
double cf_e = 0;
xstring key_temp;
//For profil, all reinsurance is from riders
cf_b = cover_charge(t+1)
               + comm_re(t+1)
               + comm_re_prof(t+1) //No reinsurance reserve for UNIT
               - premium_re(t+1);
double comm hek = 0.0;
if ((elapsed months + elapsed months extra) <= 12){</pre>
       if ( eq(paid_up, "Y"))
               comm_hek = cover_charge(1) * comm_hekef_pc_rider /100;
       else {
               double comm_temp_pc = comm_hekef_pc_rider/100.;
               double temp_surv = 1.;
               if (surv_act_prm(1)> 0.00001)
                      temp_surv = surv_act_prm(1);
               comm_hek = (cover_charge(1)*surv_act_prm(1 - elapsed_months -
elapsed_months_extra)/temp_surv)*prem_freq * comm_temp_pc;
       }
double comm_claw = 0.0;
if (t+1+elapsed months-1+elapsed months extra <=180){</pre>
       if(eq(paid_up, "Y"))
       {
               double temp = surv_pup_prm(t-1) * lapse_rate_pup_prm(t);
               if (temp != 0)
                      comm_claw = comm_claw_prpn_hekef[t+elapsed_months-1+elapsed_months_extra]
                                             / 100.
                                             * comm_hek
                                             * temp / surv_prm(commence_period_w);
       }
       else{
               double temp = surv_act_prm(t-1) * (lapse_rate_act_prm_dep(t) + pup_rate_prm_dep(t));
               if (temp != 0)
```

```
comm_claw = comm_claw_prpn_hekef[t+elapsed_months-1+elapsed_months_extra] /
100.
                                            * comm_hek
                                            * temp / surv_prm(commence_period_w);
       }
}
cf_b = cf_b - comm_hek - comm_reg_riders_out(t+1) + comm_claw;
double exp_tot = expense_ren_charge(t+1);
if (t+1 + elapsed_months +elapsed_months_extra == 1) {
       double profil risk init exps = 0.0;
       double margin = 0.;
       if(margin_add=="Y")
               margin = margin_exp_ini_pc;
               for (int i=0; i < riders_count_w; i++) {</pre>
                      rider_tarif_row_key=xstring(tarif_rider[i]);
                      prod_code_rider = rider_tarif_tbl;
                      key_temp =prod_assumpt_rider_exp_tbl;
                      exp_row_key=key_temp+"_"+company+"_"+pol_type_expenses;
                      exp_col_key="I_PREM";
                      profil_risk_init_exps = profil_risk_init_exps +
                              (sm_riders[i]->prem_cover/12.) * 12 *
                              exp_initial_extra_perc_charge[i] / 100. * surv_act_prm(t);
                      }
       exp_tot = exp_tot + profil_risk_init_exps * (1. + margin/100.);
}
cf b = cf b - exp tot;
cf_e = claims_re(t+1) - death_claim_si(t+1);
int proj_yr = xint(proj_year(t+2));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+2));
return (rid_cashflow_pv(t+1) + cf_e) * v_month_t[proj_yr] + cf_b;
6.1.1.3.1.119
                 service_units
if (t <= commence_period_w || t > life->maturity_period_ann )
       return 0.0;
if(eq(paid_up,"C"))
       return 0.0;
if(eq(ben_class, "phi"))
       return term->sum_insured_if_b(t) * serv_units_dur;
```

```
if(eq(submodel, "TERM")){ //Risk
       if(eq(ben_class, "dd") || eq(ben_class, "accdis") || eq(ben_class, "tpd") || eq(ben_class,
"ltc"))
                      return term->sum_insured_if_b_no_dec(t) + term->sum_insured_if_b_2_no_dec(t);
               else
                      return term->sum_insured_if_b_no_dth(t);
}
if(mult_age_ind !=1){
       if( t >= maturity_period_w)
        return reserve_basic_gt_su(t); // currently not relevant as all policies that are not
multi-age, res_kiz equal zero therefore no claims annuity
       else
               return surr_value(t);
 } //Not multi-age retirement
return surr_value(t) + reserve_basic_gt_su(t); //Only claims currently in payment
6.1.1.3.1.120
                 service_units_pv
if (t < commence_period_w || t > maturity_period_ann)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
           (\texttt{service\_units\_pv}(\texttt{t+1}) + \texttt{service\_units}(\texttt{t+1}))
return
                * v_month_t[proj_yr];
6.1.1.3.1.121
                 units_for_takeup
if(t > maturity_period_ann)
       return NO_AVG;
if(!inlist(submodel,"UNIT,TRAD") || res_prop_kitzba <= 0.0)</pre>
       return NO_AVG;
if(mult_age_ind == 1)
       return sm_annuity->units_for_takeup(t);
return sm_annuity[ann_index_map[takeup_age]]->units_for_takeup(t);
6.1.1.3.1.122
                 income b
return premium_gross(t)
          + comm re(t)
          + comm_re_prof(t);
6.1.1.3.1.123
                 income_e
if (eq(projection_type, "Rollup") && t==0)
       return claims_re(t) + premium_nb_sp;
```

```
return claims_re(t);
6.1.1.3.1.124
                 income_pv
if (t < commence_period_w || t >= maturity_period_ann)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
if ( t > maturity_period_w)
       return (income_pv(t+1) + income_e(t+1)) * ann_v_month_t[proj_yr] + income_b(t+1);
else
       return (income_pv(t+1) + income_e(t+1)) * v_month_t[proj_yr] + income_b(t+1);
6.1.1.3.1.125
                 charges_premium
if (!eq(submodel, "UNIT"))
       return 0.0;
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
return premium_gross(t) - alloc_units(t);
6.1.1.3.1.126
                 charges premium pv
if (t < commence_period_w || t > maturity_period_w)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return
           charges_premium_pv(t+1)* v_month_t[proj_yr]
         + charges_premium(t+1);
6.1.1.3.1.127
                 cover_charge
if(submodel != "UNIT")
       return NO_AVG;
if (t <= 0 | | t > maturity period w) // commence period w
       return 0.0;
if (!eq(ben_class,"profil"))
       return 0.;
if (t<0)
       return 0;
return rider_perc_allowed(t) / 100.
       * charge_amount_tt.sum_of_row(t) * surv_act_prm(t-1);
6.1.1.3.1.128
                 cover_charge_pv
if (t < commence_period_w || t > maturity_period_w)
       return 0.0;
```

```
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return
           cover_charge_pv(t+1)* v_month_t[proj_yr]
         + cover_charge(t+1);
6.1.1.3.1.129
                 management_fee_pv
if (t < commence_period_w || t > maturity_period_ann)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
if(mult_age_ind != 1)
       return
                  (management_fee_pv(t+1) + management_fees(t+1)) * v_month_t[proj_yr];
//multi-age retirement
return manage_fees_fixe_active_pv(t)
              + manage fees var active pv(t)
              + manage_fees_fixed_ann_pv_def(t)
              + manage_fees_fixed_ann_pv_ip(t)
              + manage_fees_var_ann_pv_def(t)
              + manage_fees_var_ann_pv_ip(t);
6.1.1.3.1.130
                 management fees
return management fees fixed active(t)
         + management fees fixed ann(t)
         + management_fees_var_active(t)
         + management_fees_var_ann(t);
6.1.1.3.1.131
                 mgt_var_no_bor
if (t <= 0 || t > maturity_period_w || mgt_fee_variable == 0 || submodel != "UNIT" || par_nonpar !=
"P")
       return 0.0;
if (net_interest_rate(t) > 0.0)
return net_interest_rate(t)
                             * (sm_accum->units_b(t) + sm_saving->units_b(t) )
                             * mgt_fee_variable/100.;
return 0.0;
6.1.1.3.1.132
                 mgt_var_no_bor_pup
if (t <= 0 || t > maturity_period_w || mgt_fee_variable == 0 || submodel != "UNIT" || par_nonpar !=
       return 0.0;
if (net interest rate(t) > 0.0)
```

```
return net_interest_rate(t)
                             * (sm_acc_pup->units_b(t) + sm_saving_pup->units_b(t) )
                             * mgt_fee_variable/100.;
return 0.0;
6.1.1.3.1.133
                 surr_charge
return sm_accum->surr_charge(t) +
          sm_acc_pup->surr_charge(t)+
          sm_saving->surr_charge(t) +
          sm_saving_pup->surr_charge(t);
6.1.1.3.1.134
                 investment_income
if (t <= commence_period_w || t > maturity_period_ann)
       return 0.0;
int proj_yr = xint(proj_year(t));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t));
double temp_inv_rate = 0.0;
double temp_ann_inv_rate = 0.0;
double invinc_chetz = 0.0;
double Cal_yr_mth=100*cal_year(t) +cal_month(t);
if (margin add asset == "Y" && t == 1 && submodel != "TERM" && par nonpar == "P"){
        temp inv rate = asset shock;
        temp_ann_inv_rate = asset_shock;
        }
else{
       if (free_inv_prop_t[0] < 1.0 && chetz_be_ind == "Y" && Cal_yr_mth>=chetz_be_ind_yrs) {
              temp_inv_rate = inv_rate_rf_mth_t[proj_yr];
              temp_ann_inv_rate = ann_inv_rate_rf_mth_t[proj_yr];
              if(mult_age_ind == 1)
                      invinc_chetz = investment_income_chetz_bef_ret(t);
              else
                      invinc_chetz = investment_income_chetz(t);
       }
       else {
              temp_inv_rate = inv_rate_mth_t[proj_yr];
              temp_ann_inv_rate = ann_inv_rate_mth_t[proj_yr];
       }
}
if(mult age ind == 1)
       return sm annuity->investment income(t) + temp inv rate * (reserve bef ret(t-1) +
cashflow_b_bef_ret(t)) + invinc_chetz;
if(t > maturity period w)
       return temp_ann_inv_rate* (reserve(t-1) + cashflow_b(t)) + invinc_chetz;
else
       return temp_inv_rate
                      * (reserve(t-1) + cashflow_b(t)) + invinc_chetz;
```

6.1.1.3.1.135 investment_income_bef_ret

```
if (t <= commence_period_w || t > maturity_period_ann || eq(paid up, "G"))
       return 0.0;
int proj_yr = xint(proj_year(t));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t));
double temp_inv_rate_m = 0.0;
double invinc_chetz = 0.0;
double Cal_yr_mth=100*cal_year(t) +cal_month(t);
if (margin_add_asset == "Y" && t == 1 && submodel != "TERM" && par_nonpar == "P")
       temp_inv_rate_m = asset_shock;
else
       if (free_inv_prop_t[0] < 1.0 && chetz_be_ind == "Y" && Cal_yr_mth>=chetz_be_ind_yrs) {
              temp_inv_rate_m = inv_rate_rf_mth_t[proj_yr];
              invinc_chetz = investment_income_chetz_bef_ret(t); }
       else temp inv rate m = inv rate mth t[proj yr];
if(mult age ind == 1)
       return temp_inv_rate_m * (reserve_bef_ret(t-1) + cashflow_b_bef_ret(t)) + invinc_chetz;
return investment_income(t);
//return 0.0; //Unconditional return
6.1.1.3.1.136
                 investment_income_chetz
if (t <= commence_period_w || t > maturity_period_ann || free_inv_prop_t[1] >= 1.)
       return 0.0;
int proj_yr = xint(proj_year(t));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t));
double temp_inv_rate = 0.0;
double temp ann inv rate = 0.0;
if (margin add asset == "Y" && t == 1 && submodel != "TERM" && par nonpar == "P"){
        temp inv rate = asset shock;
        temp_ann_inv_rate = asset_shock;
        }
else{
       temp_inv_rate = inv_rate_mth_t[proj_yr];
       temp_ann_inv_rate = ann_inv_rate_mth_t[proj_yr];
       }
if (proj_yr == 0 && eq(projection_type_int, "Rollup") && dump_vars == "Y"){
       double free = free_inv_prop_t[cal_year(t) - valn_year];
       log_strm<<"Inv rate at time "<<t<<": "<<temp_inv_rate<<endl;</pre>
```

```
log_strm<<"Rollup rate at time "<<t<<": "<<inv_rate_rollup<<endl;</pre>
       log_strm<<"Free rate at time "<<t<<": "<<inv_rate_rf_mth_t[proj_yr]<<endl;</pre>
       log_strm<<"Guaranteed rate at time "<<t<": "<<invinc<<endl;</pre>
       log_strm<<"Free inv rate at time "<<t<<": "<<free<<endl;</pre>
       log_strm<<"Free inv rate by proj_year at time "<<t<<": "<<free_inv_prop_t[proj_yr]<<endl;</pre>
       }
double temp_reserve_pre=0;
double temp_reserve_all=0;
double FORCE_CALC=0;
double Cal yr mth=100*cal year(t) +cal month(t);
if (chetz_be_ind == "Y" && Cal_yr_mth>=chetz_be_ind_yrs){
       temp reserve all=-cashflow pv chetz(t-1);
       temp reserve pre=-(cashflow pv active chetz(t-1)+cashflow pv deferred chetz(t-1) -
riskadj_gross(t-1));}
               else{
                      temp reserve all=reserve(t-1) + cashflow b(t);
                      temp_reserve_pre=reserve_bef_ret(t-1) + cashflow_b_bef_ret(t);
                      FORCE CALC=-cashflow pv chetz(t-1);
if(mult_age_ind == 1)
       return sm_annuity->investment_income_chetz(t) + (temp_inv_rate -inv_rate_rf_mth_t[proj_yr])
* (temp_reserve_pre);
if ( t > maturity_period_w)
                   (temp_ann_inv_rate -ann_inv_rate_rf_mth_t[proj_yr]) * (temp_reserve_all);
           (temp_inv_rate -inv_rate_rf_mth_t[proj_yr]) * (temp_reserve_all);
return
6.1.1.3.1.137
                 units_e_piz_int_active
// מצטברת תשואה כולל - פיצוים צבירה על תקופתי תשואה
if (t <= commence_period_w || t >= maturity_period_ann)
       return 0.0;
if(submodel != "UNIT" || eq(ben_class, "profil") || par_nonpar == "N" || paid_up == "Y")
       return NO AVG;
if (t == 0)
       return 0.0;
double piz = units e piz int active(t-1);
//Pup to deduct
double new_pup = 0;
if (sm_accum->units_e(t-1) + sm_saving->units_e(t-1) > 0)
       new_pup = (
                              units_b_bef_pup_acc(t) * (1. - sm_accum-
>surr_chg_perc_units[t+elapsed_months]/100.)
                              + units_b_bef_pup_sav(t) * (1. - sm_saving-
>surr_chg_perc_units[t+elapsed_months]/100.)
                              )
                              * piz
```

```
/ (sm_accum->units_e(t-1) + sm_saving->units_e(t-1));
piz = piz - new_pup + int_units_piz_active(t);
//Decrements
double decrements = 0.0;
if ((sm_accum->units_e_bef(t) + sm_saving->units_e_bef(t)) > 0)
       decrements = (sm_accum->death_claims_units(t) + sm_saving->death_claims_units(t)
                                    + sm_accum->claims_surrender(t) + sm_saving-
>claims surrender(t)
                                     - units_bon(t) * lapse_rate_act_bal(t)
                                    + sm_accum->surr_charge(t) + sm_saving->surr_charge(t)
                                    piz
                                     / (sm_accum->units_e_bef(t) + sm_saving->units_e_bef(t));
piz = piz - decrements;
              piz * surv_per_ret(t),
return min(
                             units_e(t));//Final cannot be greater than units
6.1.1.3.1.138
                 units_e_piz_int_pup
if (t <= commence_period_w || t >= maturity_period_ann)
       return 0.0;
if(submodel != "UNIT" || eq(ben_class, "profil") || par_nonpar == "N" || paid_up == "Y")
       return NO_AVG;
if (t == 0)
       return 0.0;
double piz = units_e_piz_int_pup(t-1);
double new_pup = 0.0;
if (sm_accum->units_e(t-1) + sm_saving->units_e(t-1) > 0)
       new pup = (
                             units_b_bef_pup_acc(t) * (1. - sm_accum-
>surr_chg_perc_units[t+elapsed_months]/100.)
                             + units_b_bef_pup_sav(t) * (1. - sm_saving-
>surr_chg_perc_units[t+elapsed_months]/100.)
                             * units_e_piz_int_active(t-1)
                             / (sm_accum->units_e(t-1) + sm_saving->units_e(t-1));
piz = piz + new_pup + int_units_piz_pup(t);
//Decrements
double decrements = 0.0;
if (units_e_bef(t) > 0)
       decrements = (sm_accum->death_claims_units(t) + sm_saving->death_claims_units(t)
                                            + sm_acc_pup->death_claims_units(t) + sm_saving_pup-
>death_claims_units(t)
```

```
+ sm_accum->claims_surrender(t) + sm_saving-
>claims_surrender(t)
                                            + sm_acc_pup->claims_surrender(t) + sm_saving_pup-
>claims_surrender(t)
                                            - units_bon(t) * lapse_rate_act_bal(t)
                                            + surr_charge(t)
                                    piz
                                    / units_e_bef(t);
piz = piz - decrements;
return min(
              piz * surv_per_ret(t),
                             units_e(t));//Final cannot be greater than units
6.1.1.3.1.139
                 be_reserve
if (t <= commence_period_w || t > maturity_period_ann)
       return NO_AVG;
       double Investment=0.0;
       if(prodcode_par_nonpar == "0" || paid_up == "C")
       Investment=investment_income_chetz_pv(t);
       return - cashflow_pv(t) - Investment;
6.1.1.3.1.140
                 discount_factor_acc
if (t < commence_period_w || t > maturity_period_ann)
       return 0.0;
if (t <= 0) return 1.;
int proj_yr = xint(proj_year(t));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t));
if ( t > maturity_period_w)
       return discount_factor_acc(t-1)* ann_v_month_t[proj_yr];
           discount_factor_acc(t-1)* v_month_t[proj_yr];
return
6.1.1.3.1.141
                 investment_income_chetz_bef_ret
if (t <= commence_period_w || t > maturity_period_ann)
       return 0.0;
int proj_yr = xint(proj_year(t));
```

```
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t));
double temp_reserve=0;
double Cal_yr_mth=100*cal_year(t) +cal_month(t);
if (chetz_be_ind == "Y" && Cal_yr_mth>=chetz_be_ind_yrs)
              temp_reserve=-cashflow_pv_active_chetz(t-1)-cashflow_pv_deferred_chetz(t-
1)+(riskadj_gross(t-1));
                     else
              temp_reserve=reserve_bef_ret(t-1) + cashflow_b_bef_ret(t);
if(mult_age_ind == 1)
       return (inv_rate_mth_t[proj_yr] -inv_rate_rf_mth_t[proj_yr]) * (temp_reserve);
return 0.0; //Unconditional return
6.1.1.3.1.142
                 investment_income_chetz_pv
if (t < commence_period_w || t > maturity_period_ann || free_inv_prop_t[1] >= 1.)
       return 0.0;
if (mult_age_ind != 1) {
       int proj_yr = xint(proj_year(t+1));
       if(eq(projection_type_int, "Rollup"))
              proj_yr = xint(proj_year_rollup(t+1));
       if (t >= maturity_period_w)
                         (investment_income_chetz_pv(t+1) + investment_income_chetz(t+1))*
              return
ann_v_month_t[proj_yr];
                  (investment_income_chetz_pv(t+1) + investment_income_chetz(t+1))*
v_month_t[proj_yr];
}
return investment_income_chetz_pv_active(t)
              + investment income chetz pv deferred(t)
              + investment_income_chetz_pv_inpay(t);
6.1.1.3.1.143
                 investment_income_chetz_pv_active
if (t < commence_period_w || t >= maturity_period_ann || mult_age_ind !=1 || free_inv_prop_t[1] >=
1.)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return (investment_income_chetz_pv_active(t+1)
              + investment_income_chetz_bef_ret(t+1) )
              * v_month_t[proj_yr];
```

6.1.1.3.1.144 investment_income_pv

```
if (t < commence_period_w || t > maturity_period_ann)
       return 0.0;
if(mult_age_ind != 1){
       int proj_yr = xint(proj_year(t+1));
       if(eq(projection_type_int, "Rollup"))
               proj_yr = xint(proj_year_rollup(t+1));
       if (t >= maturity_period_w)
                          (investment_income_pv(t+1) + investment_income(t+1))*
               return
ann_v_month_t[proj_yr];
       return
                  (investment_income_pv(t+1) + investment_income(t+1))* v_month_t[proj_yr];
}
return investment_income_pv_active(t)
              + investment_income_pv_deferred(t)
               + investment_income_pv_inpay(t);
6.1.1.3.1.145
                 pol_fee
if(submodel == "TRAD")
       return trad->pol_fee(t);
if(submodel == "TERM")
       return term->pol_fee(t);
if (t <= commence_period_w || t > maturity_period_w || premium_if_b(t)==0.)
       return 0.0;
// The policy fee is deducted at the same frequency as the premiums are payable.
double freq = prem_freq;
if (prem_term == 1)
       freq = 1.;
return policy_fee_if * policies_curr * surv_act_prm(t-1) / freq;
                 pol_fee_pv
6.1.1.3.1.146
if (t < commence_period_w || t >= maturity_period_w)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return
           pol_fee_pv(t+1)* v_month_t[proj_yr]
         + pol_fee(t+1);
```

6.1.1.3.1.147 prem_savings_pv if (t < commence_period_w || t >= maturity_period_w) return 0.0; int proj_yr = xint(proj_year(t+1)); if(eq(projection_type_int, "Rollup")) proj_yr = xint(proj_year_rollup(t+1)); return prem_savings_pv(t+1)* v_month_t[proj_yr] + prem_savings(t+1); 6.1.1.3.1.148 premium if(submodel == "ANN") return NO_AVG; if(submodel == "TRAD") return trad->premium(t); if(submodel == "TERM") return term->premium(t); // Single premium for paid-up policies if (t == commence_period_w +1 && (paid_up=="Y")) return (prem curr if) * benefits curr; if (prem term <= 1 && t + elapsed months == 1) // single premium return premium if b(t); if (t <= commence_period_w || t + elapsed_months > prem_term) return 0.0; if (fmod(xint(pol_month(t-1)), xint(12. / prem_freq))!=0) return 0.0; //not a premium due date double SI = sum_insured(t)*surv_act_prm(t-1); // fixed SI double prem_tot = premium_if_b(t)/prem_freq; // total premium if (SI <=0. || !eq(ben_class, "adif"))</pre> return prem_tot; double temp=0.0; // premium for Adif, remainder buys pure risk (Sapir) to reach fixed SI double a = sm_accum->allocation_rate(t); // basic allocation rate double t2 = prem rates extra tt(xint(age last(t)),sex smoker code)/prem freq; // tarif for extra adif risk double t1 = 0; if (sum_ins_basic_tt(xint(age_last(t)),sex_smoker_code) != 0) t1 = (100.-alloc rate[1]) / sum ins basic tt(xint(age last(t)),sex smoker code); // tarif for basic sum insured if (basic_perc(t)<1.)</pre> temp = prem tot; else if (t2 != 0 && t1 != 0){ if((1-a)/t1 - 1/t2 != 0)temp = (SI-sm_accum->units_b_bef(t) - sm_saving->units_b_bef(t)-prem_tot/t2) / ((1.-a)/t1 - 1./t2); // reduced premium for basic Adif, remainder is in prem_extra to buy extra risk }

if (temp > prem_tot) // i.e. no extra sum insured required

return prem_tot;

```
if (temp < 0) {// i.e. premium not enough to buy sum insured required (should not occur, since
fixed SI limited in sum_insured formula)
       //Fix premium to zero since it causes negative premium when lapse rate 100% for Qis5
purpose.
       return 0;
}
return temp;
6.1.1.3.1.149
                 premium_disc
if(submodel == "TERM")
       return term->premium_disc(t);
return NO_AVG;
                 premium_disc_pv
6.1.1.3.1.150
if (t < commence_period_w || t > maturity_period_w)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return
           premium_disc_pv(t+1)* v_month_t[proj_yr]
         + premium_disc(t+1);
6.1.1.3.1.151
                 premium_disc_shimur
if(submodel == "TERM")
       return term->premium_disc(t) - term->premium_disc_no_shimur(t);
return NO AVG;
6.1.1.3.1.152
                 premium_disc_shimur_pv
if (t < commence_period_w || t > maturity_period_w)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return
           premium_disc_shimur_pv(t+1)* v_month_t[proj_yr]
         + premium_disc_shimur(t+1);
6.1.1.3.1.153
                 premium extra
if(submodel == "ANN")
       return NO_AVG;
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
if (!eq(ben class, "adif"))
       return 0.;
return premium_if_b(t)/prem_freq - premium(t);
```

6.1.1.3.1.154 premium_gross if (t < commence_period_w || t > maturity_period_w) return 0.0; if(submodel == "ANN") return NO_AVG; if (submodel=="TERM") return term->premium_gross(t); if (submodel=="TRAD") return trad->premium_gross(t); if (fmod(xint(pol_month(t-1)), xint(12. / prem_freq))!=0) return 0.0; //not a premium due date return premium(t) + pol_fee(t) + premium_extra(t); 6.1.1.3.1.155 premium_gross_fix if (t <= commence_period_w || t > maturity_period_ann) return NO_AVG; if (eq(ben_class,"ltc")) return life->prem insurance(t); else return 0.0; 6.1.1.3.1.156 premium_gross_var if (t <= commence_period_w || t > maturity_period_ann) return NO_AVG; if (eq(ben_class,"ltc")) return 0.0; else return life->prem_insurance(t); 6.1.1.3.1.157 premium_pv if (t < commence_period_w || t >= maturity_period_w) return 0.0;

int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))

proj_yr = xint(proj_year_rollup(t+1));

```
premium_pv(t+1)* v_month_t[proj_yr]
return
         + premium_gross(t+1);
6.1.1.3.1.158
                 total bor acc pv
if (t < commence_period_w || t >= maturity_period_w)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return
           total_bor_acc_pv(t+1)* v_month_t[proj_yr]
         + bor_acc(t+1) + bor_acc_pup(t+1);
6.1.1.3.1.159
                 total_bor_return_pv
if (t < commence_period_w || t >= maturity_period_w)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return
           total_bor_return_pv(t+1)* v_month_t[proj_yr]
         + bor_return(t+1) + bor_return_pup(t+1);
6.1.1.3.1.160
                 outgo b
return comm_total(t)
   + claims_annuity(t) // Annuities paying in the beginning of the period
       + exp_total(t)
       + premium_re(t);
6.1.1.3.1.161
                 outgo_e
return claims_total(t)
                                   // Annuities paying in the beginning of the period
           -claims_annuity(t)
              +interest_re(t);
6.1.1.3.1.162
                 outgo_pv
if (t < commence_period_w || t >= maturity_period_ann)
       return 0.0;
if (mult_age_ind != 1){
       int proj_yr = xint(proj_year(t+1));
       if(eq(projection_type_int, "Rollup"))
              proj_yr = xint(proj_year_rollup(t+1));
       if ( t > maturity period w)
              return (outgo_pv(t+1) + outgo_e(t+1)) * ann_v_month_t[proj_yr] + outgo_b(t+1);
       else
              return (outgo_pv(t+1) + outgo_e(t+1)) * v_month_t[proj_yr] + outgo_b(t+1);
}
return outgo_pv_active(t)
              + outgo_pv_deferred(t)
```

+ outgo_pv_inpay(t);

```
6.1.1.3.1.163
                 claim_cost
if (t <= commence_period_w || !eq(submodel, "TERM") || t > maturity_period_w || t- term->t_start >
maturity_period_w || eq(paid_up, "C"))
       return 0.0;
if (eq(ben_class, "phi") && use_phi_claims_cf == "Y" && t- term->t_start >=0 )
       return term->claims_inpay_pv(t-term->t_start,0);
return
           NO_AVG;
6.1.1.3.1.164
                 claim_cost_pv
if (t < commence_period_w || t > maturity_period_w)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return
           (claim_cost_pv(t+1) + claim_cost(t+1))
               * v_month_t[proj_yr];
6.1.1.3.1.165
                 claim cost re
if (t <= commence_period_w || !eq(submodel, "TERM") || t > maturity_period_w || t- term->t_start >
maturity_period_w || reinsurance=="N" || eq(re_type,"NONE") || eq(paid_up,"C"))
       return 0.0;
if (eq(ben_class, "phi") && use_phi_claims_cf == "Y" && t- term->t_start >=0 )
       return claim_cost(t)*re_ratio_w;
           NO AVG;
return
6.1.1.3.1.166
                 claim_cost_re_pv
if (t < commence_period_w || t > maturity_period_w || reinsurance=="N" || eq(re_type,"NONE"))
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj yr = xint(proj year rollup(t+1));
return
           (claim cost re pv(t+1) + claim cost re(t+1))
               * v_month_t[proj_yr];
6.1.1.3.1.167
                 claims_annuity
if(t<= mat period min || t >= t high)
       return NO AVG;
if(inlist(submodel, "UNIT, TRAD, ANN") && res prop kitzba > 0.0){
       if(mult age ind == 1)
              return sm_annuity->pmt_total(t);
```

```
return sm_annuity[ann_index_map[takeup_age]]->pmt_total(t);
return NO_AVG;
6.1.1.3.1.168
                 claims_annuity_nogt
if(t<= mat_period_min || t >= t_high)
       return NO_AVG;
if(inlist(submodel, "UNIT, TRAD, ANN") && res_prop_kitzba > 0.0){
       if(mult_age_ind == 1)
              return sm_annuity->pmt_total_nogt(t);
       return sm_annuity[ann_index_map[takeup_age]]->pmt_total_nogt(t);
       }
return NO_AVG;
6.1.1.3.1.169
                 claims_annuity_nogt_pv
if (t < commence_period_w || t >= t_high)
       return 0.0;
if(mult_age_ind !=1){
       int proj_yr = xint(proj_year(t+1));
       if(eq(projection_type_int, "Rollup"))
              proj_yr = xint(proj_year_rollup(t+1));
       if( t >= maturity_period_w)
                         claims annuity nogt pv(t+1)* ann v month t[proj yr] +
              return
claims_annuity_nogt(t+1);
       else
                         claims annuity nogt pv(t+1)* v month t[proj yr] +
              return
claims_annuity_nogt(t+1);
}
return claims_annuity_nogt_pv_deferred(t) + claims_annuity_nogt_pv_inpay(t);
6.1.1.3.1.170
                 claims_annuity_nogt_pv_deferred
if (t < commence_period_w || t >= t_high || mult_age_ind !=1)
       return 0.0;
double new ret = 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
if(ann_index_map.count(retirement_age_lookup(t)) != 0){
       if(t == sm_annuity[ann_index_map[retirement_age_lookup(t)]]->maturity_period_w)
              new_ret = sm_annuity[ann_index_map[retirement_age_lookup(t)]]-
>claims_annuity_nogt_pv(t);
}
return claims_annuity_nogt_pv_deferred(t+1) * v_month_t[proj_yr] + new_ret;
```

6.1.1.3.1.171 claims_annuity_pv if (t < commence_period_w || t >= t_high) return 0.0; if(mult_age_ind !=1){ int proj_yr = xint(proj_year(t+1)); if(eq(projection_type_int, "Rollup")) proj_yr = xint(proj_year_rollup(t+1)); if(t >= maturity_period_w) claims_annuity_pv(t+1)* ann_v_month_t[proj_yr] + claims_annuity(t+1); return else claims_annuity_pv(t+1)* v_month_t[proj_yr] + claims_annuity(t+1); return } return claims_annuity_pv_deferred(t) + claims_annuity_pv_inpay(t); 6.1.1.3.1.172 claims_annuity_pv_deferred if (t < commence_period_w || t >= t_high || mult_age_ind !=1) return 0.0; double new_ret = 0.0; int proj yr = xint(proj year(t+1)); if(eq(projection_type_int, "Rollup")) proj_yr = xint(proj_year_rollup(t+1)); if(ann_index_map.count(retirement_age_lookup(t)) != 0){ if(t == sm_annuity[ann_index_map[retirement_age_lookup(t)]]->maturity_period_w) new_ret = sm_annuity[ann_index_map[retirement_age_lookup(t)]]->claims_annuity_pv(t); } return claims_annuity_pv_deferred(t+1) * v_month_t[proj_yr] + new_ret; 6.1.1.3.1.173 claims_death if(submodel == "TRAD") return trad->claims_death(t); if(submodel == "TERM"){ if (inlist(ben_class, "accdth,dth,fib,mortg")) return term->claims_total(t); return 0; } return death_claim_si(t); 6.1.1.3.1.174 claims death pv if (t < commence_period_w || t > maturity_period_w) return 0.0; int proj_yr = xint(proj_year(t+1)); if(eq(projection_type_int, "Rollup")) proj_yr = xint(proj_year_rollup(t+1));

```
(claims_death_pv(t+1) + claims_death(t+1))
return
                * v_month_t[proj_yr];
6.1.1.3.1.175
                 claims_disability
if(submodel == "TRAD")
       return 0;
if(submodel == "TERM"){
       if (inlist(ben_class, "accdth,dth,fib,mortg"))
              return 0;
       return term->claims_total(t);
}
return 0.0;
6.1.1.3.1.176
                 claims disability pv
if (t < commence_period_w || t > maturity_period_w)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return
           (claims_disability_pv(t+1) + claims_disability(t+1))
                * v_month_t[proj_yr];
6.1.1.3.1.177
                 claims_Irc_q1
if (eq(paid_up, "C"))
       return 0.0;
if(ben_class == "phi" && use_phi_claims_cf == "Y")
       return term->claims_inpay_q1(t);
if(ben_class == "phi" || prod_code == "ltc-shil")
       if (t<4 && t>0)
              return term->claims_total(t);
return 0.0;
6.1.1.3.1.178
                 claims_lrc_q2
if (eq(paid_up, "C"))
       return 0.0;
if(ben_class == "phi" && use_phi_claims_cf == "Y")
       return term->claims_inpay_q2(t);
if(ben_class == "phi" || prod_code == "ltc-shil")
       if (t<7 && t>3)
              return term->claims_total(t);
return 0.0;
```

```
6.1.1.3.1.179
                 claims_lrc_q3
if (eq(paid_up, "C"))
       return 0.0;
if(ben_class == "phi" && use_phi_claims_cf == "Y")
       return term->claims_inpay_q3(t);
if(ben_class == "phi" || prod_code == "ltc-shil")
       if (t<10 && t>6)
              return term->claims_total(t);
return 0.0;
6.1.1.3.1.180
                 claims_lrc_q4
if (eq(paid_up, "C"))
       return 0.0;
if(ben_class == "phi" && use_phi_claims_cf == "Y")
       return term->claims_inpay_q4(t);
if(ben_class == "phi" || prod_code == "ltc-shil")
       if (t<13 && t>9)
              return term->claims total(t);
return 0.0;
6.1.1.3.1.181
                 claims_lrc_yr2plus
if (eq(paid_up, "C"))
       return 0.0;
if(ben class == "phi" && use phi claims cf == "Y")
       return term->claims_inpay_other(t);
if(ben_class == "phi" || prod_code == "ltc-shil")
       if (t>12)
              return term->claims_total(t);
return 0.0;
6.1.1.3.1.182
                 claims_maturity
if (t <= life->commence_period_w || t > life-> maturity_period_ann)
       return NO_AVG;
if(inlist(submodel, "TERM, ANN"))
       return 0.0;
if(submodel == "TRAD") {
        return trad->claims_maturity(t) * retirement_prop(t) * (1.-
sm_annuity[ann_index_map[retirement_age_lookup(t)]]->ann_takeup_rate(t-1));
       }
if (t < mat_period_min ||t > maturity_period_w)
```

```
return 0.0;
if (t == maturity_period_w)
       return units_at_mat(t) * (1.- sm_annuity[ann_index_map[retirement_age_lookup(t)]]-
>ann_takeup_rate(t-1));
return units_at_mat(t) * retirement_prop(t) * (1.-
sm_annuity[ann_index_map[retirement_age_lookup(t)]]->ann_takeup_rate(t-1));
6.1.1.3.1.183
                 claims_maturity_pv
if (t < commence_period_w || t > maturity_period_w)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return
           (claims_maturity_pv(t+1) + claims_maturity(t+1))
               * v_month_t[proj_yr];
6.1.1.3.1.184
                 claims maturity ret
if (t <= life->commence_period_w || t > life-> maturity_period_ann)
       return NO_AVG;
if(inlist(submodel, "TERM, ANN"))
       return 0.0;
if(submodel == "TRAD") {
        return trad->claims_maturity(t) * retirement_prop(t);
       }
if (t < mat_period_min ||t > maturity_period_w)
       return 0.0;
if (t == maturity_period_w)
       return units_at_mat(t);
return units_at_mat(t) * retirement_prop(t);
6.1.1.3.1.185
                 claims_maturity_ret_pv
if (t < commence_period_w || t > maturity_period_w)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return
           (claims_maturity_ret_pv(t+1) + claims_maturity_ret(t+1))
               * v_month_t[proj_yr];
6.1.1.3.1.186
                 claims_pv
if (t < commence_period_w || t > maturity_period_ann)
       return 0.0;
if (mult age ind != 1){
```

```
int proj_yr = xint(proj_year(t+1));
       if(eq(projection_type_int, "Rollup"))
               proj_yr = xint(proj_year_rollup(t+1));
       if (t >= maturity_period_w)
               return
                         (claims_pv(t+1) + claims_total(t+1) - claims_annuity(t+1))*
ann_v_month_t[proj_yr] + claims_annuity(t+1);
       else
               return
                         (claims_pv(t+1) + claims_total(t+1) - claims_annuity(t+1))*
v_month_t[proj_yr] + claims_annuity(t+1);
return claims annuity pv(t)
              + claims_pv_not_annuity (t);
6.1.1.3.1.187
                 claims_re_lrc_q1
if (eq(paid_up, "C"))
       return 0.0;
if(ben_class == "phi" || prod_code == "ltc-shil")
       return claims_lrc_q1(t) * re_ratio_w;
return 0.0;
6.1.1.3.1.188
                 claims_re_lrc_q2
if (eq(paid_up, "C"))
       return 0.0;
if(ben_class == "phi" || prod_code == "ltc-shil")
       return claims_lrc_q2(t) * re_ratio_w;
return 0.0;
6.1.1.3.1.189
                 claims_re_lrc_q3
if (eq(paid_up, "C"))
       return 0.0;
if(ben_class == "phi" || prod_code == "ltc-shil")
       return claims_lrc_q3(t) * re_ratio_w;
return 0.0;
6.1.1.3.1.190
                 claims_re_lrc_q4
if (eq(paid_up, "C"))
       return 0.0;
if(ben_class == "phi" || prod_code == "ltc-shil")
       return claims_lrc_q4(t) * re_ratio_w;
return 0.0;
```

```
6.1.1.3.1.191
                 claims_re_lrc_yr2plus
if (eq(paid up, "C"))
       return 0.0;
if(ben_class == "phi" || prod_code == "ltc-shil")
       return claims_lrc_yr2plus(t) * re_ratio_w;;
return 0.0;
6.1.1.3.1.192
                 claims_surrender
if(submodel == "TRAD")
       return trad->claims_surrender(t);
if(submodel == "TERM")
       return 0.0;
// force calc of surrender charge in main model
double temp1 = surr_charge(t);
// force calc of surrender value and penalties in the main model
double temp2 = surr_penalty_e_bef(t);
// Assume a zero surrender value is paid for each distinct unit type
// if there are negative units for that unit type.
     return
                  max(0, sm accum->claims surrender(t)) +
                             max(0, sm acc pup->claims surrender(t))+
                             max(0, sm saving->claims surrender(t)) +
                             max(0, sm_saving_pup->claims_surrender(t)) +
                             death_claim_units(t);
6.1.1.3.1.193
                 claims surrender pv
if (t < commence_period_w || t > maturity_period_w)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return
           (claims_surrender_pv(t+1) + claims_surrender(t+1))
               * v_month_t[proj_yr];
6.1.1.3.1.194
                 claims_total
return claims_death(t) + claims_disability(t) + claims_surrender(t)
              + claims_maturity(t) + claims_annuity(t);
                 death_benefit
6.1.1.3.1.195
if (!eq(ben_class,"profil"))
       return NO_AVG;
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
if (t>0)
       return sum_insured(t) + units_b(t);
```

return 0.0; 6.1.1.3.1.196 death_claim_si if (t <= commence_period_w || t > maturity_period_w) return 0.0; if (eq(ben_class, "adif")) return sum_at_risk_claim(t)* death_rate(t); else if (t>0) return rider_perc_allowed(t) / 100. * claim_amount_tt.sum_of_row(t) * surv_act_prm(t-1); else return 0.0; 6.1.1.3.1.197 death_claim_units // Assume a zero unit value if the unit value is negative if(submodel == "TRAD") return (trad->surr_value(t)+trad->surr_value_pup(t))*trad->death_rate(t); double temp=0.0; temp = max(0, sm_accum->death_claims_units(t)) + max(0, sm_acc_pup->death_claims_units(t))+ max(0, sm_saving->death_claims_units(t)) + max(0, sm saving pup->death claims units(t)) + units bon(t) * death rate(t); return temp; 6.1.1.3.1.198 expense_claims_Irc_q1 if (t <= commence_period_w || t > maturity_period_ann||(exp_claim_perc == 0. && exp_claim_fix ==0.) || eq(paid_up,"C")) return 0.0; if(ben class == "phi" && use phi claims cf == "Y") { double clm_perc = exp_claim_perc/100. * claims_lrc_q1 (t) * expense_inflation(t); double clm_fix = exp_claim_fix * term->claims_rate_per_q1(t) * expense_inflation(t); double margin = 0.; if(margin_add=="Y") margin = margin_exp_ren_pc; double result = (clm perc + clm fix) * (1 + margin/100.); return result; }

```
if(ben_class == "phi" || prod_code == "ltc-shil")
       if (t<4 && t>0)
              return expense_claims(t);
return 0.0;
6.1.1.3.1.199
                 expense_claims_lrc_q2
if (t <= commence_period_w || t > maturity_period_ann||(exp_claim_perc == 0. && exp_claim_fix ==0.)
|| eq(paid_up,"C"))
       return 0.0;
if(ben_class == "phi" && use_phi_claims_cf == "Y")
{
       double clm_perc = exp_claim_perc/100.
                                            * claims_lrc_q2 (t)
                                            * expense_inflation(t);
       double clm_fix = exp_claim_fix
                                     * term->claims_rate_per_q2(t)
                                     * expense inflation(t);
       double margin = 0.;
       if(margin_add=="Y")
              margin = margin_exp_ren_pc;
       double result = (clm_perc + clm_fix) * (1 + margin/100.);
       return result;
}
if(ben_class == "phi" || prod_code == "ltc-shil")
       if (t<7 && t>3)
              return expense_claims(t);
return 0.0;
6.1.1.3.1.200
                 expense_claims_lrc_q3
if (t <= commence_period_w || t > maturity_period_ann||(exp_claim_perc == 0. && exp_claim_fix ==0.)
|| eq(paid_up,"C"))
       return 0.0;
if(ben_class == "phi" && use_phi_claims_cf == "Y")
{
       double clm_perc = exp_claim_perc/100.
                                            * claims_lrc_q3 (t)
                                            * expense_inflation(t);
       double clm_fix = exp_claim_fix
```

```
* term->claims_rate_per_q3(t)
                                     * expense_inflation(t);
       double margin = 0.;
       if(margin_add=="Y")
              margin = margin_exp_ren_pc;
       double result = (clm_perc + clm_fix) * (1 + margin/100.);
       return result;
}
if(ben_class == "phi" || prod_code == "ltc-shil")
       if (t<10 && t>6)
              return expense_claims(t);
return 0.0;
6.1.1.3.1.201
                 expense_claims_lrc_q4
if (t <= commence_period_w || t > maturity_period_ann||(exp_claim_perc == 0. && exp_claim_fix ==0.)
|| eq(paid_up,"C"))
       return 0.0;
if(ben_class == "phi" && use_phi_claims_cf == "Y")
       double clm_perc = exp_claim_perc/100.
                                            * claims_lrc_q4 (t)
                                            * expense_inflation(t);
       double clm_fix = exp_claim_fix
                                     * term->claims_rate_per_q4(t)
                                     * expense_inflation(t);
       double margin = 0.;
       if(margin_add=="Y")
               margin = margin_exp_ren_pc;
       double result = (clm_perc + clm_fix) * (1 + margin/100.);
       return result;
}
if(ben_class == "phi" || prod_code == "ltc-shil")
       if (t<13 && t>9)
              return expense_claims(t);
return 0.0;
```

6.1.1.3.1.202 expense_claims_lrc_yr2plus

```
if (t <= commence_period_w || t > maturity_period_ann||(exp_claim_perc == 0. && exp_claim_fix ==0.)
|| eq(paid_up,"C"))
       return 0.0;
if(ben_class == "phi" && use_phi_claims_cf == "Y")
       double clm_perc = exp_claim_perc/100.
                                            * claims_lrc_yr2plus (t)
                                            * expense_inflation(t);
       double clm_fix = exp_claim_fix
                                     * term->claims_rate_per_other(t)
                                     * expense_inflation(t);
       double margin = 0.;
       if(margin_add=="Y")
               margin = margin exp ren pc;
       double result = (clm_perc + clm_fix) * (1 + margin/100.);
       return result;
}
if(ben_class == "phi" || prod_code == "ltc-shil")
       if (t>12)
               return expense_claims(t);
return 0.0;
6.1.1.3.1.203
                 nogt_annpv
if (t < commence_period_w || t >= t_high)
       return 0.0;
return claims_annuity_nogt_pv(t);
6.1.1.3.1.204
                 surr_penalty_e_bef
return sm_accum->surr_penalty_e_bef(t) +
              sm_acc_pup->surr_penalty_e_bef(t)+
               sm_saving->surr_penalty_e_bef(t) +
               sm_saving_pup->surr_penalty_e_bef(t);
6.1.1.3.1.205
                 surr_value
if (inlist(submodel, "TERM, ANN"))
       return NO_AVG;
if (submodel=="TRAD")
       return trad->surr_value(t)+ trad->surr_value_pup(t);
```

```
return (sm_accum->surr_value(t) +
                      sm_acc_pup->surr_value(t) +
                      sm_saving->surr_value(t) +
                      sm_saving_pup->surr_value(t));
6.1.1.3.1.206
                 comm_hekef
// Commission is Paid on total initial annualized premium (including loadings and excluding
discounts)
if (t <= commence_period_w || t > maturity_period_w || eq(paid_up, "G"))
       return 0.0;
double comex1 =0.; // payment at policy commencement
double comm_addition_rider =0.;
if ( eq(paid_up, "Y")){
       if(t + elapsed_months + elapsed_months_extra == 1){
               if(eq(prod code, "prof-fin")) //Paid-up Ogen
                      comex1 = prem curr if
                                            * comm_hekef_pc / 100.;
               if (eq(comm_set_temp, "finance") || eq(prod_code, "prof13-see")) //Ofek and niud
(dinami should only be for niud part)
                      comex1 = resinforce
                                     * comm hekef pc res /100.;
               if(eq(submodel, "UNIT") && (elapsed months + elapsed months extra) < 12){</pre>
                      comm_addition_rider = cover_charge(1) * (comm_hekef_pc_rider -
comm_hekef_pc)/100;
               }
               return (comex1 + comm_addition_rider)*(1+vat/100.);
       }
       return 0.0;
}
if (t + elapsed_months + elapsed_months_extra == 1){
       comex1 = premium_gross(t)*prem_freq
                   *comm_hekef_pc /100.;
       if(eq(submodel, "UNIT") && (elapsed_months + elapsed_months_extra) <= 12){</pre>
               double comm_temp_pc = (comm_hekef_pc_rider - comm_hekef_pc)/100.;
               double temp_surv = 1.;
               if (surv_act_prm(1)> 0.00001)
                      temp_surv = surv_act_prm(1);
               comm_addition_rider = (cover_charge(1)*surv_act_prm(t)/temp_surv)*prem_freq *
comm_temp_pc;
       }
}
```

```
return (comex1 + comm_addition_rider)*(1+vat/100.);
6.1.1.3.1.207
                 comm nihul
if (t <= commence_period_w || t > maturity_period_w || inlist(paid_up, "Y,G"))
       return 0.0;
if ( (prod_yr_w >= 2004) \&\& !eq(submodel, "TRAD") ) {// for policies sold from 2004 commission}
paid on policy fee etc.
       return ( premium(t) * basic_perc(t) + pol_fee(t) - premium_disc(t) )
                   * comm_nihul_rate[xint(pol_year(t))] /100.
                      * (1.+vat/100.);
       }
else
       return 0.0;
6.1.1.3.1.208
                 comm_nihul_pv
if (t < commence_period_w || t >= maturity_period_w)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return
           comm_nihul_pv(t+1) * v_month_t[proj_yr]
         + comm_nihul(t+1);
6.1.1.3.1.209
                 comm not res pv
if (t < commence_period_w || t >= maturity_period_w)
       return 0.0;
           comm_pv(t) - comm_reserve_pv(t);
return
6.1.1.3.1.210
                 comm prize
// Commission is Paid on total initial annualized premium (including loadings and excluding
discounts)
if (t <= commence_period_w || t > maturity_period_w )
       return 0.0;
double comex1 =0.; // payment at policy commencement
if ( eq(paid_up, "Y")){
       if(eq(comm_set_temp, "finance")){
              if (t + elapsed months + elapsed months extra == 1)
                      comex1 = resinforce
                                     * comm_prizes_pc_res /100.;
              //No riders on Ofek
              return comex1*(1+vat/100.);
       else
              return 0.0;
```

```
}
if (t + elapsed_months + elapsed_months_extra == 1)
       comex1 = premium_gross(t)*prem_freq
                  * comm_prizes_pc /100.;
return comex1*(1+vat/100.);
6.1.1.3.1.211
                 comm pv
if (t < commence_period_w || t >= maturity_period_w)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
           comm_pv(t+1)* v_month_t[proj_yr]
return
         + comm_total(t+1);
6.1.1.3.1.212
                 comm_reg_riders_out_pv
if (t < commence_period_w || t >= maturity_period_w)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection type int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
           comm_reg_riders_out_pv(t+1)* v_month_t[proj_yr]
return
         + comm_reg_riders_out(t+1);
6.1.1.3.1.213
                 comm_regular
if (t <= commence period w || t >maturity period w || paid up=="Y")
       return 0.0;
if ( (prod_yr_w >= 2004) \& !eq(submodel,"TRAD") ) {// for policies sold from 2004 commission}
paid on policy fee etc.
       return ( ( premium(t) * basic_perc(t) + pol_fee(t) - premium_disc(t) )
                  * comm_regular_pc[xint(pol_year(t))] /100. )
              * (1.+vat/100.);
       }
else {
       if (eq(submodel,"UNIT"))
              return ( sm_accum->comm_regular(t) + sm_saving->comm_regular(t)+
                     premium_extra(t)*comm_regular_pc[xint(pol_year(t))] / 100. )
                      * (1.+vat/100.);
       else
              return premium(t) / (1.+tat_shnatiut_rate/100.)
                      * comm_regular_pc[xint(pol_year(t))] / 100.
                      * (1.+vat/100.);
       }
6.1.1.3.1.214
                 comm_renewal
if (t <= commence_period_w || t >maturity_period_w)
       return 0.0;
```

```
if (t + elapsed_months <= (comm_renewal_year-1)*12)</pre>
       return 0.0;
double comm_ren_perc_prem_temp=comm_ren_perc_prem;
double amla_hishtatfut_dnp_temp = amla_hishtatfut_dnp/ 100.;
if(ben_class == "mortg" && origidate >= 200704 && channel !="Banks" && xint(pol_year(t) +
round(elapsed_months_extra/12.,0)) >=16)
       comm_ren_perc_prem_temp=min(comm_ren_perc_prem_mrtg,comm_ren_perc_prem);
if(comm_ren_perc_prem_temp>0 || comm_ren_perc_sav>0)
       amla_hishtatfut_dnp_temp=0.0;
if (submodel=="UNIT")
       return ((sm_accum->comm_renewal(t) + sm_saving->comm_renewal(t) +
              (premium_extra(t) + pol_fee(t))
              * comm ren perc prem temp / 100.) + amla hishtatfut dnp temp* charges premium(t))
              * (1+vat/100.);
else
       return
                      premium gross(t)
              * comm_ren_perc_prem_temp/ 100.
              * (1+vat/100.);
6.1.1.3.1.215
                 comm renewal pv
if (t < commence_period_w || t >= maturity_period_w)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return
           comm_renewal_pv(t+1)* v_month_t[proj_yr]
         + comm renewal(t+1) + comm profit(t+1);
6.1.1.3.1.216
                 comm reserve
if (submodel=="UNIT")
       return (sm_accum->comm_reserve(t) +
              sm_acc_pup->comm_reserve(t)+
              sm_saving->comm_reserve(t) +
              sm_saving_pup->comm_reserve(t));
              // no need to add VAT as Res Comm Perc already includes VAT
else
       return 0.0;
6.1.1.3.1.217
                 comm reserve pv
if (t < commence_period_w || t >= maturity_period_w)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return
           comm_reserve_pv(t+1)* v_month_t[proj_yr]
         + comm reserve(t+1);
```

6.1.1.3.1.218 comm_total

return 0;

```
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
return comm_nihul(t) +
              comm_regular(t) +
               comm_renewal(t) +
               comm_reserve(t) -
               comm_clawback(t) +
               comm prize(t) +
               comm \ hekef(t) +
               comm_profit(t) +
               comm_reg_riders_out(t);
6.1.1.3.1.219
                 profit_re_pv
if (t < commence_period_w || t >= maturity_period_w)
       return 0.0;
double prof = premium_re(t+1)
                      - claims_re(t+1)
                      - comm_re(t+1)
                      - comm_re_prof(t+1);
int proj yr = xint(proj year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return profit_re_pv(t+1)* v_month_t[proj_yr] + prof;
6.1.1.3.1.220
                 comm_clawback
/*The amount of this cashflow in period t is equal to the accumulated commission
amount, in respect of currently inforce policies, at the end of period t-1 multiplied
by the total of lapsing policies and policies becoming pup in period t-1.
Initial commission is clawed back only after the policy has been in force
for greater than one period.
*/
if (t-1 <= commence period w)</pre>
       return 0;
// Clawback is not calculated once a policy has become paid-up.
if (inlist(paid_up, "G"))
       return 0;
if(eq(paid_up, "Y"))
{
       double temp = surv_pup_prm(t-2) * lapse_rate_pup_prm(t-1);
       if (t+elapsed months-1+elapsed months extra <=180 && surv prm(commence period w) != 0)
               return comm_claw_prpn_hekef[t+elapsed_months-1+elapsed_months_extra] / 100
                      * comm hekef cum(t-1)
                      * temp / surv_prm(commence_period_w);
```

```
}
// temp = policies lapsing or becoming paid-up in period
double temp = surv_act_prm(t-2) * (lapse_rate_act_prm_dep(t-1) + pup_rate_prm_dep(t-1));
double result1 = 0.0; //hekef commission
if (t+elapsed_months-1+elapsed_months_extra <=180){</pre>
               result1 = comm_claw_prpn_hekef[t+elapsed_months-1+elapsed_months_extra] / 100.*
                                     comm_hekef_cum(t-1);
}
if (surv_prm(commence_period_w) != 0)
       return result1
                      * temp / surv prm(commence period w);
return 0;
6.1.1.3.1.221
                 comm_hekef_cum
if (t <= commence_period_w || t > maturity_period_w || inlist(paid_up, "G"))
       return 0.0;
if(eq(paid_up, "Y")){
               if (surv_pup_prm(t-1) < 0.0000001)
                      return comm_hekef_cum(t-1);
               return comm hekef cum(t-1)
               + comm_hekef(t) * surv_prm(commence_period_w) / surv_pup_prm(t-1);
       }
       if(surv_act_prm(t-1)<0.0000001) return comm_hekef_cum(t-1);</pre>
       return comm hekef cum(t-1)
               + comm_hekef(t) * surv_prm(commence_period_w) / surv_act_prm(t-1);
6.1.1.3.1.222
                 exp_total
return expense_initial_fix(t)
              + expense initial perc(t)
               + expense ren fix(t)
              + expense_ren_perc(t)
              + expense investment(t)
              + expense_claims(t)
               + expense_ren_charge(t)
              + comm_supervisor(t)
               - comm_claw_spv(t);
6.1.1.3.1.223
                 expense_inflation
if (t < 1 || t > maturity_period_ann)
       return 1.0;
```

```
return expense_inflation(t-1) * (1.0 + exp_inflation_mthly);
6.1.1.3.1.224
                 expense pv
if (t < commence_period_w || t > maturity_period_ann)
       return 0.0;
if(mult_age_ind != 1){
       int proj_yr = xint(proj_year(t+1));
       if(eq(projection_type_int, "Rollup"))
              proj_yr = xint(proj_year_rollup(t+1));
       if ( t > maturity period w)
              return expense_pv(t+1) * ann_v_month_t[proj_yr] + exp_total(t+1);
       else
              return expense_pv(t+1) * v_month_t[proj_yr] + exp_total(t+1);
}
return expense_pv_active(t)
              + expense_pv_deferred(t)
              + expense_pv_inpay(t);
6.1.1.3.1.225
                 expense_total_pre_ret
return expense_initial_fix(t)
              + expense initial perc(t)
              + expense ren fix(t)
              + expense ren perc bef ret(t)
              + expense claims(t)
              + expense_ren_charge(t)
              + comm_supervisor(t)
              - comm_claw_spv(t);
6.1.1.3.1.226
                 expense_total_pre_ret_no_inv
return expense_initial_fix(t)
              + expense_initial_perc(t)
              + expense_ren_fix(t)
              + expense_ren_perc_bef_ret_no_inv(t)
              + expense_claims(t)
              + expense_ren_charge(t)
              + comm_supervisor(t)
              - comm_claw_spv(t);
6.1.1.3.1.227
                 expense_var_pv
if (t < commence_period_w || t > maturity_period_ann)
       return 0.0;
if(mult_age_ind != 1){
       int proj_yr = xint(proj_year(t+1));
       if(eq(projection_type_int, "Rollup"))
              proj_yr = xint(proj_year_rollup(t+1));
       if ( t > maturity_period_w){
              return expense_var_pv(t+1)* ann_v_month_t[proj_yr]
```

```
+ expense_initial_perc(t+1)
                + expense_ren_perc(t+1)
                + expense_ren_charge(t+1);
       return expense_var_pv(t+1)* v_month_t[proj_yr]
                + expense_initial_perc(t+1)
                + expense_ren_perc(t+1)
                + expense_ren_charge(t+1);
}
return expense_pv_deferred(t)
              + expense_pv_inpay(t)
              + expense_var_pv_active(t);
6.1.1.3.1.228
                 expense_init_fix_cvr
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
if (t + elapsed months+elapsed months extra == 1) {
       double result1 = exp_init_fix_cov * benefits_curr * surv_cnt(0);
       //add expenses for profil riders
       double result2 = 0;
       if (eq(ben_class, "profil")){
               for (int i=0; i < riders_count_w; i++) {</pre>
                      result2 = result2 + exp_initial_fix_rider[i];
               }
       }
       double margin = 0.;
       if(margin_add=="Y")
               margin = margin_exp_ini_fix;
       return (result1 + result2)
                      * (1+margin/100.);
       }
return 0.0;
6.1.1.3.1.229
                 expense_initial_fix
if (t <= commence period w || t > maturity period w)
       return 0.0;
return expense_initial_fix_pol(t) + expense_init_fix_cvr(t);
6.1.1.3.1.230
                 expense_initial_fix_pol
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
if (t + elapsed months+elapsed months extra == 1) {
       double margin = 0.;
       if(margin_add=="Y")
```

```
margin = margin_exp_ini_fix;
       return exp_init_fix
                      * policies_b(t)
                      * (1. + margin/100.);
       }
return 0.0;
6.1.1.3.1.231
                 expense initial perc
if (t <= commence_period_w || t > maturity_period_w || paid_up =="Y")
       return 0.0;
xstring key_temp;
if (t + elapsed_months +elapsed_months_extra == 1) {
       double margin = 0.;
       if(margin add=="Y")
              margin = margin_exp_ini_pc;
       double profil risk init exps = 0.0;
       if (eq(ben_class,"profil")) {
              double risk_extra_init_perc = 0.0;
              for (int i=0; i < riders_count_w; i++) {</pre>
                      rider_tarif_row_key=xstring(tarif_rider[i]);
                      prod_code_rider = rider_tarif_tbl;
                      key_temp =prod_assumpt_rider_exp_tbl;
                      exp_row_lookup=key_temp+"_"+company+"_"+pol_type_expenses;
                      risk_extra_init_perc = i_prem;
                      risk_extra_init_perc = risk_extra_init_perc - exp_init_perc_prem;
                      profil_risk_init_exps = profil_risk_init_exps +
                             (sm_riders[i]->prem_cover/12.) * 12 *
                             exp_initial_extra_perc_charge[i] / 100. * surv_act_prm(t-1);
                      } // end for
              } // end if (eq(ben class, "profil"))
       if (margin add discount == "Y" && eq(submodel, "TERM"))
                      return (exp_init_perc_prem / 100. * term->prem_gross_no_scen(t)* prem_freq
//Do not apply expenses to discount scenario
                      + profil_risk_init_exps ) * (1. + margin/100.);
       return (exp_init_perc_prem / 100. * premium_gross(t) * prem_freq
                      + profil_risk_init_exps ) * (1. + margin/100.);
       } // end if t = month 1 of policy
return 0.0;
6.1.1.3.1.232
                 expense_claims
return expense_clm_perc(t) + expense_clms_fix(t);
6.1.1.3.1.233
                 expense claims pv
if (t < commence_period_w || t > maturity_period_w)
       return 0.0;
```

```
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return expense_claims_pv(t+1)* v_month_t[proj_yr]+ expense_claims(t+1);
6.1.1.3.1.234
                 expense_clm_perc
if (t <= commence_period_w || t > maturity_period_ann||exp_claim_perc == 0.)
       return 0.0;
double result = exp_claim_perc/100.
                                    * (claims_total(t-1)-claims_annuity(t-1))
                                    * expense_inflation(t);
double margin = 0.;
if(margin_add=="Y")
       margin = margin_exp_ren_pc;
return result * (1 + margin/100.);
6.1.1.3.1.235
                 expense_clms_fix
if (t <= commence_period_w || t > maturity_period_ann||exp_claim_fix == 0.)
       return 0.0;
double result = exp claim fix
                                    * claims rate per(t)
                                    * expense_inflation(t);
double margin = 0.;
if(margin_add=="Y")
       margin = margin_exp_ren_pc;
return result * (1 + margin/100.);
6.1.1.3.1.236
                 expense_pv_ann
if (t < commence_period_w || t >= maturity_period_ann)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
if ( t > maturity_period_w)
              return expense_pv_ann(t+1) * ann_v_month_t[proj_yr]+ expense_ren_perc_ann(t+1);
       else
              return expense_pv_ann(t+1) * v_month_t[proj_yr]+ expense_ren_perc_ann(t+1);
6.1.1.3.1.237
                 expense ren fix pv
if (t <= commence_period_w || t > maturity_period_ann)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
```

```
return expense_ren_fix_pv(t+1)* v_month_t[proj_yr]+ expense_ren_fix(t+1);
6.1.1.3.1.238
                 expense_ren_perc_pv
if (t < commence period w || t > maturity period ann)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return expense_ren_perc_pv(t+1)* v_month_t[proj_yr]+ expense_ren_perc(t+1);
6.1.1.3.1.239
                 comm_reg_riders_out
if (submodel != "UNIT")
       return NO_AVG;
if (t <= commence_period_w || t > maturity_period_w || !eq(ben_class,"profil"))
       return 0.0;
double result = 0.0;
double extra_rider_comm = 0.0;
//*** for some reason negative t values are called (covercharges not working ? for t<0)
if (t<0)
       return 0;
for (int i=0; i < riders count w; i++) {</pre>
       if ( (tarif_rider[i] > 0) && sm_riders[i]->prm_in_ppn <=0.5 ) {// rider premium is "out"</pre>
               if (proj_year(t)<7.0)</pre>
                      extra_rider_comm = max((sm_riders[i]->amla_1_6 + sm_riders[i]-
>aml_ni_1_6)/100.
                             -comm_regular_pc[xint(pol_year(t))] / 100.
                              -comm_nihul_rate[xint(pol_year(t))] / 100. , 0.0);
               else
                      extra_rider_comm = max((sm_riders[i]->amla_7 + sm_riders[i]->amla_ni_7)/100.
                             -comm_regular_pc[xint(pol_year(t))] / 100.
                             -comm_nihul_rate[xint(pol_year(t))] / 100. , 0.0);
               if (accum->allocation_rate(t)>0.0)
                      result = result + charge_amount_tt(t,i) * rider_perc_allowed(t) / 100. /
(accum->allocation_rate(t))
                             * extra_rider_comm * surv_act_prm(t-1);
               else
                      result = result + charge_amount_tt(t,i) * rider_perc_allowed(t) / 100.
                             * extra_rider_comm * surv_act_prm(t-1);
       }
}
return result;
```

if (eq(ben_class,"dd") && surv_cnt(t-1)>0.)

6.1.1.3.1.240 expense_ren_charge if (submodel != "UNIT") return NO_AVG; if (t <= commence_period_w || t > maturity_period_w) return 0.0; if (!eq(ben_class, "profil")) return 0.; double result = 0.0; if (t<0) return 0; if (eq(company, "hasne")){//expenses for Hasne remain unchanged from model v32 for (int i=0; i < riders_count_w; i++) {</pre> result = result + charge_amount_tt(t,i) * rider_perc_allowed(t) / 100. * exp_extra_perc_charge[i] / 100. * surv_act_prm(t-1); // t=r ? *** } else //Expenses for clal for (int i=0; i < riders_count_w; i++) {</pre> result = result + charge_amount_tt(1,i) * rider_perc_allowed(t) / 100. * exp_extra_perc_charge[i] / 100. * surv_act_prm(t-1); } } return result; 6.1.1.3.1.241 expense_ren_fix if (t <= commence_period_w || t > maturity_period_ann) return 0.0; return expense_ren_fix_cvr(t) + expense_ren_fix_pol(t) + expense_ren_fix_pup(t); 6.1.1.3.1.242 expense ren fix cvr if (t <= commence_period_w || t > maturity_period_ann) return 0.0; if (paid_up=="C") return 0.0; double temp = surv_act_cnt(t-1);

temp = $(term->surv_2(t-1)+surv_cnt(t-1))$; // to allow for expenses for secondary lives

```
double result1 = exp_ren_fix_cov / 12.
               * benefits_curr
               * expense_inflation(t)
               * temp;
//add expenses for profil riders
double result2 = 0;
if (eq(ben_class,"profil")){
       for (int i=0; i < riders_count_w; i++) {</pre>
              result2 = result2
                                     + exp_ren_fix_rider[i] * expense_inflation(t) * temp / 12.;
       }
}
double margin = 0.;
if(margin add=="Y")
       margin = margin_exp_ren_fix;
return (result1 + result2) * (1 + margin/100.);
6.1.1.3.1.243
                 expense_ren_fix_pol
if (t <= commence_period_w || t > maturity_period_ann)
       return 0.0;
if (paid_up=="C")
       return 0.0;
double temp = surv_act_cnt(t-1);
if (eq(ben_class,"dd") && surv_cnt(t-1)>0.)
       temp = (term -> surv_2(t-1) + surv_cnt(t-1)); // to calculate expenses for secondary lives
double result = exp_ren_fix / 12.
                               * policies_curr
                               * expense_inflation(t)
                               * temp;
double margin = 0.;
if(margin add=="Y")
       margin = margin_exp_ren_fix;
return result * (1 + margin/100.);
6.1.1.3.1.244
                 expense ren fix pup
if (t <= commence_period_w || t > maturity_period_ann)
       return 0.0;
if (paid up=="C")
       return 0.0;
double result = exp_pup_fix / 12.
                               * expense_inflation(t)
                               * policies_curr
                               * surv_pup_cnt(t-1);
double margin = 0.;
```

```
if(margin_add=="Y")
       margin = margin_exp_ren_fix;
return result * (1 + margin / 100.);
6.1.1.3.1.245
                 expense_ren_perc
if (t <= commence_period_w || t > maturity_period_ann)
       return 0.0;
// % of premium expenses are assumed to be
// payable at the same frequency as the premium
double result = 0.0;
double index = expense_inflation(t);
if (eq(submodel, "TERM")) {
       double temp = surv_act_prm(t-1);
       // ltc pups should not have expenses if ((eq(life->ben_class,"dd") || eq(life-
>ben_class,"ltc")) && surv(t-1)>0.)
       if (eq( ben_class,"dd") && surv_prm(t-1)>0.)
               temp = (term - > surv_2(t-1) + surv_prm(t-1)); // to calculate expenses for secondary
lives
       result = (exp_ren_perc_prem /100. * prem_curr_if/12. * temp
                      + exp_ren_perc_annuity/100. * claims_annuity(t))*index;
}
else
{
       result = (exp_ren_perc_prem / 100. * premium_gross(t)
                             + exp_ren_perc_annuity/100. * claims_annuity(t))*index;
}
double margin = 0.;
if(margin_add=="Y")
       margin = margin_exp_ren_pc;
return result * (1 + margin / 100.);
6.1.1.3.1.246
                 expense_ren_perc_ann
if (t <= commence_period_w || t > maturity_period_ann)
       return 0.0;
double result = 0.0;
result = exp_ren_perc_annuity/100. * claims_annuity(t) * expense_inflation(t);
double margin = 0.;
if(margin add=="Y")
       margin = margin_exp_ren_pc;
return result * (1 + margin / 100.);
```

6.1.1.3.1.247 expense_ren_perc_bef_ret

```
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
// % of premium expenses are assumed to be
// payable at the same frequency as the premium
double result = 0.0;
double index = expense_inflation(t);
if (eq(company, "hasne")){
if (margin_add_discount == "Y" && eq(submodel, "TERM"))
       result = (exp_ren_perc_prem / 100. * term->prem_gross_no_scen(t)
                      + exp_ren_res / 1200. * reserve_bef_ret(t) *
free_inv_prop_t[proj_year(t)])*index;
result = (exp_ren_perc_prem / 100. * premium_gross(t)
                             //+ exp_ren_res / 1200. * reserve(t) * free_inv_prop_t[proj_year(t)]
                             + exp_ren_res / 1200. * reserve_bef_ret(t) *
free_inv_prop_t[proj_year(t)])*index;
else
{
       double temp = surv_act_prm(t-1);
       // ltc pups should not have expenses if ((eq(life->ben_class,"dd") || eq(life-
>ben_class,"ltc")) && surv(t-1)>0.)
       if (eq( ben_class,"dd") && surv_prm(t-1)>0.)
              temp = (term->surv_2(t-1)+surv_prm(t-1)); // to calculate expenses for secondary
lives
       result = (exp_ren_perc_prem /100. * prem_curr_if/12. * temp
                      + exp_ren_res / 1200. * reserve_bef_ret(t) *
free_inv_prop_t[proj_year(t)])*index;
}
double margin = 0.;
if(margin_add=="Y")
       margin = margin_exp_ren_pc;
return result * (1 + margin / 100.);
6.1.1.3.1.248
                 expense ren_perc_bef_ret_no_inv
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
// % of premium expenses are assumed to be
// payable at the same frequency as the premium
double result = 0.0;
double index = expense inflation(t);
if (eq(company, "hasne")){
```

```
if (margin_add_discount == "Y" && eq(submodel, "TERM"))
       result = (exp_ren_perc_prem / 100. * term->prem_gross_no_scen(t))*index;
result = (exp_ren_perc_prem / 100. * premium_gross(t))*index;
else
{
       double temp = surv_act_prm(t-1);
       // ltc pups should not have expenses if ((eq(life->ben class, "dd") || eq(life-
>ben_class,"ltc")) && surv(t-1)>0.)
       if (eq( ben_class,"dd") && surv_prm(t-1)>0.)
               temp = (term - > surv_2(t-1) + surv_prm(t-1)); // to calculate expenses for secondary
lives
       result = (exp_ren_perc_prem /100. * prem_curr_if/12. * temp)*index;
}
double margin = 0.;
if(margin add=="Y")
       margin = margin_exp_ren_pc;
return result * (1 + margin / 100.);
6.1.1.3.1.249
                 comm_claw_spv
/*The amount of this cashflow in period t is equal to the accumulated commission
amount, in respect of currently inforce policies, at the end of period t-1 multiplied
by the total of lapsing policies and policies becoming pup in period t-1.
Initial commission is clawed back only after the policy has been in force
for greater than one period.
if (t-1 <= commence_period_w)</pre>
       return 0.0;
if (prem_term == 1) // avoid clawback when single premium policy "gets paid-up"
       return 0.0;
// Clawback is not calculated once a policy has become paid-up.
if (inlist(paid_up, "Y,G"))
       return 0.0;
if (amala pikuach 0 == 0.0 && amala pikuach 1 == 0.0)
       return 0.0;
// temp = policies lapsing or becoming paid-up in period
double temp = surv_act_prm(t-2) * (lapse_rate_act_prm_dep(t-1) + pup_rate_prm_dep(t-1));
double result = 0.0;
if (t+elapsed_months-1 +elapsed_months_extra<= 72)</pre>
       result = comm_claw_prpn_spv[t+elapsed_months+elapsed_months_extra-1] / 100.* comm_spv_cum(t-
1);
if (surv_prm(commence_period_w) == 0)
```

```
return 0;
return result * temp / surv_prm(commence_period_w);
6.1.1.3.1.250
                 comm_spv_cum
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
if(surv_act_prm(t-1)<0.0000001)</pre>
       return comm_spv_cum(t-1);
return comm_spv_cum(t-1)
              + comm_supervisor(t) * surv_prm(commence_period_w) / surv_act_prm(t-1);
6.1.1.3.1.251
                 comm_supervisor
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
int extra yrs = xint(elapsed months extra/12.+0.5);
double prem_base = pol_fee(t) + premium(t);
double temp = 1.0; // used to make commission in 1st year all paid in 1st month
if (eq(submodel,"TRAD")) {
       prem_base= premium(t)/(1.+ tat_shnatiut_rate/100.);
                    // for TRAD supervisor commission is only paid in year 1
if (xint(pol year(t)+extra yrs)==1 && prod yr w >= 2004) {
       if (xint(pol_month(t))==1)
              temp = prem_freq;
       else
              temp = 0.;
       }
              //end if (xint(
return temp * (prem base + premium extra(t))
       * basic_perc(t)*comm_spvisor[xint(pol_year(t))+extra_yrs]/ 100.;
6.1.1.3.1.252
                 reserve_increase
if (t <= commence_period_w || t > maturity_period_ann)
       return 0.0;
if (t==1)
              // add in initial reserve difference
       return reserve(t) - reserve(t-1) + reserve_opening_difference ;
return reserve(t) - reserve(t-1);
6.1.1.3.1.253
                 reserve_increase_bef_ret
if (t <= commence_period_w || t > maturity_period_ann || eq(paid_up, "G"))
       return 0.0;
if(mult_age_ind == 1){
```

```
if(t == 1){
       if(ann_index_map.count(retirement_age_lookup(t)) != 0)
              if(t == sm_annuity[ann_index_map[retirement_age_lookup(t)]]->maturity_period_w)
                      if(sm_annuity[ann_index_map[retirement_age_lookup(t)]]->reserve_basic(t) !=
0)
                             return sm_annuity[ann_index_map[retirement_age_lookup(t)]]-
>reserve_basic(t) + reserve_bef_ret(t) - reserve_bef_ret(t-1) + reserve_opening_difference;
       return reserve_bef_ret(t) - reserve_bef_ret(t-1) + reserve_opening_difference;// add in
initial reserve difference
       }
if(ann_index_map.count(retirement_age_lookup(t)) != 0)
       if(t == sm_annuity[ann_index_map[retirement_age_lookup(t)]]->maturity_period_w)
              if(sm_annuity[ann_index_map[retirement_age_lookup(t)]]->reserve_basic(t) != 0)
                      return sm_annuity[ann_index_map[retirement_age_lookup(t)]]->reserve_basic(t)
+ reserve_bef_ret(t) - reserve_bef_ret(t-1);
return reserve_bef_ret(t) - reserve_bef_ret(t-1);}
return reserve_increase(t);
                 reserve_increase_pv
6.1.1.3.1.254
if (t <= commence_period_w || t > maturity_period_ann)
       return 0.0;
if (mult_age_ind != 1){
       int proj_yr = xint(proj_year(t+1));
       if(eq(projection_type_int, "Rollup"))
              proj_yr = xint(proj_year_rollup(t+1));
       if ( t >= maturity_period_w)
              return
                         (reserve_increase_pv(t+1) + reserve_increase(t+1))*
ann_v_month_t[proj_yr];
                  (reserve_increase_pv(t+1) + reserve_increase(t+1))* v_month_t[proj_yr];
}
return reserve_increase_pv_active(t)
              + reserve_increase_pv_deferred(t)
              + reserve increase pv inpay(t);
6.1.1.3.1.255
                 reserve_total_increase_pv
if (t < commence_period_w || t > maturity_period_ann)
       return 0.0;
return reserve_increase_pv(t) - reserve_re_increase_pv(t);
6.1.1.3.1.256
                 cashflow
if (t <= commence_period_w || t > maturity_period_ann)
```

```
return 0.0;
return cashflow_b(t) + cashflow_e(t);
6.1.1.3.1.257
                 cashflow_b
if (t <= commence_period_w || t > maturity_period_ann)
       return 0.0;
return income_b(t) - outgo_b(t);
6.1.1.3.1.258
                 cashflow_e
if (t <= commence_period_w || t > maturity_period_ann)
       return 0.0;
return income_e(t) - outgo_e(t);
6.1.1.3.1.259
                 cashflow_profit
if (t <= commence_period_w || t > maturity_period_ann)
       return 0.0;
return cashflow_b(t) + cashflow_e(t);
6.1.1.3.1.260
                 cashflow_profit_bef_ret
if (t <= commence_period_w || t > maturity_period_ann)
       return 0.0;
return cashflow_b_bef_ret(t) + cashflow_e(t);
                 profit_book_active_vif
6.1.1.3.1.261
if (t <= commence_period_w || t > maturity_period_ann || eq(paid_up, "G"))
       return 0.0;
if(mult_age_ind == 1)
       return profit_book_vif_bef_ret(t);
return (cashflow(t) + investment income(t)
              - reserve_increase(t) + reserve_re_increase(t));
6.1.1.3.1.262
                 profit_book_bef_ret
if (t <= commence_period_w || t > maturity_period_ann)
       return 0.0;
if (mult_age_ind!= 1)
       return 0.0;
return cashflow_b_bef_ret(t)
              + cashflow_e(t)
              + investment_income_bef_ret(t)
              - reserve_increase_bef_ret(t)
              + reserve_re_increase(t)
              + dac_increase(t);
6.1.1.3.1.263
                 profit book vif
if (t <= commence_period_w || t > maturity_period_ann)
```

```
return 0.0;
if(mult_age_ind == 1)
       return profit_book_vif_post_ret(t) + profit_book_vif_bef_ret(t);
return (cashflow(t) + investment_income(t)
              - reserve_increase(t) + reserve_re_increase(t) );
6.1.1.3.1.264
                 profit book vif bef ret
if (t <= commence_period_w || t > maturity_period_ann)
       return 0.0;
return (cashflow profit bef ret(t) + investment income bef ret(t)
              - reserve_increase_bef_ret(t) + reserve_re_increase(t));
6.1.1.3.1.265
                 profit_book_vif_gross
if (t <= commence_period_w || t > maturity_period_ann)
       return 0.0;
return cashflow(t)
              + investment_income(t)
              - reserve_increase(t)
              + cashflow_re_b(t)
              + cashflow_re_e(t);
6.1.1.3.1.266
                 profit book vif gross pv
if (t < commence_period_w || t >= maturity_period_ann)
     return 0.0;
if (mult_age_ind != 1){
       int proj_yr = xint(proj_year(t+1));
       if(eq(projection_type_int, "Rollup"))
              proj_yr = xint(proj_year_rollup(t+1));
       if ( t >= maturity_period_w)
              return (profit_book_vif_gross(t+1) + profit_book_vif_gross_pv(t+1)) *
ann_v_month_t[proj_yr];
       return (profit_book_vif_gross(t+1) + profit_book_vif_gross_pv(t+1)) * v_month_t[proj_yr];
}
return profit_book_vif_gross_pv_active(t)
              + profit_book_vif_pv_deferred(t)
              + profit_book_vif_pv_inpay(t);
6.1.1.3.1.267
                 profit_book_vif_post_ret
if (t <= commence_period_w || t > maturity_period_ann)
       return 0.0;
return sm_annuity->profit_book_vif_post_ret(t);
```

6.1.1.3.1.268 profit_book_vif_pv_pos if (t < commence_period_w || t >= maturity_period_ann || inlist(paid_up, "C,G")) return 0.0; int proj_yr = xint(proj_year(t+1)); if(eq(projection_type_int, "Rollup")) proj_yr = xint(proj_year_rollup(t+1)); if (mult_age_ind !=1){ if (t >= maturity period w) return 0.0; return max(profit_book_vif_pv(t) - res_ann_deficiency(t), 0.0); } double new_ret = 0.0; if(ann index map.count(retirement age lookup(t)) != 0){ if(t == sm_annuity[ann_index_map[retirement_age_lookup(t)]]->maturity_period_w) new_ret = sm_annuity[ann_index_map[retirement_age_lookup(t)]]->profit_book_vif_post_ret_pv(t); } return max(profit_book_vif_pv_active(t) + profit_book_vif_pv_deferred(t) - new_ret res_ann_deficiency(t), 0.0); 6.1.1.3.1.269 profit_gross_vif if (t <= commence_period_w || t > maturity_period_ann) return 0.0; return profit_book_vif_gross(t) * (1 - tax_rate/ 100.); 6.1.1.3.1.270 profit_gross_vif_pv if (t < commence_period_w || t >= maturity_period_ann) return 0.0; if (mult_age_ind != 1){ int proj_yr = xint(proj_year(t+1)); if(eq(projection_type_int, "Rollup")) proj_yr = xint(proj_year_rollup(t+1)); if (t >= maturity_period_w) return (profit_gross_vif(t+1) + profit_gross_vif_pv(t+1))* ann_v_month_t[proj_yr]; return (profit_gross_vif(t+1) + profit_gross_vif_pv(t+1))* v_month_t[proj_yr]; } return profit_gross_vif_pv_active(t) + profit net vif pv deferred(t) + profit_net_vif_pv_inpay(t);

6.1.1.3.1.271 profit_net_vif

```
if (t <= commence_period_w || t > maturity_period_ann)
       return 0.0;
//check why need to add these
double temp = bonus_shimur(t);
temp = cal_month(t);
temp = cal year(t);
temp = cashflow_profit(t);
temp = claims_annuity_gt(t);
temp = claims_annuity_nogt(t);
temp = claims_insurance(t);
temp = comm_profit(t);
temp = comm_reg(t);
temp = coverage_units(t);
temp = coverage units re(t);
temp = expense clm(t);
temp = expense_init(t);
temp = expense_ren(t);
temp = int_cred(t);
temp = management_fees_fixed_ann(t);
temp = management_fees_var_ann(t);
temp = mgt_fees_prem(t);
temp = prem_insurance(t);
temp = prem_savings(t);
temp = units for takeup(t);
temp = premium_gross_fix(t);
temp = premium_gross_var(t);
temp = claims_lrc_q1(t);
temp = claims_lrc_q2(t);
temp = claims_lrc_q3(t);
temp = claims_lrc_q4(t);
temp = claims lrc yr2plus(t);
temp = claims_re_lrc_q1(t);
temp = claims_re_lrc_q2(t);
temp = claims_re_lrc_q3(t);
temp = claims_re_lrc_q4(t);
temp = claims_re_lrc_yr2plus(t);
temp = expense_claims_lrc_q1(t);
temp = expense_claims_lrc_q2(t);
temp = expense_claims_lrc_q3(t);
temp = expense_claims_lrc_q4(t);
temp = expense_claims_lrc_yr2plus(t);
temp = claims_maturity_ret(t);
temp = expense_total_pre_ret_no_inv(t);
temp = expense_ren_perc_bef_ret_no_inv(t);
temp = expense_investment_post_ret(t);
temp = expense_investment_bef_ret(t);
temp = term->surv_2(t);
temp = term->surv_2_no_dec(t);
temp = cashflow b post ret(t);
temp = units b bef(t);
```

```
temp = units_for_takeup(t);
temp = comm_hekef_net(t);
temp = riskadj_gross_rel_q1(t);
temp = riskadj_gross_rel_q2(t);
temp = riskadj_gross_rel_q3(t);
temp = riskadj_gross_rel_q4(t);
temp = riskadj_gross_rel_yr2plus(t);
temp = riskadj_re_rel_q1(t);
temp = riskadj_re_rel_q2(t);
temp = riskadj_re_rel_q3(t);
temp = riskadj_re_rel_q4(t);
temp = riskadj_re_rel_yr2plus(t);
temp = surv_cnt(t);
temp = reserve_claims_retent(t);
temp = claims retent(t);
temp = sum insured occ retent(t);
temp = sum insured occ gross(t);
temp = management_fee_variable(t);
temp = units_b(t);
temp = reserve_manual;
temp = riskadj_net(t);
temp = policy_surr(t);
return (profit_book_vif(t))
               * (1- tax_rate/ 100.);
                 profit vif net bef ret
6.1.1.3.1.272
if (t <= commence_period_w || t > maturity_period_ann)
       return 0.0;
return (profit_book_vif_bef_ret(t))
               * (1- tax_rate / 100.);
6.1.1.3.1.273
                 comm_dac
if(submodel == "ANN")
       return NO_AVG;
if (t <= commence_period_w || t > mat_period_original)
       return 0.0;
// theorotical renewal commission, even before comm_renewal_year
double renew reduc=0.0;
renew reduc = premium gross(t) *
                ( (comm_regular_pc[15] + comm_ren_perc_prem +comm_nihul_rate[16])* basic_perc(t) +
                   comm_ren_perc_sav * (1. - basic_perc(t)) ) /100.
              * (1+vat/100.);
return max(0, comm_nihul(t) + comm_regular(t)
               - renew_reduc + comm_prize(t));
6.1.1.3.1.274
                 dac_book
if(paid up=="Y" && t>0)
       return NO_AVG;
```

```
if (eq(dac_type_temp,"il_dac"))
       return dac_il_book(t);
if (eq(dac_type_temp,"zillmer")){
       if (zillmer\_book(0) > 0.)
               return zillmer_book(t) * dac_tax_inforce/zillmer_book(0);
       else
               if (prem_term_original > elapsed_months)
               return max(0. , dac_tax_inforce * (prem_term_original - elapsed_months - t) /
(prem_term_original - elapsed_months) );
       }
return 0.0;
6.1.1.3.1.275
                 dac il book
if (t <= commence_period_w || t + elapsed_months + elapsed_months_extra >= dac_amort_per ||
!eq(dac_type_temp,"il_dac"))
       return 0.0;
// If rollup projection then adjust DAC until valuation date
if (t<=0 && eq(projection_type, "Rollup")) {</pre>
       if (surv_act_prm(t-1)<0.000001)</pre>
              return 0.0;
       return (dac_il_book(t-1) + (exp_dac(t)+comm_dac(t))*dac_book_adj_factor/100. )
               * surv_act_prm(t)/surv_act_prm(t-1)
               * (1.-1./(dac_amort_per - elapsed_months - elapsed_months_extra - t+1));
       }
// If start of projection then use starting DAC balance
if (t==0 && eq(projection_type,"Valn"))
              return dac_book_inforce;
if (surv_act_prm(t-1)<0.000001)</pre>
       return 0.0;
return (dac_il_book(t-1) + exp_dac(t)+comm_dac(t))* surv_act_prm(t)/surv_act_prm(t-1)
                      * (1.-1./(dac_amort_per - elapsed_months - elapsed_months_extra - t+1));
6.1.1.3.1.276
                 dac il tax
if (t <= commence_period_w || t >= mat_period_original || surv_act_prm(t) < 0.000001)
       return 0.0;
double result = 0.0;
double dac_in_month = 0.0;
// option :"immediate 1 year amortisation" for expenses in 1st cal.year
       for (int i = 0; i <= min(t + elapsed months + elapsed months extra - 1,
                                            dac_amort_per_tax-12+xint(cal_month(t))-1); i++) {
         if(surv act prm(t-i-1)<0.000001) dac in month = 0;
         else {
               // expense paid during the 1st cal. year
               if (xint(cal_year(t-i))==xint(cal_year(commence_period_w+1))) {
                       // dac calculated during the 1st cal year
```

```
if(xint(cal_year(t))==xint(cal_year(commence_period_w+1)) && surv_act_prm(t-
i-1) != 0 && dac_amort_per_tax != 0)
                        dac in month = (exp dac(t-i)+comm dac(t-i))*surv act prm(t)/surv act prm(t-
i-1)
                                     *( dac_amort_per_tax - 12) / (dac_amort_per_tax);
                      else if (surv_act_prm(t-i-1) != 0 && dac_amort_per_tax != 0 &&
dac_amort_per_tax-12 != 0)// dac calc. after the 1st cal year
                        dac_in_month = (exp_dac(t-i)+comm_dac(t-i))*surv_act_prm(t)/surv_act_prm(t-
i-1)
                                     *( dac_amort_per_tax - 12) / (dac_amort_per_tax)
                                    *( 1. - (12*(xint(cal_year(t))-
xint(cal_year(commence_period_w+1))-1)
                                    +cal_month(t)) /(dac_amort_per_tax-12));
              }
              else if (surv_act_prm(t-i-1) != 0 && dac_amort_per_tax + 1 - xint(cal_month(t-i)) !=
     expense paid after the 1st cal. year
                      dac_in_month = (exp_dac(t-i)+comm_dac(t-i))*surv_act_prm(t)/surv_act_prm(t-i-
1)
                             *(dac_amort_per_tax + 1 - xint(cal_month(t-i))-(i+1))/
                             (dac_amort_per_tax + 1 - xint(cal_month(t-i)));
         }
              result += dac in month;
       }
return result;
6.1.1.3.1.277
                 dac_increase
if (t <= commence_period_w || t > mat_period_original)
       return 0.0;
return dac book(t) - dac book(t-1);
6.1.1.3.1.278
                 dac_tax
if(paid_up=="Y")
       return NO AVG;
if (eq(dac_type_temp,"il_dac")) {
       if (surv_act_prm(0)<0.000001)
              return 0.0;
       if (eq(projection_type,"Valn")) {
              if(dac_il_tax(0)>SMALL_DOUBLE && elapsed_months_extra==0) // if elapsed_months_extra
> 0 then dac-tax formula does not work because commencement period is based on tarif-date
                      return dac_il_tax(t) * dac_tax_inforce/dac_il_tax(0);
              else
                      return dac_tax_inforce * max(24-t,0)/24. *surv_act_prm(t)/surv_act_prm(0);
       }
       else { // rollup
              return dac_il_tax(t) *dac_tax_adj_factor/100.;
       }
}
if (eq(dac_type_temp,"zillmer")) {
       if(zillmer_tax(0)>SMALL_DOUBLE)
```

```
return zillmer_tax(t) * dac_tax_inforce/zillmer_tax(0);
       else {
               if (surv_act_prm(0)<0.000001)</pre>
                      return 0.0;
               return dac_tax_inforce * max(36-t,0)/36. *surv_act_prm(t)/surv_act_prm(0);
       }
return 0.0;
                 dac_tax_increase
6.1.1.3.1.279
if (t <= commence_period_w || t > mat_period_original)
       return 0.0;
return dac_tax(t) - dac_tax(t-1);
6.1.1.3.1.280
                 exp_dac
if (t <= commence_period_w || t > mat_period_original)
       return 0.0;
return (expense_initial_fix(t) + expense_initial_perc(t)) * exp_dac_perc / 100.
               + comm_supervisor(t);
6.1.1.3.1.281
                 zillmer book
if (t <= commence_period_w || t >= mat_period_original)
       return 0.0;
if (submodel == "TERM")
       return NO_AVG;
if (submodel=="TRAD")
       return trad->zillmer_book(t);
if (eq(dac_type_temp,"zillmer")){
       if(xint(pol_year(t))<=10) {</pre>
               row_char = policy_type+"_g";
               double rate = zillmer_pr_tbl;
               return rate /100.* 12
                         * premium(t)* min(1.,basic_perc(t));
       }
       else
               return 0.0;
}
return 0.0;
6.1.1.3.1.282
                 zillmer_tax
if (submodel=="TERM")
       return NO_AVG;
if (submodel=="TRAD")
       return trad->zillmer_tax(t);
if (t <= commence_period_w || t >= maturity_period_w)
```

```
return 0.0;
if (eq(dac_type_temp,"zillmer")){
       if(xint(pol_year(t))<=10) {</pre>
               row_char = policy_type+"_t";
               double rate = zillmer_pr_tbl;
               return rate /100.* 12
                              * premium(t)* min(1.,basic_perc(t));
       }
       else
               return 0.0;
return 0.0;
6.1.1.3.1.283
                 bor_acc
if (t < 0 || t > maturity_period_w)
       return 0.0;
if (mgt fee variable == 0 || submodel != "UNIT" || par nonpar != "P")
       return 0;
if(t==0 && mgt_deficit_perc < 0. && paid_up == "N"){</pre>
       //Initial bor as % of reserve
       return units_e(t) * mgt_deficit_perc *(-1.) * mgt_fee_variable/100.; //Bor is managed as
positive number
}
if (t== 0)
       return 0.0;
if(har_acc(t) > 0)
       return 0; //No bor if there is har
double bor = 0.0;
bor = bor_acc(t-1)
               * (1. - decrement rate unit(t-1));
if (net_interest_rate(t) < 0.0){</pre>
       double new_bor = - (sm_accum->units_b(t) + sm_saving->units_b(t)) * net_interest_rate(t) *
mgt_fee_variable/100.;
       if (har_return(t) > 0)
               new_bor = max(new_bor - har_return(t), 0);
       bor = bor
               + new_bor; //Addition to bor
```

```
}
if (net_interest_rate(t) > 0.0)
       bor = bor + bor_return(t); //Bor returned
//Add bor passed to pup
//Remove bor passed to pup
       bor = bor
                      - (
                      bor_acc(t-1)
                      * pup_rate_bal_dep(t-1)
                      * surv_per_ret(t-1)
                      );
return max(bor, 0.0);//Shouldn't really be possible for bor to be negative, but just in case
6.1.1.3.1.284
                 bor_acc_pup
if (t < 0 || t > maturity_period_w)
       return 0.0;
if (mgt_fee_variable == 0 || submodel != "UNIT" || par_nonpar != "P")
       return 0;
if(t==0 && mgt_deficit_perc < 0. && paid_up == "Y"){</pre>
       //Initial bor as % of reserve
       return units_e(t) * mgt_deficit_perc *(-1.) * mgt_fee_variable/100.; //Bor is managed as
positive number
}
if (t==0)
       return 0.0;
if(har_acc_pup(t) > 0)
       return 0; //No bor if there is har
double bor = 0.0;
bor = bor_acc_pup(t-1)
              * (1. - decrement_rate_unit_pup(t-1));
if (net_interest_rate(t) < 0.0){</pre>
```

```
double new_bor = - (sm_acc_pup->units_b(t) + sm_saving_pup->units_b(t)) *
net_interest_rate(t) * mgt_fee_variable/100.;
       if (har_return_pup(t) > 0)
              new_bor = max(new_bor - har_return_pup(t), 0);
       bor = bor
              + new_bor; //Addition to bor
}
if (net_interest_rate(t) > 0.0)
       bor = bor + bor_return_pup(t); //Bor returned
//Add bor passed to pup
if (t == 1 && gross_up_historic=="N")
bor = bor + (bor_acc(t-1) * pup_rate_bal_dep(t) * surv_per_ret(t-1));
bor = bor + (bor_acc(t-1) * pup_rate_bal_dep(t-1) * surv_per_ret(t-1));
return max(bor, 0.0);//Shouldn't really be possible for bor to be negative, but just in case
6.1.1.3.1.285
                 bor_har_retire
if (t <= commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (submodel == "TERM" || par_nonpar == "N")
       return 0.0;
if (submodel == "ANN"){
       if (t==0)
              return mgt_deficit_perc * resinforce * mgt_fee_variable; //Is this correct? Probably
it doesn't matter as long as it's consistent
       return 0.0; //No new annuities coming in after t=0
}
if (t == 0)
       return 0.0;
if (retirement_prop(t-1) == 0)
       return 0.0; //Not a retirement period
if (submodel == "TRAD"){
       double bor = (trad->bor_acc(t-1) * (1. - lapse_rate_act_bal(t-1))
                                    + trad->bor_acc_pup(t-1) * (1. - lapse_rate_pup_bal(t-1))
                                    + trad->bor_acc_mat(t-1)
                                     * (1. - death_rate(t-1))
```

```
* retirement_prop(t-1)
                                     * (-1.);
       double har = 0.0;
       if (cal_month(t) != 1)
              har = (trad->har_acc(t-1) * (1. - lapse_rate_act_bal(t-1))
                             + trad->har_acc_pup(t-1) * (1. - lapse_rate_pup_bal(t-1))
                             + trad->har_acc_mat(t-1)
                             * (1. - death_rate(t-1))
                             * retirement_prop(t-1);
       return bor + har;
}
double bor = (bor_acc(t-1) * (1 - lapse_rate_act_bal(t-1))
                             + bor_acc_pup(t-1) * (1 - lapse_rate_pup_bal(t-1))
                             * (1 - death_rate(t-1))
                             * retirement_prop(t-1)
                             *(-1.); //Bor is accumulated as a positive
double har = 0.0;
if (cal_month(t) != 1) //If it is January, it won't pass to annuity anyway
       har = (
                      har_acc(t-1) * (1 - lapse_rate_act_bal(t-1))
                      + har_acc_pup(t-1) * (1 - lapse_rate_pup_bal(t-1))
                      * (1 - death_rate(t-1))
                      * retirement_prop(t-1);
return bor + har;
6.1.1.3.1.286
                 bor_return
if (t <= 0 || t > maturity_period_w || submodel != "UNIT" || par_nonpar != "P")
       return 0.0;
double mgt_fee_pos = 0.0; //Management fees available for return
if (net_interest_rate(t) < 0.0 || bor_acc(t-1) == 0.0)</pre>
       return 0.0;
mgt_fee_pos = -mgt_var_no_bor(t); //Management fees from current month available to repay bor
return max(mgt_fee_pos,
                      bor_acc(t-1) * (-1.) * (1.- decrement_rate_unit(t-1))); //Cannot return more
than outstanding bor
```

```
6.1.1.3.1.287
                 bor return pup
if (t <= 0 || t > maturity period w || submodel != "UNIT" || par nonpar != "P")
       return 0.0;
double mgt_fee_pos = 0.0; //Management fees available for return
if (net_interest_rate(t) < 0.0 || bor_acc_pup(t-1) == 0.0)</pre>
       return 0.0;
mgt_fee_pos = -mgt_var_no_bor_pup(t); //Management fees from current month available to repay bor
return max(mgt_fee_pos-new_pup_har_ret(t),
                       bor\_acc\_pup(t-1) \ * \ (-1.) \ * \ (1.- \ decrement\_rate\_unit\_pup(t-1))); \ //Cannot
return more than outstanding bor
6.1.1.3.1.288
                 har acc
if (t < 0 || t > maturity_period_w || mgt_fee_variable == 0 || submodel != "UNIT" || par_nonpar !=
       return 0.0;
if(t==0 && paid_up == "N"){
       if(life->cal_month(t) == 12. || life->mgt_deficit_perc < 0)</pre>
               return 0.0; //If year-end, no accumulation. If there is bor, no accumulation
       return (sm_accum->units_e(t) + sm_saving->units_e(t) ) * life->mgt_deficit_perc *
mgt_fee_variable/100.;
}
double har = 0;
if(cal\ month(t) > 1)
       har = har_acc(t-1)
                      * (1.-decrement rate unit(t-1));
har = har + management_fee_variable(t); //management fees paid this month
//har = har - har_return(t); //Deduct management fees returned
//Remove har passed to pup
       if(cal\ month(t) > 1)
       har = har
                      - har_acc(t-1)
                      * pup_rate_bal_dep(t-1)
                      * surv_per_ret(t-1);
return max(har, 0);
6.1.1.3.1.289
                 har_acc_pup
if (t < 0 || t > maturity_period_w || mgt_fee_variable == 0 || submodel != "UNIT" || par_nonpar !=
"P" || bor_acc_pup(t-1)>0)
       return 0.0;
```

```
if(t==0 && paid_up == "Y"){
       if(life->cal_month(t) == 12. || life->mgt_deficit_perc < 0)</pre>
               return 0.0; //If year-end, no accumulation. If there is bor, no accumulation
       return (sm_acc_pup->units_e(t) + sm_saving_pup->units_e(t) ) * life->mgt_deficit_perc *
mgt_fee_variable/100.;
}
if(t == 1 && paid_up == "N"){
       if (bor_acc(t-1) * pup_rate_bal_dep(t-1) * surv_per_ret(t-1) > 0)
               return 0.0;
}
double har = 0;
if(cal\_month(t) > 1)
       har = har_acc_pup(t-1)
                      * (1.-decrement_rate_unit_pup(t-1));
har = har + management_fee_variable_pup(t); //management fees paid this month
//Remove har passed to pup
       if(cal_month(t) > 1)
       har = har
                      + har_acc(t-1)
                      * pup_rate_bal_dep(t-1)
                      * surv_per_ret(t-1);
return max(har, 0);
6.1.1.3.1.290
                 har_return
if (t <= 0 || t > maturity_period_w || mgt_fee_variable == 0 || submodel != "UNIT" || par_nonpar !=
       return 0.0;
if (har_acc(t-1) == 0.0)
       return 0; //Nothing collected to return
if (net_interest_rate(t) > 0.0)
       return 0.0; //No need to return if interest is positive
if (cal_month(t) == 1)
       return 0.0; //Do not carry over to new year
double har_ret = net_interest_rate(t) * mgt_fee_variable/100.
                              * (sm_accum->units_b(t) + sm_saving->units_b(t))
                             * (-1.); // Management fees that should be returned
```

```
return min(har_ret,
                     har_acc (t-1)
                      * (1 - decrement_rate_unit(t-1))); //Cannot return more than accumulated har
for that year
6.1.1.3.1.291
                 har_return_pup
if (t <= 0 || t > maturity_period_w || mgt_fee_variable == 0 || submodel != "UNIT" || par_nonpar !=
       return 0.0;
if (har_acc_pup(t-1) == 0.0)
       return 0; //Nothing collected to return
if (net_interest_rate(t) > 0.0)
       return 0.0; //No need to return if interest is positive
if (cal\ month(t) == 1)
       return 0.0; //Do not carry over to new year
double har_ret = net_interest_rate(t) * mgt_fee_variable/100.
                             * (sm_acc_pup->units_b(t) + sm_saving_pup->units_b(t))
                             * (-1.); // Management fees that should be returned
return min(har ret,
                     har_acc_pup (t-1)
                      * (1 - decrement_rate_unit_pup(t-1))); //Cannot return more than accumulated
har for that year
6.1.1.3.1.292
                 manage_fees_fixe_active_pv
if (t < commence_period_w || t >= maturity_period_ann)
       return 0.0;
int proj yr = xint(proj year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return (management_fees_fixed_active(t+1)
              + manage_fees_fixe_active_pv(t+1) )
              * v_month_t[proj_yr];
6.1.1.3.1.293
                 manage_fees_fixed_ann_pv
return manage_fees_fixed_ann_pv_def(t)
              + manage_fees_fixed_ann_pv_ip(t);
6.1.1.3.1.294
                 manage_fees_fixed_ann_pv_def
if (t < commence_period_w || t > maturity_period_ann || mult_age_ind !=1)
       return 0.0;
double new_ret = 0.0;
int proj_yr = xint(proj_year(t+1));
```

```
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
if(ann_index_map.count(retirement_age_lookup(t)) != 0){
       if(t == sm_annuity[ann_index_map[retirement_age_lookup(t)]]->maturity_period_w)
              new_ret = sm_annuity[ann_index_map[retirement_age_lookup(t)]]->mgt_fee_fixed_pv(t);
}
return manage_fees_fixed_ann_pv_def(t+1) * v_month_t[proj_yr] + new_ret;
6.1.1.3.1.295
                 manage_fees_fixed_ann_pv_ip
if (t < commence_period_w || t > maturity_period_ann)
       return 0.0;
if(eq(paid_up, "G"))
       return sm_annuity->mgt_fee_fixed_pv(t);
if( mult_age_ind != 1)
       return 0.0;
double ann_in_pay = 0.0;
for (int i=0; i < sm_annuity.size(); i++){</pre>
       if(t > sm_annuity[i]->maturity_period_w)
              ann_in_pay = ann_in_pay + sm_annuity[i]->mgt_fee_fixed_pv(t);
}
return ann_in_pay;
6.1.1.3.1.296
                 manage_fees_var_active_pv
if (t < commence_period_w || t >= maturity_period_ann)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return (management_fees_var_active(t+1)
              + manage_fees_var_active_pv(t+1) )
              * v_month_t[proj_yr];
6.1.1.3.1.297
                 manage_fees_var_ann_pv
return manage_fees_var_ann_pv_def(t)
              + manage_fees_var_ann_pv_ip(t);
6.1.1.3.1.298
                 manage_fees_var_ann_pv_def
if (t < commence_period_w || t > maturity_period_ann || mult_age_ind !=1)
       return 0.0;
double new_ret = 0.0;
int proj_yr = xint(proj_year(t+1));
```

```
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
if(ann_index_map.count(retirement_age_lookup(t)) != 0){
       if(t == sm_annuity[ann_index_map[retirement_age_lookup(t)]]->maturity_period_w)
              new_ret = sm_annuity[ann_index_map[retirement_age_lookup(t)]]->mgt_fee_var_pv(t);
}
return manage_fees_var_ann_pv_def(t+1) * v_month_t[proj_yr] + new_ret;
6.1.1.3.1.299
                 manage_fees_var_ann_pv_ip
if (t < commence_period_w || t > maturity_period_ann )
       return 0.0;
if(eq(paid_up, "G"))
       return sm_annuity->mgt_fee_var_pv(t);
if(mult_age_ind != 1)
       return 0.0;
double ann_in_pay = 0;
for (int i=0; i < sm_annuity.size(); i++){</pre>
       if(t > sm_annuity[i]->maturity_period_w)
              ann_in_pay = ann_in_pay + sm_annuity[i]->mgt_fee_var_pv(t);
}
return ann_in_pay;
6.1.1.3.1.300
                 management_fee_variable
if (t <= 0 || t > maturity_period_w || mgt_fee_variable == 0 || submodel != "UNIT" || par_nonpar !=
       return 0.0;
double mgt_var = mgt_var_no_bor(t);
//if (net interest rate(t) > 0.0)
//
       mgt_var = net_interest_rate(t)
//
                             * (sm_accum->units_b(t) + sm_saving->units_b(t) )
//
                             * mgt_fee_variable/100.; // Management fee (assuming no adjustment)
mgt_var = mgt_var + bor_return(t); //Deduct bor to be returned
mgt_var = max(mgt_var, 0);
mgt_var = mgt_var - har_return(t); //Can be negative
if (abs(mgt_var) < SMALL_DOUBLE)</pre>
       return 0.0; //Remove small rounding issues
return mgt_var;
```

```
6.1.1.3.1.301
                 management fee variable pup
if (t <= 0 || t > maturity_period_w || mgt_fee_variable == 0 || submodel != "UNIT" || par nonpar !=
       return 0.0;
if(t == 1 && paid up == "N"){
       if (bor_acc(t-1) * pup_rate_bal_dep(t-1) * surv_per_ret(t-1) > 0)
               return 0.0;
}
double mgt_var = mgt_var_no_bor_pup(t);
//if (net_interest_rate(t) > 0.0)
       mgt_var = net_interest_rate(t)
//
                             * (sm_acc_pup->units_b(t) + sm_saving_pup->units_b(t) )
//
//
                             * mgt_fee_variable/100.; // Management fee (assuming no adjustment)
mgt_var = mgt_var + bor_return_pup(t); //Deduct bor to be returned
mgt_var = max(mgt_var, 0);
mgt_var = mgt_var - har_return_pup(t); //Can be negative
if (abs(mgt_var) < SMALL_DOUBLE)</pre>
       return 0.0; //Remove small rounding issues
return mgt_var;
6.1.1.3.1.302
                 management_fees_fixed_active
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
if (submodel == "UNIT")
       return sm_accum->management_fee_fixed(t)
                     + sm_acc_pup->management_fee_fixed(t)
                      + sm_saving->management_fee_fixed(t)
                      + sm_saving_pup->management_fee_fixed(t);
if (submodel == "TRAD")
       return trad->mgt_fee_fix(t)
                      + trad->mgt_fee_fix_mat(t)
                      + trad->mgt_fee_fix_pup(t);
return 0.0;
6.1.1.3.1.303
                 management_fees_fixed_ann
if (t < commence_period_w || t > maturity_period_ann)
       return 0.0;
double mgt fee = 0.0;
for (int i=0; i < sm_annuity.size(); i++){</pre>
```

```
if(t > sm_annuity[i]->maturity_period_w)
               mgt_fee = mgt_fee + sm_annuity[i]->mgt_fee_fixed_dth(t)
                                                   + sm_annuity[i]->mgt_fee_fixed_gtd(t)
                                                   + sm_annuity[i]->mgt_fee_fixed_jl1(t)
                                                   + sm_annuity[i]->mgt_fee_fixed_jl2(t)
                                                   + sm_annuity[i]->mgt_fee_fixed_nogt(t)
}
return mgt_fee;
6.1.1.3.1.304
                 management_fees_var_active
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
if (submodel == "UNIT")
       return sm_accum->management_fee_variable(t)
                     + sm_acc_pup->management_fee_variable(t)
                      + sm_saving->management_fee_variable(t)
                      + sm_saving_pup->management_fee_variable(t);
if (submodel == "TRAD")
       return trad->mgt_fee_var(t)
                      + trad->mgt_fee_var_mat(t)
                      + trad->mgt_fee_var_pup(t);
return 0.0;
6.1.1.3.1.305
                 management_fees_var_ann
if (t < commence_period_w || t > maturity_period_ann)
       return 0.0;
double mgt_fee = 0.0;
for (int i=0; i < sm_annuity.size(); i++){</pre>
       if(t > sm_annuity[i]->maturity_period_w)
              mgt fee = mgt fee + sm annuity[i]->mgt fee var dth(t)
                                                   + sm annuity[i]->mgt fee var gtd(t)
                                                   + sm_annuity[i]->mgt_fee_var_jl1(t)
                                                   + sm_annuity[i]->mgt_fee_var_jl2(t)
                                                   + sm_annuity[i]->mgt_fee_var_nogt(t)
}
return mgt_fee;
```

}

return ann_in_pay;

6.1.1.3.1.306 net interest rate if (t <= commence_period_w || t >= maturity_period_w || submodel != "UNIT" || mgt_fee_variable == 0 || par_nonpar == "N") return 0.0; double temp_inv_rate_m = 0.0; int proj_yr = xint(proj_year(t)); if(eq(projection_type_int, "Rollup")) proj_yr = xint(proj_year_rollup(t)); proj_yr = max(proj_yr, 0); if (margin_add_asset == "Y" && t == 1 && par_nonpar == "P") temp_inv_rate_m = asset_shock; else temp_inv_rate_m = inv_rate_mth_t[proj_yr]; return (1+temp_inv_rate_m) * (1- mgt_fee_fixed/1200.) -1.; 6.1.1.3.1.307 new_pup_har_ret if (t $< 0 \mid |$ t > maturity_period_w || mgt_fee_variable == 0 || submodel != "UNIT" || par_nonpar != "P") return 0.0; double har = 0; $if(cal_month(t) > 1)$ har = har acc(t-1)* pup rate bal dep(t-1) * surv_per_ret(t-1); return max(har, 0); 6.1.1.3.1.308 cashflow_pv_inpay if (t < commence_period_w || t > maturity_period_ann) return 0.0; if (mult_age_ind != 1) return 0.0; double ann_in_pay = 0; for (int i=0; i < sm_annuity.size(); i++){</pre> if(t > sm_annuity[i]->maturity_period_w) ann_in_pay = ann_in_pay + sm_annuity[i]->cashflow_pv(t);

6.1.1.3.1.309 cashflow_pv_inpay_chetz if (t < commence_period_w || t > maturity_period_ann) return 0.0; if (mult_age_ind != 1) return 0.0; double ann_in_pay = 0; for (int i=0; i < sm_annuity.size(); i++){</pre> if(t > sm_annuity[i]->maturity_period_w) ann_in_pay = ann_in_pay + sm_annuity[i]->cashflow_pv_ifrs(t)*(1-max_chetz) + sm_annuity[i]->cashflow_pv_res(t)*max_chetz; } return ann_in_pay; 6.1.1.3.1.310 cashflow_pv_inpay_e if (t < commence_period_w || t > maturity_period_ann) return 0.0; if (mult_age_ind != 1) return 0.0; double ann_in_pay = 0; for (int i=0; i < sm_annuity.size(); i++){</pre> if(t > sm annuity[i]->maturity period w) ann_in_pay = ann_in_pay + sm_annuity[i]->cashflow_pv_e(t); } return ann_in_pay; 6.1.1.3.1.311 claims_annuity_nogt_pv_inpay if (t < commence_period_w || t >= t_high || mult_age_ind != 1) return 0.0; double ann_in_pay = 0; for (int i=0; i < sm_annuity.size(); i++){</pre> if(t > sm_annuity[i]->maturity_period_w) ann_in_pay = ann_in_pay + sm_annuity[i]->claims_annuity_nogt_pv(t); } return ann_in_pay; 6.1.1.3.1.312 claims_annuity_pv_inpay if (t < commence_period_w || t >= t_high || mult_age_ind != 1) return 0.0;

```
double ann_in_pay = 0;
for (int i=0; i < sm_annuity.size(); i++){</pre>
       if(t > sm_annuity[i]->maturity_period_w)
               ann_in_pay = ann_in_pay + sm_annuity[i]->claims_annuity_pv(t);
}
return ann_in_pay;
                 claims_lrc_yr2plus_pv
6.1.1.3.1.313
if (t < commence_period_w || t >= maturity_period_w || eq(paid_up,"C"))
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
           (claims_lrc_yr2plus_pv(t+1) + claims_lrc_yr2plus(t+1))
return
                      * v month t[proj yr];
6.1.1.3.1.314
                 claims_pv_not_annuity
if (t < commence_period_w || t >= t_high || mult_age_ind != 1)
       return 0.0;
int proj yr = xint(proj year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
           (claims_pv_not_annuity(t+1)
return
                      + claims_total(t+1) - claims_annuity(t+1))
                      * v_month_t[proj_yr];
6.1.1.3.1.315
                 claims_rate_per
if(t<=commence_period_w || t > maturity_period_w || eq(paid_up, "G"))
       return 0.0;
if (submodel == "TERM")
       return term->claims_rate_per(t);
if (submodel == "TRAD")
       return trad->claims_rate_per(t);
double maturity_rate = 0.0;
double surr_rate = 0.0;
double dth_rate = 0.0;
//Maturity
if (mult_age_ind == 1){
       maturity_rate = surv_cnt_bef_ret(t) * retirement_prop(t) * benefits_curr;
}
else
{//Not part of multi-age retirement
```

```
if (t == maturity_period_w)
               maturity_rate = (surv_act_cnt(t-1) + surv_pup_cnt(t-1)) * benefits_curr;
}
//surv_val is the inforce item after the surrenders have occurred
if(surv_per_cnt(t) >0.0)
       surr_rate = (surv_act_cnt(t-1) * lapse_rate_act_cnt_dep(t)
                             + surv_pup_cnt(t-1) * lapse_rate_pup_cnt_dep(t))
                             * benefits_curr;
//Death
if(surv_cnt(t-1) > 0.0)
       dth_rate = surv_cnt(t-1) * benefits_curr * death_rate(t);
return maturity_rate + surr_rate + dth_rate;
6.1.1.3.1.316
                 expense_pv_inpay
if (t < commence_period_w || t > maturity_period_ann || mult_age_ind != 1)
       return 0.0;
double ann_in_pay = 0;
for (int i=0; i < sm_annuity.size(); i++){</pre>
       if(t > sm_annuity[i]->maturity_period_w)
               ann_in_pay = ann_in_pay + sm_annuity[i]->expense_ren_perc_post_ret_pv(t);
}
return ann_in_pay;
6.1.1.3.1.317
                 investment_income_pv_inpay
if (t < commence_period_w || t > maturity_period_ann || mult_age_ind != 1 )
       return 0.0;
double ann_in_pay = 0;
for (int i=0; i < sm_annuity.size(); i++){</pre>
       if(t > sm_annuity[i]->maturity_period_w)
              ann_in_pay = ann_in_pay + sm_annuity[i]->investment_income_pv(t);
}
return ann_in_pay;
6.1.1.3.1.318
                 outgo_pv_inpay
if (t < commence_period_w || t > maturity_period_ann || mult_age_ind != 1)
       return 0.0;
double ann in pay = 0;
for (int i=0; i < sm_annuity.size(); i++){</pre>
       if(t > sm_annuity[i]->maturity_period_w)
```

```
ann_in_pay = ann_in_pay + sm_annuity[i]->outgo_b_post_ret_pv(t);
}
return ann_in_pay;
6.1.1.3.1.319
                 profit_book_pv_inpay
if (t < commence_period_w || t > maturity_period_ann || mult_age_ind != 1 )
       return 0.0;
double ann_in_pay = 0;
for (int i=0; i < sm_annuity.size(); i++){</pre>
       if(t > sm_annuity[i]->maturity_period_w)
               ann_in_pay = ann_in_pay + sm_annuity[i]->profit_book_pv(t);
}
return ann_in_pay;
6.1.1.3.1.320
                 profit_book_vif_pv_inpay
if (t < commence_period_w || t > maturity_period_ann || mult_age_ind != 1 )
       return 0.0;
double ann_in_pay = 0;
for (int i=0; i < sm annuity.size(); i++){</pre>
       if(t > sm annuity[i]->maturity period w)
               ann_in_pay = ann_in_pay + sm_annuity[i]->profit_book_vif_post_ret_pv(t);
}
return ann_in_pay;
6.1.1.3.1.321
                 profit_net_vif_pv_inpay
if (t < commence period w || t > maturity period ann || mult age ind != 1 )
       return 0.0:
double ann_in_pay = 0;
for (int i=0; i < sm_annuity.size(); i++){</pre>
       if(t > sm_annuity[i]->maturity_period_w)
               ann_in_pay = ann_in_pay + sm_annuity[i]->profit_net_vif_post_ret_pv(t);
}
return ann_in_pay;
6.1.1.3.1.322
                 reserve_increase_pv_inpay
if (t < commence_period_w || t > maturity_period_ann || mult_age_ind != 1 )
       return 0.0;
double ann_in_pay = 0;
for (int i=0; i < sm_annuity.size(); i++){</pre>
```

```
if(t > sm_annuity[i]->maturity_period_w)
              ann_in_pay = ann_in_pay + sm_annuity[i]->reserve_increase_pv(t);
}
return ann_in_pay;
6.1.1.3.1.323
                 comm_clawback_pv
if (t < commence_period_w || t >= maturity_period_w)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return comm_clawback_pv (t+1) * v_month_t[proj_yr]
         + comm_clawback(t+1);
6.1.1.3.1.324
                 comm_reg_pv
if (t < commence_period_w || t>= maturity_period_w)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return comm reg pv(t+1) * v month t[proj yr]
              + comm regular(t+1);
6.1.1.3.1.325
                 decrement_rate_unit
if (t <= commence_period_w || t > maturity_period_w || submodel != "UNIT" || mgt_fee_variable == 0)
       return 0.0;
return 1.-
              (1.-death rate(t))
              *(1.-prem termination prop(t)) //Money exits active fund at premium termination rate
              *(1.-lapse_rate_act_bal(t));
6.1.1.3.1.326
                 decrement_rate_unit_pup
if (t <= commence_period_w || t > maturity_period_w || submodel != "UNIT" || mgt_fee_variable == 0)
       return 0.0;
return 1.-
              (1.-death rate(t))
              *(1.-retirement_prop(t)) //Money exits active fund at retirement rate
              *(1.-lapse_rate_pup_bal(t));
6.1.1.3.1.327
                 duration_denominator
if (t < 0 || t > maturity_period_ann)
       return 0.0;
 int proj_yr = xint(proj_year(t+1));
       if(eq(projection_type_int, "Rollup"))
              proj_yr = xint(proj_year_rollup(t+1));
return (duration_denominator(t+1)
```

```
+ surv_cnt(t+1) )
               * v_month_t[proj_yr];
6.1.1.3.1.328
                 duration_numerator
if (t < 0 || t > maturity_period_ann)
       return 0.0;
 int proj_yr = xint(proj_year(t+1));
       if(eq(projection_type_int, "Rollup"))
               proj_yr = xint(proj_year_rollup(t+1));
return (duration_numerator(t+1)
              + (t+1) * surv_cnt(t+1) )
               * v_month_t[proj_yr];
6.1.1.3.1.329
                 surv_act_bal
if (t < commence_period_w || t >= maturity_period_w)
       return NO_AVG;
if (submodel=="TERM")
       return surv_cnt(t);
if (inlist(paid_up,"Y,C,G"))
       return NO_AVG;
// The proportion of full premium paying policies
// remaining in force at the end of the period.
if (surv\_per\_act\_bal(t)<0.0) // if all decrements are greater than 1 (e.g. because of forced lapse)
       return NO_AVG;
if (decrements_apply =="N")
       return 1.0;
if (t > 0 \&\& fabs(surv_act_bal(t-1)) < .0000001)
       return NO AVG;
if (t == 0)
       return 1.0;
if (t > 0)
       return surv_act_bal(t-1) * surv_per_act_bal(t);
if( t < 0){
       if (gross_up_historic=="Y") {
               if (surv_per_act_bal(t+1) == 0)
                      return 0;
                      else
                      return surv_act_bal(t+1) / surv_per_act_bal(t+1); }
       else
               return surv_act_bal(t+1);
}
return 0.0; //Unconditional return
```

6.1.1.3.1.330 surv_act_bal_bef_ret if (t < commence_period_w || t > maturity_period_w || paid_up != "N" || submodel != "TRAD") return NO AVG; if (surv_per_act_bal(t)<0.0) // if all decrements are greater than 1 (e.g. because of forced lapse) return NO_AVG; if (t == 0 || decrements_apply =="N") return 1.0; if (t > 0 && surv_act_bal_bef_ret(t-1) < .0000001)</pre> return NO_AVG; if (t > 0)return surv_act_bal(t-1) * surv_per_act_bal_bef_ret(t); $if(t < 0){$ if (gross_up_historic=="Y") { if (surv_per_act_bal_bef_ret(t+1) == 0) return 0; else return surv_act_bal_bef_ret(t+1) / surv_per_act_bal_bef_ret(t+1); } else return surv_act_bal_bef_ret(t+1); } return 0.0; 6.1.1.3.1.331 surv_act_cnt if (t < commence_period_w || t >= maturity_period_w) return NO_AVG; if (submodel=="TERM") return surv_cnt(t); if (inlist(paid_up, "Y,C,G")) return NO_AVG; // The proportion of full premium paying policies // remaining in force at the end of the period. if (surv per act cnt(t)<0.0) // if all decrements are greater than 1 (e.g. because of forced lapse) return NO AVG; if (decrements_apply =="N") return 1.0; if $(t > 0 \&\& fabs(surv_act_cnt(t-1)) < .0000001)$ return NO_AVG; if (t == 0)return 1.0; if (t > 0)return surv_act_cnt(t-1) * surv_per_act_cnt(t);

```
if(t < 0){
       if (gross_up_historic=="Y") {
               if (surv_per_act_cnt(t+1) == 0)
                      return 0;
                      else
                      return surv_act_cnt(t+1) / surv_per_act_cnt(t+1); }
       else
              return surv_act_cnt(t+1);
}
return 0.0; //Unconditional return
6.1.1.3.1.332
                 surv_act_cnt_bef_ret
if (t < commence_period_w || t > maturity_period_w || paid_up != "N" )
       return NO_AVG;
if (surv_per_act_cnt(t)<0.0) // if all decrements are greater than 1 (e.g. because of forced lapse)
       return NO_AVG;
if (decrements apply =="N")
       return 1.0;
if (t > 0 && surv_act_cnt_bef_ret(t-1) < .0000001)</pre>
       return NO_AVG;
if (t == 0)
       return 1.0;
       return surv_act_cnt(t-1) * surv_per_act_cnt_bef_ret(t);
if(t < 0){
       if (gross_up_historic=="Y") {
               if (surv_per_act_cnt_bef_ret(t+1) == 0)
                      return 0;
               return surv act cnt bef ret(t+1) / surv per act cnt bef ret(t+1); }
       else
              return surv_act_cnt_bef_ret(t+1);
}
return 0.0;
6.1.1.3.1.333
                 surv_act_post_ret
if (t < commence_period_w || t > maturity_period_w)
       return NO_AVG;
if(t == mat_period_original)
       return 1.;
return (1. - death_rate(t)) * (surv_per_ret(t-1));
6.1.1.3.1.334
                 surv_act_prm
if (t < commence_period_w || t >= maturity_period_w)
       return NO_AVG;
```

```
if (submodel=="TERM")
       return surv_prm(t);
if (inlist(paid_up,"Y,C,G"))
       return NO_AVG;
// The proportion of full premium paying policies
// remaining in force at the end of the period.
if (surv_per_act_prm(t)<0.0) // if all decrements are greater than 1 (e.g. because of forced lapse)
       return NO_AVG;
if (decrements apply =="N")
       return 1.0;
if (t > 0 \&\& fabs(surv_act_prm(t-1)) < .0000001)
       return NO_AVG;
if (t == 0)
       return 1.0;
if (t > 0)
       return surv_act_prm(t-1) * surv_per_act_prm(t);
if(t < 0){
       if (gross_up_historic=="Y") {
               if (surv_per_act_prm(t+1) == 0)
                      return 0;
                      else
                      return surv_act_prm(t+1) / surv_per_act_prm(t+1); }
       else
               return surv_act_prm(t+1);
}
return 0.0; //Unconditional return
6.1.1.3.1.335
                 surv_act_prm_bef_ret
if (t < commence_period_w || t > maturity_period_w || paid_up != "N" || submodel != "TRAD")
       return NO AVG;
if (surv_per_act_prm(t)<0.0) // if all decrements are greater than 1 (e.g. because of forced lapse)
       return NO_AVG;
if (decrements_apply =="N")
       return 1.0;
if (t > 0 && surv_act_prm_bef_ret(t-1) < .0000001)</pre>
       return NO_AVG;
if (t == 0)
       return 1.0;
if (t > 0)
       return surv_act_prm(t-1) * surv_per_act_prm_bef_ret(t);
```

```
if( t < 0){
       if (gross_up_historic=="Y") {
               if (surv_per_act_prm_bef_ret(t+1) == 0)
                      return 0;
                      else
               return surv_act_prm_bef_ret(t+1) / surv_per_act_prm_bef_ret(t+1); }
       else
               return surv_act_prm_bef_ret(t+1);
}
return 0.0;
6.1.1.3.1.336
                 surv_bal
if (t < commence_period_w || t > maturity_period_w)
       return NO_AVG;
if (submodel=="TERM")
       return term->surv(t);
if (decrements_apply =="N")
       return 1.0;
if (t > 0 ) {
       if (fabs(surv_bal(t-1)) < .0000001)</pre>
               // No surv in previous period
               return NO_AVG;
}
// In the experience model.
return surv_act_bal(t) + surv_pup_bal(t);
6.1.1.3.1.337
                 surv_bal_bef_ret
if (t < commence_period_w || t > maturity_period_w || submodel != "TRAD")
       return NO_AVG;
if (decrements_apply =="N")
       return 1.0;
if (t > 0 && surv_bal_bef_ret(t-1) < .0000001)</pre>
       return NO_AVG;
return surv_act_bal_bef_ret(t) + surv_pup_bal_bef_ret(t);
6.1.1.3.1.338
                 surv_cnt
if (t < commence_period_w || t > maturity_period_w)
       return NO_AVG;
if (submodel=="TERM")
       return term->surv(t);
if (decrements apply =="N")
       return 1.0;
if (t > 0 ) {
       if (fabs(surv_cnt(t-1)) < .0000001)</pre>
               // No surv in previous period
```

```
return NO_AVG;
}
// In the experience model.
return surv_act_cnt(t) + surv_pup_cnt(t);
6.1.1.3.1.339
                 surv_cnt_bef_ret
if (t < commence_period_w || t > maturity_period_w)
       return NO_AVG;
if (decrements_apply =="N")
       return 1.0;
if (t > 0 \&\& surv\_cnt\_bef\_ret(t-1) < .0000001)
       return NO_AVG;
return surv_act_cnt_bef_ret(t) + surv_pup_cnt_bef_ret(t);
6.1.1.3.1.340
                 surv_per_act_bal
// Assume decrements are distributed uniformly within
// period of the projection.
if (t <= commence_period_w || t >= maturity_period_w)
       return NO_AVG;
if (decrements apply =="N")
       return 1.0;
if (t > 0 \&\& surv bal(t-1) < .0000001)
       return NO_AVG;
if (t <= 0 && (gross_up_historic=="N"))</pre>
       return 1.0;
if (eq(submodel,"UNIT"))
       if (prod_code == "sav-r")
              if(t >= mat_period_original)
                     return 0.;
if (t <= 0)
       return (1. - death_rate(t))
               * (1. - lapse_rate_act_bal(t) );
if ((death ben w=="N") && (submodel=="TERM"))
       return lapse_rate_act_bal(t) * (1. - death_rate(t)) * (1. - term->decrem_rate(t));
// dependant/indep. ... Consistent with claims paid? ***
return (1. - death rate(t))
       * (1. - lapse_rate_act_bal(t) - pup_rate_bal(t)) // creates circular referance ?
       * (1. - prem_termination_prop(t));// creates circular referance ?
                 surv_per_act_bal_bef_ret
if (t <= commence period w || t > maturity period w || submodel != "TRAD")
       return NO_AVG;
if (decrements_apply =="N")
```

```
return 1.0;
if (t > 0 \&\& surv_bal(t-1) < .0000001)
       return NO_AVG;
if (t <= 0 && (gross_up_historic=="N"))</pre>
       return 1.0;
if (t <= 0)
       return (1. - death_rate(t))
               * (1. - lapse_rate_act_bal(t) );
return (1. - death_rate(t))
       * (1. - lapse_rate_act_bal(t) - pup_rate_bal(t));
6.1.1.3.1.342
                 surv_per_act_cnt
// Assume decrements are distributed uniformly within
// period of the projection.
if (t <= commence_period_w || t >= maturity_period_w)
       return NO AVG;
if (decrements_apply =="N")
       return 1.0;
if (t > 0 \&\& surv_cnt(t-1) < .0000001)
       return NO_AVG;
if (t <= 0 && (gross_up_historic=="N"))</pre>
       return 1.0;
if (eq(submodel,"UNIT"))
       if (prod_code == "sav-r")
               if(t >= mat_period_original)
                      return 0.;
if (t <= 0)
       return (1. - death_rate(t))
               * (1. - lapse rate act cnt(t) );
if ((death ben w=="N") && (submodel=="TERM"))
       return lapse_rate_act_cnt(t) * (1. - death_rate(t)) * (1. - term->decrem_rate(t));
// dependant/indep. ... Consistent with claims paid? ***
return (1. - death_rate(t))
       * (1. - lapse_rate_act_cnt(t) - pup_rate_cnt(t)) // creates circular referance ?
       * (1. - prem_termination_prop(t));// creates circular referance ?
6.1.1.3.1.343
                 surv_per_act_cnt_bef_ret
if (t <= commence_period_w || t > maturity_period_w)
       return NO_AVG;
if (decrements_apply =="N")
       return 1.0;
if (t > 0 \&\& surv_cnt(t-1) < .0000001)
```

```
return NO_AVG;
if (t <= 0 && (gross_up_historic=="N"))</pre>
       return 1.0;
if (t <= 0)
       return (1. - death_rate(t))
               * (1. - lapse_rate_act_cnt(t) );
return (1. - death_rate(t))
       * (1. - lapse_rate_act_cnt(t) - pup_rate_cnt(t));
6.1.1.3.1.344
                 surv_per_act_prm
// Assume decrements are distributed uniformly within
// period of the projection.
if (t <= commence_period_w || t >= maturity_period_w)
       return NO AVG;
if (decrements_apply =="N")
       return 1.0;
if (t > 0 \&\& surv_prm(t-1) < .0000001)
       return NO_AVG;
if (t <= 0 && (gross_up_historic=="N"))</pre>
       return 1.0;
if (eq(submodel,"UNIT"))
       if (prod_code == "sav-r")
               if(t >= mat_period_original)
                      return 0.;
if (t <= 0)
       return (1. - death_rate(t))
               * (1. - lapse_rate_act_prm(t) );
if ((death ben w=="N") && (submodel=="TERM"))
       return lapse_rate_act_prm(t) * (1. - death_rate(t)) * (1. - term->decrem_rate(t));
// dependant/indep. ... Consistent with claims paid? ***
return (1. - death_rate(t))
       * (1. - lapse_rate_act_prm(t) - pup_rate_prm(t)) // creates circular referance ?
       * (1. - prem_termination_prop(t));// creates circular referance ?
6.1.1.3.1.345
                 surv_per_act_prm_bef_ret
if (t <= commence period w || t > maturity period w || submodel != "TRAD")
       return NO_AVG;
if (decrements_apply =="N")
       return 1.0;
if (t > 0 \&\& surv_prm(t-1) < .0000001)
       return NO AVG;
if (t <= 0 && (gross_up_historic=="N"))</pre>
```

```
return 1.0;
if (t <= 0)
       return (1. - death_rate(t))
               * (1. - lapse_rate_act_prm(t) );
return (1. - death_rate(t))
       * (1. - lapse_rate_act_prm(t) - pup_rate_prm(t));
6.1.1.3.1.346
                 surv_per_bal
if (t <= commence_period_w || t > maturity_period_w)
       return NO_AVG;
if (decrements_apply =="N")
       return 1.0;
if (t > 0 \&\& surv_bal(t-1) < .0000001)
       return NO AVG;
if ((t <= 0 && gross_up_historic=="N") || surv_bal(t-1)==0)</pre>
       return 1.0;
if (surv_bal(t-1) == 0)
               return 0;
return surv_bal(t)/surv_bal(t-1);
6.1.1.3.1.347
                 surv_per_bal_bef_ret
if (t <= commence_period_w || t > maturity_period_w || submodel != "TRAD")
       return NO_AVG;
if (decrements_apply =="N")
       return 1.0;
if (t > 0 && surv_bal_bef_ret(t-1) < .0000001)</pre>
       return NO_AVG;
if (t <= 0 && (gross_up_historic=="N"))</pre>
       return 1.0;
if(surv_bal(t-1) == 0)
       return 0.;
return surv_bal_bef_ret(t)/surv_bal(t-1);
6.1.1.3.1.348
                 surv_per_cnt
if (t <= commence_period_w || t > maturity_period_w)
       return NO_AVG;
if (decrements_apply =="N")
       return 1.0;
if (t > 0 \&\& surv_cnt(t-1) < .0000001)
       return NO_AVG;
if ((t <= 0 && gross_up_historic=="N") || surv_cnt(t-1)==0)</pre>
```

```
return 1.0;
if (surv_cnt(t-1) == 0)
               return 0;
return surv_cnt(t)/surv_cnt(t-1);
6.1.1.3.1.349
                 surv_per_prm_bef_ret
if (t <= commence_period_w || t > maturity_period_w || submodel != "TRAD")
       return NO_AVG;
if (decrements_apply =="N")
       return 1.0;
if (t > 0 \&\& surv_prm_bef_ret(t-1) < .0000001)
       return NO_AVG;
if (t <= 0 && (gross_up_historic=="N"))</pre>
       return 1.0;
if(surv prm(t-1) == 0)
       return 0.;
return surv_prm_bef_ret(t)/surv_prm(t-1);
6.1.1.3.1.350
                 surv_prm
if (t < commence_period_w || t > maturity_period_w)
       return NO_AVG;
if (submodel=="TERM")
       return term->surv(t);
if (decrements_apply =="N")
       return 1.0;
if (t > 0) {
       if (fabs(surv_prm(t-1)) < .0000001)
               // No surv in previous period
               return NO_AVG;
}
// In the experience model.
return surv_act_prm(t) + surv_pup_prm(t);
6.1.1.3.1.351
                 surv_prm_bef_ret
if (t < commence_period_w || t > maturity_period_w || submodel != "TRAD")
       return NO_AVG;
if (decrements_apply =="N")
       return 1.0;
if (t > 0 \&\& surv_prm_bef_ret(t-1) < .0000001)
       return NO AVG;
return surv_act_prm_bef_ret(t) + surv_pup_prm_bef_ret(t);
```

6.1.1.3.1.352 surv_pup_bal if (t < commence_period_w || t > maturity_period_w) return NO AVG; if (decrements_apply =="N") return 1.0; // *** this testing feature not handled perfectly (makes 100% prem-paying and 100% pups!) if $(t > 0 \&\& fabs(surv_bal(t-1)) < .0000001)$ return NO_AVG; if (paid_up=="Y" && t <= 0)</pre> return 1.0; if (t == 0 || t == commence_period_w) // and premium paying return NO_AVG; if (t < 0)return surv_pup_bal(t+1); if (eq(ben_class, "gimla") && prem_termination_prop(t) == 1.) return surv_pup_bal(t-1) * (1. - death_rate(t)) * (1. - lapse_rate_pup_bal(t)) * (surv_per_ret(t)) + surv_act_bal(t-1) * (1 - death_rate(t)) * (surv per ret(t)); $return \ surv_pup_bal(t-1) \ * \ (1. \ - \ death_rate(t)) \ * \ (1. \ - \ lapse_rate_pup_bal(t)) \ * \ (surv_per_ret(t))$ + surv_act_bal(t-1) * pup_rate_bal_dep(t) * (surv_per_ret(t)); 6.1.1.3.1.353 surv_pup_bal_bef_ret if (t < commence period w || t > maturity period w || submodel != "TRAD") return NO AVG; if (decrements_apply =="N" || (paid_up=="Y" && t <= 0))</pre> return 1.0; if $((t > 0 \&\& surv_bal(t-1) < .0000001) || t == 0 || t == commence_period_w)$ return NO_AVG; if (t < 0)return surv_pup_bal(t+1); return surv_pup_bal(t-1) * (1. - death_rate(t)) * (1. - lapse_rate_pup_bal(t)) + surv_act_bal(t-1) * pup_rate_bal_dep(t); 6.1.1.3.1.354 surv_pup_cnt if (t < commence_period_w || t > maturity_period_w) return NO_AVG; if (decrements_apply =="N") return 1.0; // *** this testing feature not handled perfectly (makes 100% prem-paying and 100% pups!) if $(t > 0 \&\& fabs(surv_cnt(t-1)) < .0000001)$ return NO AVG;

```
if (paid_up=="Y" && t <= 0)</pre>
       return 1.0;
if (t == 0 || t == commence_period_w) // and premium paying
if (t < 0)
       return surv_pup_cnt(t+1);
if (eq(ben_class, "gimla") && prem_termination_prop(t) == 1.)
       return \ surv\_pup\_cnt(t-1) \ * \ (1. \ - \ death\_rate(t)) \ * \ (1. \ - \ lapse\_rate\_pup\_cnt(t)) \ *
(surv_per_ret(t))
                                     + surv_act_cnt(t-1)
                                      * (1 - death_rate(t))
                                     * (surv_per_ret(t));
return surv pup cnt(t-1) * (1. - death rate(t)) * (1. - lapse rate pup cnt(t)) * (surv per ret(t))
                                     + surv_act_cnt(t-1) * pup_rate_cnt_dep(t) * (surv_per_ret(t));
6.1.1.3.1.355
                 surv_pup_cnt_bef_ret
if (t < commence_period_w || t > maturity_period_w )
       return NO_AVG;
if (decrements_apply =="N")
       return 1.0;
if (t > 0 \&\& surv\_cnt(t-1) < .0000001)
       return NO_AVG;
if (paid_up=="Y" && t <= 0)</pre>
       return 1.0;
if (t == 0 || t == commence_period_w)
       return NO_AVG;
if (t < 0)
       return surv_pup_cnt(t+1);
return surv_pup_cnt(t-1) * (1. - death_rate(t)) * (1. - lapse_rate_pup_cnt(t))
                                     + surv_act_cnt(t-1) * pup_rate_cnt_dep(t);
6.1.1.3.1.356
                 surv_pup_post_ret
if (t < commence_period_w || t > maturity_period_w)
       return NO AVG;
if(t == mat_period_original)
       return 1.;
return (1. - death_rate(t)) * (surv_per_ret(t-1));
6.1.1.3.1.357
                 surv_pup_prm
if (t < commence period w || t > maturity period w)
       return NO AVG;
if (decrements apply =="N")
```

```
return 1.0; // *** this testing feature not handled perfectly (makes 100% prem-paying and
100% pups!)
if (t > 0 \&\& fabs(surv_prm(t-1)) < .0000001)
       return NO_AVG;
if (paid_up=="Y" && t <= 0)</pre>
       return 1.0;
if (t == 0 || t == commence_period_w) // and premium paying
       return NO AVG;
if (t < 0)
       return surv_pup_prm(t+1);
if (eq(ben_class, "gimla") && prem_termination_prop(t) == 1.)
       return surv_pup_prm(t-1) * (1. - death_rate(t)) * (1. - lapse_rate_pup_prm(t)) *
(surv_per_ret(t))
                                     + surv_act_prm(t-1)
                                     * (1 - death_rate(t))
                                     * (surv_per_ret(t));
return surv_pup_prm(t-1) * (1. - death_rate(t)) * (1. - lapse_rate_pup_prm(t)) * (surv_per_ret(t))
                                     + surv_act_prm(t-1) * pup_rate_prm_dep(t) * (surv_per_ret(t));
6.1.1.3.1.358
                 surv_pup_prm_bef_ret
if (t < commence_period_w || t > maturity_period_w || submodel != "TRAD")
       return NO AVG;
if (decrements_apply =="N")
       return 1.0;
if (t > 0 \&\& surv_prm(t-1) < .0000001)
       return NO_AVG;
if (paid_up=="Y" && t <= 0)</pre>
       return 1.0;
if (t == 0 || t == commence_period_w)
       return NO AVG;
if (t < 0)
       return surv_pup_prm(t+1);
return surv_pup_prm(t-1) * (1. - death_rate(t)) * (1. - lapse_rate_pup_prm(t))
                                     + surv_act_prm(t-1) * pup_rate_prm_dep(t);
6.1.1.3.1.359
                 death_rate
if (t <= commence_period_w || t > maturity_period_w || eq(paid_up, "G"))
       return NO_AVG;
if (t <= 0 && (gross_up_historic=="N"))</pre>
       return 0.0;
if (submodel == "TRAD")
       return trad->death_rate(t);
```

```
int pol_yr = max(xint(pol_year(t)),1);
// Assume all lives die at omega age
if (age_last(t) >= omega_age_w)
       return 1.0;
double rate = 0.0;
// set column to allow for selection in mortality table
int col_temp = 0;
if (mort_sel_status=="Y")
       col_temp =min(pol_yr + xint(elapsed_months_extra/12.), select_periods);
else
       col_temp =select_periods;
death_rate_row_key =age_last(t) - col_temp+1;
col dth = col temp;
rate = death rates tbl;
rate = rate * mort_mult / 100.;
// Only apply the medical/occupational loading if there is a death benefit
if(death_ben_w=="Y")
       rate = rate * (1.+health_occ_perc/100.);
//************ add margin **********************
if (margin_add=="Y")
       rate = rate * (1+margin_mort_pc/100);
//Margin for catastrophe
if (margin_add_cat == "Y" && (eq(submodel, "UNIT") || death_ben_w == "Y" || eq(submodel,
"TRAD"))){//Only apply to savings and death risk
       double m_cat = 0;
       if (proj_year(t) == 1)
             m_cat = cat_risk;
       rate = rate + m_cat;
}
rate = max(0.0, min(1.0, rate));
return rate = (1. - pow(1. - rate, 1./12.));
6.1.1.3.1.360
                lapse_factor
if (t <= commence_period_w || t > maturity_period_w)
       return NO_AVG;
double rate = 0.0;
factor_key ="_"+company;
lapse_factor_y1_row = "Y1"+factor_key;
rate = lapse_factor_y1;
// column not found in lapse_factor_tbl
```

```
if(rate == -99999.) {
factor_key = "";
lapse_factor_y1_row = "Y1"+factor_key;
rate =lapse_factor_y1;
} // end if
if (pol_year_ext(t)>=2 && pol_year_ext(t)<6) {</pre>
lapse_factor_y_col = "Y2_5"+factor_key;
rate = lapse_factor_yplus;
if (pol_year_ext(t)>=6 ) {
lapse_factor_y_col = "Y6plus"+factor_key;
rate = lapse_factor_yplus;
}
return rate/100.0;
6.1.1.3.1.361
                 lapse_rate_act_bal
if (t <= commence_period_w || t > maturity_period_w)
       return NO AVG;
if (t <= 0 && gross_up_historic=="N")</pre>
       return 0.0;
if((mult_age_ind == 1 && age_last(t) >= min_retirement_age) || inlist(paid_up,"Y,C,G"))
               return 0.;
double Mass_rate = 0;
if(lapse_force_month >0 && lapse_force_month == t){
       if(lapse_force_rate == 1.)
              return 0.;
       Mass_rate = lapse_force_rate;
       }
double rate = 0.0;
if (inlist(submodel, "TERM"))
return term->lapse_rate(t);
lapse_type_col_key = "Surrender";
lapse_expos_col_key = "balance";
tarif_spec_row_key= xstring(tarif); //added to avoid mutating lookup term error
rate= lapse_rate_im/ 100.0;
rate = rate * lapse_factor(t) * lapse_factor_proj/100.0;
if(margin_add=="Y")
       rate = rate * (1. + margin_lapses/100.);
rate = 1. - pow((1. - rate), 1./12.);
rate = min(rate * (1-Mass_rate) + Mass_rate,0.999);
return rate;
```

```
6.1.1.3.1.362
                 lapse_rate_act_bal_dep
if (t <= commence_period_w || t > maturity_period_w)
       return NO_AVG;
if (death_ben_w=="N") {
  if (submodel=="TERM")
       return lapse_rate_act_bal(t) * (1. - death_rate(t)) * (1. - term->decrem_rate(t));
return lapse_rate_act_bal(t) * (1. - death_rate(t));
6.1.1.3.1.363
                 lapse_rate_act_cnt
if (t <= commence_period_w || t > maturity_period_w)
       return NO_AVG;
if (t <= 0 && gross_up_historic=="N")</pre>
       return 0.0;
if((mult_age_ind == 1 && age_last(t) >= min_retirement_age) || inlist(paid_up,"Y,C,G"))
              return 0.;
double Mass_rate = 0;
if(lapse_force_month >0 && lapse_force_month == t){
       if(lapse force rate == 1.)
              return 0.;
       Mass_rate = lapse_force_rate;
       }
double rate = 0.0;
if (inlist(submodel, "TERM"))
return term->lapse_rate(t);
lapse_type_col_key = "Surrender";
lapse_expos_col_key = "count";
tarif_spec_row_key= xstring(tarif); //added to avoid mutating lookup term error
rate= lapse_rate_im/ 100.0;
rate = rate * lapse_factor(t) * lapse_factor_proj/100.0 ;
if(margin add=="Y")
       rate = rate * (1. + margin_lapses/100.);
rate = 1. - pow((1. - rate), 1./12.);
rate = min(rate * (1-Mass_rate) + Mass_rate,0.999);
return rate;
6.1.1.3.1.364
                 lapse_rate_act_cnt_dep
if (t <= commence_period_w || t > maturity_period_w)
       return NO_AVG;
```

```
if (death_ben_w=="N") {
  if (submodel=="TERM")
       return lapse_rate_act_cnt(t) * (1. - death_rate(t)) * (1. - term->decrem_rate(t));
return lapse_rate_act_cnt(t) * (1. - death_rate(t));
6.1.1.3.1.365
                 lapse_rate_act_prm
if (t <= commence_period_w || t > maturity_period_w)
       return NO_AVG;
if (t <= 0 && gross_up_historic=="N")</pre>
       return 0.0;
if((mult_age_ind == 1 && age_last(t) >= min_retirement_age) || inlist(paid_up,"Y,C,G"))
              return 0.;
double Mass_rate = 0;
if(lapse_force_month >0 && lapse_force_month == t){
       if(lapse_force_rate == 1.)
              return 0.;
       Mass_rate = lapse_force_rate;
double rate = 0.0;
if (inlist(submodel, "TERM"))
return term->lapse_rate(t);
lapse_type_col_key = "Surrender";
lapse_expos_col_key = "premium";
tarif_spec_row_key= xstring(tarif); //added to avoid mutating lookup term error
rate= lapse_rate_im/ 100.0;
rate = rate * lapse_factor(t) * lapse_factor_proj/100.0;
if(margin add=="Y")
       rate = rate * (1. + margin_lapses/100.);
rate = 1. - pow((1. - rate), 1./12.);
rate = min(rate * (1-Mass_rate) + Mass_rate,0.999);
return rate;
6.1.1.3.1.366
                 lapse_rate_act_prm_dep
if (t <= commence_period_w || t > maturity_period_w)
       return NO_AVG;
if (death_ben_w=="N") {
  if (submodel=="TERM")
       return lapse_rate_act_prm(t) * (1. - death_rate(t)) * (1. - term->decrem_rate(t));
  }
return lapse_rate_act_prm(t) * (1. - death_rate(t));
```

if $(t > 0 \&\& fabs(surv_cnt(t-1)) < .0000001)$

return 0.0;

6.1.1.3.1.367 lapse_rate_pup_bal if (t <= commence_period_w || t > maturity_period_w) return NO AVG; if (t <= 0 && (gross_up_historic=="N"))</pre> return 0.0; if $(t > 0 \&\& fabs(surv_bal(t-1)) < .0000001)$ return 0.0; if (!inlist(submodel, "UNIT, TRAD")) //only for UNIT & TRAD return 0.0; if(mult_age_ind == 1 && age_last(t) >= min_retirement_age) return 0.; if (eq(submodel, "UNIT") && units_e_bef(t) <= 0.00001) // lapse policy if fund is zero or less return 1.; double Mass rate = 0; if(lapse force month >0 && lapse force month == t && lapse force rate < 1.) Mass_rate = lapse_force_rate; lapse_type_col_key = "Surrender"; lapse_expos_col_key = "balance"; tarif_spec_row_key= xstring(tarif); //added to avoid mutating lookup term error double rate = lapse_rate_pup_im / 100.0; double margin = 0.; if(margin_add=="Y") margin = margin_lapses; rate = min(0.999, rate * (1 + margin/100.));rate = 1. - pow((1. - rate), 1./12.);rate = min(rate * (1-Mass rate) + Mass rate,0.999); return rate; lapse_rate_pup_bal_dep 6.1.1.3.1.368 if (t <= commence period w || t > maturity period w) return NO AVG; return lapse_rate_pup_bal(t) * (1. - death_rate(t)); 6.1.1.3.1.369 lapse_rate_pup_cnt if (t <= commence_period_w || t > maturity_period_w) return NO_AVG; if (t <= 0 && (gross_up_historic=="N"))</pre> return 0.0;

```
if (!inlist(submodel,"UNIT,TRAD")) //only for UNIT & TRAD
       return 0.0;
if(mult_age_ind == 1 && age_last(t) >= min_retirement_age)
       return 0.;
if (eq(submodel,"UNIT") && units_e_bef(t) <= 0.00001 ) // lapse policy if fund is zero or less
       return 1.;
double Mass_rate = 0;
if(lapse_force_month >0 && lapse_force_month == t && lapse_force_rate < 1.)</pre>
       Mass_rate = lapse_force_rate;
lapse_type_col_key = "Surrender";
lapse expos col key = "count";
tarif_spec_row_key= xstring(tarif); //added to avoid mutating lookup term error
double rate = lapse_rate_pup_im / 100.0;
double margin = 0.;
if(margin_add=="Y")
       margin = margin_lapses;
rate = min(0.999, rate * (1 + margin/100.));
rate = 1. - pow((1. - rate), 1./12.);
rate = min(rate * (1-Mass_rate) + Mass_rate,0.999);
return rate;
6.1.1.3.1.370
                 lapse_rate_pup_cnt_dep
if (t <= commence_period_w || t > maturity_period_w)
       return NO_AVG;
return lapse_rate_pup_cnt(t) * (1. - death_rate(t));
6.1.1.3.1.371
                 lapse_rate_pup_prm
if (t <= commence_period_w || t > maturity_period_w)
       return NO_AVG;
if (t <= 0 && (gross_up_historic=="N"))</pre>
       return 0.0;
if (t > 0 \&\& fabs(surv_prm(t-1)) < .0000001)
       return 0.0;
if (!inlist(submodel,"UNIT,TRAD")) //only for UNIT & TRAD
       return 0.0;
if(mult_age_ind == 1 && age_last(t) >= min_retirement_age)
       return 0.;
if (eq(submodel, "UNIT") && units_e_bef(t) <= 0.00001 ) // lapse policy if fund is zero or less
       return 1.;
```

```
double Mass_rate = 0;
if(lapse_force_month >0 && lapse_force_month == t && lapse_force_rate < 1.)</pre>
       Mass_rate = lapse_force_rate;
lapse_type_col_key = "Surrender";
lapse_expos_col_key = "premium";
tarif_spec_row_key= xstring(tarif); //added to avoid mutating lookup term error
double rate = lapse_rate_pup_im / 100.0;
double margin = 0.;
if(margin_add=="Y")
       margin = margin lapses;
rate = min(0.999, rate * (1 + margin/100.));
rate = 1. - pow((1. - rate), 1./12.);
rate = min(rate * (1-Mass_rate) + Mass_rate,0.999);
return rate;
6.1.1.3.1.372
                 lapse_total_bal
if (t <= commence_period_w || t > maturity_period_w)
       return NO_AVG;
if (t <= 0 && gross_up_historic=="N")</pre>
       return 0.0;
if (t > 0 ) {
       if (fabs(surv_bal(t-1)) < .000000001)
               return 0.0;
       if (eq(submodel,"UNIT")) {
               if (units_e_bef(t) <= 0.00001) // lapse policy if fund is zero or less</pre>
                      return 1.;
               if (premium if b(t) <= 0.0 || prem termination prop(t) == 1.) // lapse policy if
premium for risk rider sold with Managers Meitav higher than total premium (i.e. not enough
premium)
                      return 1.;
               if (sm_accum->units_b_bef(t) + sm_accum->alloc_units(t)
                      + sm_saving->units_b_bef(t) + sm_saving->alloc_units(t)
                      <= cover charge(t))</pre>
                              return 1.; // lapse policy if (non paid-up) fund is less than cover
charges
               if (t+elapsed_months >= prem_term && t+elapsed_months < benefit_term)</pre>
                      return 0.; // when premiums cease then policy becomes paid-up
               // end if (eq(sub_model,"UNIT"))
} // end if (t > 0 )
double rate = 0.0;
if (eq(paid_up,"Y"))
```

```
rate = lapse_rate_pup_bal(t);
else {
double Annual_pup_rate = 1. - pow((1. - pup_rate_bal(t)), 12.);
double Annual_lapse_rate = 1. - pow((1. - lapse_rate_act_bal(t)), 12.);
rate = Annual_pup_rate + Annual_lapse_rate;
rate = min(0.999 ,rate);
rate = 1. - pow((1. - rate), 1./12.);}
if (t<=0)
       return rate;
//if(lapse force month >0 && lapse force month == t)
       //return lapse force rate;
return rate;
6.1.1.3.1.373
                 lapse_total_prm
if (t <= commence_period_w || t > maturity_period_w)
       return NO_AVG;
if (t <= 0 && gross_up_historic=="N")</pre>
       return 0.0;
if (t > 0) {
       if (fabs(surv_prm(t-1)) < .000000001)
               return 0.0;
       if (eq(submodel,"UNIT")) {
               if (units_e_bef(t) <= 0.00001) // lapse policy if fund is zero or less
                      return 1.;
               if (premium_if_b(t)<=0.0 || prem_termination_prop(t) == 1.) // lapse policy if
premium for risk rider sold with Managers Meitav higher than total premium (i.e. not enough
premium)
                      return 1.;
               if (sm_accum->units_b_bef(t) + sm_accum->alloc_units(t)
                      + sm_saving->units_b_bef(t) + sm_saving->alloc_units(t)
                      <= cover charge(t))</pre>
                              return 1.; // lapse policy if (non paid-up) fund is less than cover
charges
               if (t+elapsed_months >= prem_term && t+elapsed_months < benefit_term)</pre>
                      return 0.; // when premiums cease then policy becomes paid-up
               // end if (eq(sub_model,"UNIT"))
} // end if (t > 0 )
double rate = 0.0;
```

```
if (eq(paid_up,"Y"))
rate = lapse_rate_pup_prm(t);
else {
double Annual_pup_rate = 1. - pow((1. - pup_rate_prm(t)), 12.);
double Annual_lapse_rate = 1. - pow((1. - lapse_rate_act_prm(t)), 12.);
rate = Annual_pup_rate + Annual_lapse_rate;
rate = min(0.999 ,rate);
rate = 1. - pow((1. - rate), 1./12.);}
if (t<=0)
       return rate;
//if(lapse_force_month >0 && lapse_force_month == t)
       //Mass_rate = lapse_force_rate;
return rate;
6.1.1.3.1.374
                 pup_rate_bal
if (t <= commence_period_w || t > maturity_period_w)
       return NO_AVG;
if (eq(submodel, "UNIT"))
       if (t+elapsed_months >= prem_term && t+elapsed_months < benefit_term)</pre>
if (eq(submodel,"UNIT"))
       if (prod_code == "sav-r")
               if(t >= mat_period_original)
                      return 1.;
if(eq(submodel,"TRAD"))
       if(t > mat_period_original)
               return 1.;
if (inlist(submodel, "TERM") || eq(paid_up, "G"))
return 0.;
if (t <= 0 && gross_up_historic=="N")</pre>
       return 0.0;
// solvency II scenario purpose - for Lapse Mass no paid-up ( all surrender) , for EPIFP all paid-
if(lapse_force_month >0 && lapse_force_month == t){
       if(lapse_force_rate < 1.)</pre>
               return 0.;
       return 1.;
       }
if (t > 0 ) {
       if (fabs(surv_bal(t-1)) < .000000001)</pre>
               return 0.0;
```

```
//if (eq(sub_model,"UNIT") && surv_prem(t-1) > 0.) {
       if (eq(submodel,"UNIT") ) {
               if (units_e_bef(t) <= 0.00001) // lapse policy if fund is zero or less</pre>
                      return 1.;
               if (premium_if_b(t) <= 0.0 \mid prem_termination_prop(t) == 1.) // lapse policy if
premium for risk rider sold with Managers Meitav higher than total premium (i.e. not enough
premium)
                      return 1.;
               if (sm_accum->units_b_bef(t) + sm_accum->alloc_units(t)
                      + sm_saving->units_b_bef(t) + sm_saving->alloc_units(t)
                      <= cover_charge(t))</pre>
                              return 1.;
                                         // lapse policy if (non paid-up) fund is less than cover
charges
       }
}
if(eq(paid_up,"Y"))
       return 1.;
double rate = 0;
lapse_type_col_key = "PUP";
lapse expos col key = "balance";
tarif_spec_row_key= xstring(tarif); //added to avoid mutating lookup term error
rate= lapse_rate_im/ 100.0;
rate = rate * lapse_factor(t) * lapse_factor_proj/100.0;
if(margin_add=="Y")
       rate = rate * (1. + margin_lapses/100.);
rate = min(rate ,0.999);
return 1. - pow((1. - rate), 1./12.);
6.1.1.3.1.375
                 pup_rate_bal_dep
if (t <= commence period w || t > maturity period w)
       return NO_AVG;
if (eq(submodel,"UNIT"))
       if (t+elapsed_months >= prem_term && t+elapsed_months < benefit_term)</pre>
               return 1.;
return pup_rate_bal(t) * (1. - death_rate(t));
6.1.1.3.1.376
                 pup_rate_cnt
if (t <= commence_period_w || t > maturity_period_w)
       return NO AVG;
if (eq(submodel,"UNIT"))
       if (t+elapsed months >= prem term && t+elapsed months < benefit term)
               return 1.;
```

```
if (eq(submodel,"UNIT"))
       if (prod_code == "sav-r")
              if(t >= mat_period_original)
                      return 1.;
if(eq(submodel, "TRAD"))
       if(t > mat_period_original)
              return 1.;
if (inlist(submodel, "TERM") || eq(paid_up, "G"))
return 0.;
if (t <= 0 && gross_up_historic=="N")</pre>
       return 0.0;
// solvency II scenario purpose - for Lapse Mass no paid-up ( all surrender) , for EPIFP all paid-
if(lapse_force_month >0 && lapse_force_month == t){
       if(lapse_force_rate < 1.)</pre>
              return 0.;
       return 1.;
       }
if (t > 0) {
       if (fabs(surv_cnt(t-1)) < .000000001)
               return 0.0;
       //if (eq(sub_model,"UNIT") && surv_prem(t-1) > 0.) {
       if (eq(submodel,"UNIT") ) {
               if (units_e_bef(t) <= 0.00001) // lapse policy if fund is zero or less
                      return 1.;
               if (premium_if_b(t)<=0.0 || prem_termination_prop(t) == 1.) // lapse policy if
premium for risk rider sold with Managers Meitav higher than total premium (i.e. not enough
premium)
                      return 1.;
               if (sm_accum->units_b_bef(t) + sm_accum->alloc_units(t)
                      + sm_saving->units_b_bef(t) + sm_saving->alloc_units(t)
                      <= cover_charge(t))</pre>
                              return 1.;
                                         // lapse policy if (non paid-up) fund is less than cover
charges
       }
}
if(eq(paid_up,"Y"))
       return 1.;
double rate = 0;
lapse_type_col_key = "PUP";
lapse_expos_col_key = "count";
tarif_spec_row_key= xstring(tarif); //added to avoid mutating lookup term error
rate= lapse rate im/ 100.0;
rate = rate * lapse_factor(t) * lapse_factor_proj/100.0;
```

```
if(margin_add=="Y")
       rate = rate * (1. + margin_lapses/100.);
rate = min(rate ,0.999);
return 1. - pow((1. - rate), 1./12.);
6.1.1.3.1.377
                 pup_rate_cnt_dep
if (t <= commence_period_w || t > maturity_period_w)
       return NO_AVG;
if (eq(submodel, "UNIT"))
       if (t+elapsed_months >= prem_term && t+elapsed_months < benefit_term)</pre>
               return 1.;
return pup_rate_cnt(t) * (1. - death_rate(t));
6.1.1.3.1.378
                 pup_rate_prm
if (t <= commence_period_w || t > maturity_period_w)
       return NO_AVG;
if (eq(submodel,"UNIT"))
       if (t+elapsed_months >= prem_term && t+elapsed_months < benefit_term)</pre>
               return 1.;
if (eq(submodel,"UNIT"))
       if (prod code == "sav-r")
               if(t >= mat_period_original)
                      return 1.;
if(eq(submodel,"TRAD"))
       if(t > mat_period_original)
               return 1.;
if (inlist(submodel, "TERM") || eq(paid_up, "G"))
return 0.;
if (t <= 0 && gross_up_historic=="N")</pre>
       return 0.0;
// solvency II scenario purpose - for Lapse Mass no paid-up ( all surrender) , for EPIFP all paid-
if(lapse_force_month >0 && lapse_force_month == t){
       if(lapse_force_rate < 1.)</pre>
               return 0.;
       return 1.;
       }
if (t > 0) {
       if (fabs(surv_prm(t-1)) < .000000001)</pre>
               return 0.0;
       //if (eq(sub_model,"UNIT") && surv_prem(t-1) > 0.) {
       if (eq(submodel,"UNIT") ) {
               if (units_e_bef(t) <= 0.00001) // lapse policy if fund is zero or less
                      return 1.;
```

```
if (premium_if_b(t) <= 0.0 \mid | prem_termination_prop(t) == 1.) // lapse policy if
premium for risk rider sold with Managers Meitav higher than total premium (i.e. not enough
premium)
                      return 1.;
               if (sm_accum->units_b_bef(t) + sm_accum->alloc_units(t)
                      + sm_saving->units_b_bef(t) + sm_saving->alloc_units(t)
                      <= cover_charge(t))</pre>
                             return 1.;
                                          // lapse policy if (non paid-up) fund is less than cover
charges
       }
if(eq(paid_up,"Y"))
       return 1.;
double rate = 0;
lapse_type_col_key = "PUP";
lapse_expos_col_key = "premium";
tarif_spec_row_key= xstring(tarif); //added to avoid mutating lookup term error
rate= lapse_rate_im/ 100.0;
rate = rate * lapse_factor(t) * lapse_factor_proj/100.0;
if(margin add=="Y")
       rate = rate * (1. + margin_lapses/100.);
rate = min(rate , 0.999);
return 1. - pow((1. - rate), 1./12.);
6.1.1.3.1.379
                 pup_rate_prm_dep
if (t <= commence_period_w || t > maturity_period_w)
       return NO_AVG;
if (eq(submodel,"UNIT"))
       if (t+elapsed_months >= prem_term && t+elapsed_months < benefit_term)</pre>
               return 1.;
return pup_rate_prm(t) * (1. - death_rate(t));
6.1.1.3.1.380
                 expense investment
if (t <= commence_period_w || t > maturity_period_ann)
       return 0.0;
double result = exp_ren_res / 1200.
                                * reserve(t)
                                * free_inv_prop_t[proj_year(t)]
                                *expense inflation(t);
double margin = 0.;
if(margin add=="Y")
       margin = margin_exp_ren_pc;
```

```
return result * (1 + margin/100.);
6.1.1.3.1.381
                 expense investment bef ret
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
double result = exp_ren_res / 1200.
                               * reserve_bef_ret(t)
                               * free_inv_prop_t[proj_year(t)]
                               *expense_inflation(t);
double margin = 0.;
if(margin_add=="Y")
       margin = margin_exp_ren_pc;
return result * (1 + margin/100.);
6.1.1.3.1.382
                 expense_investment_post_ret
if (t <= commence_period_w || t > maturity_period_ann)
       return 0.0;
if(inlist(submodel,"UNIT,TRAD,ANN") && res_prop_kitzba > 0.0){
       if(mult_age_ind == 1)
              return sm_annuity->expense_investment_post_ret(t);
       return sm_annuity[ann_index_map[takeup_age]]->expense_investment_post_ret(t);
       }
return NO AVG;
6.1.1.3.1.383
                 expense_investment_pv
if (t < commence_period_w || t > maturity_period_ann)
       return 0.0;
if(mult age ind != 1){
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
if( t > maturity_period_w)
       return expense_investment_pv(t+1)* ann_v_month_t[proj_yr]+ expense_investment(t+1);
return expense_investment_pv(t+1)* v_month_t[proj_yr]+ expense_investment(t+1);
}
return expense_investment_pv_bef_ret(t) +expense_investment_pv_post_ret(t);
6.1.1.3.1.384
                 expense_investment_pv_bef_ret
if (t < commence_period_w || t >= maturity_period_ann)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
```

```
return expense_investment_pv_bef_ret(t+1)* v_month_t[proj_yr]+ expense_investment_bef_ret(t+1);
                 expense_investment_pv_post_ret
6.1.1.3.1.385
if (t < commence_period_w || t >= maturity_period_ann)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
if ( t > maturity_period_w)
              return expense_investment_pv_post_ret(t+1)* ann_v_month_t[proj_yr]+
expense_investment_post_ret(t+1);
       else
              return expense_investment_pv_post_ret(t+1)* v_month_t[proj_yr]+
expense_investment_post_ret(t+1);
6.1.1.3.1.386
                 expense_ren_charge_pv
if (t < commence_period_w || t > maturity_period_ann)
       return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
if( t > maturity_period_w)
                  expense_ren_charge_pv(t+1)* ann_v_month_t[proj_yr]+ expense_ren_charge(t+1);
return
           expense_ren_charge_pv(t+1)* v_month_t[proj_yr]+ expense_ren_charge(t+1);
6.1.1.3.1.387
                 benefits b prm
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
return benefits_curr * surv_prm(t-1);
6.1.1.3.1.388
                 policies b
if (t <= commence_period_w || t > maturity_period_ann)
       return 0.0;
return policies_curr * surv_cnt(t-1);
6.1.1.3.1.389
                 policies pup b
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
return policies_curr * surv_pup_cnt(t-1);
6.1.1.3.1.390
                 policy deaths
if (t <= 0 || t > maturity_period_w)
       return 0.0;
if (t > 0 \&\& fabs(surv_prm(t-1)) < .0000001)
       return 0.0;
```

```
return policy_deaths(t-1) + policies_b(t) * death_rate(t);
6.1.1.3.1.391
                 policy_surr
if (t <= 0 || t > maturity_period_w)
       return 0.0;
if (t > 0 \&\& fabs(surv_prm(t-1)) < .0000001)
       return 0.0;
return policy_surr(t-1) + (policies_b(t)-policies_pup_b(t)) * lapse_rate_act_cnt_dep(t) +
                                                   policies_pup_b(t) * lapse_rate_pup_cnt_dep(t);
6.1.1.3.1.392
                 claims_retent
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
if(submodel == "TERM")
       return term->claims_total(t) * (1 - re_ratio_w);
return 0.0;
6.1.1.3.1.393
                 sum at risk claim
if (t <= commence_period_w || t > maturity_period_w || inlist(paid_up,"Y,C,G"))
       return 0.0;
double temp=0.0;
if(eq(ben_class,"adif")) {
double adifsa=0.0; // standard sum insured bought from basic premium
              adifsa = xint(premium(t)/100. * min(1.,basic_perc(t)) //_w /100.
                             * sum_ins_basic_tt(xint(age_last(t)), sex_smoker_code));
       temp = xint(max(sum_insured(t) * surv_act_prm(t-1) // total SAR for premium-paying policies
                  - (sm_accum->units_e_bef(t) + sm_saving->units_e_bef(t)), 0.0));
       return max(temp,adifsa);
}
return 0.0;
6.1.1.3.1.394
                 sum_insured
if (t < commence_period_w || t > maturity_period_w)
       return 0.0;
if(submodel == "TRAD")
       return trad->sum insured(t);
if(submodel == "TERM")
       return term->sum_insured(t);
if ((t+elapsed_months > prem_term && eq(ben_class,"adif") )|| (inlist(paid_up,"Y,G")))
       return 0.0;
```

```
if (t > 0 \&\& fabs(surv_prm(t-1)) < .0000001)
       return 0.0;
double limit=0.0; // maximum total sum-insured, for Adif, to ensure that premium is adequate to
purchase it.
if (t > 0) {
       if (eq(ben_class, "adif")) {
               if(surv_act_prm(t-1)>0) {
                      limit = (sm_accum->units_e(t-1)+sm_saving->units_e(t-1)
                             + (1.-prem_risk_max/100.)*premium_if_b(t)/prem_freq
                             * (sum_ins_basic_tt(xint(age_last(t)),sex_smoker_code)/100. +
alloc_rate[1]/100.)) // *** assumes allocation rate constant for basic Adif
                             /surv act prm(t-1);
                      if (prem_rates_extra_tt(xint(age_last(t)),sex_smoker_code)>0.0)
                             limit = limit +
       (prem risk max/100.*premium if b(t)/prem rates extra tt(xint(age last(t)),sex smoker code) )
// *** assumes allocation rate constant for basic Adif
                             /surv_act_prm(t-1);
       else if (eq(ben_class, "profil")) {
               limit= sum_insured_rider_tt.sum_of_row(t);
       else
                      limit = 0.0;
       }
       else
               limit = sum insured(t-1);
       return min(limit,sum_insured(t-1));
}
if (t == 0) {
       if (eq(ben class, "profil")) {
               limit= sum_insured_rider_tt.sum_of_row(t);
return max(sum_ins_curr,limit) * benefits_curr;
}
// if (t<0)
if (gross_up_historic=="N")
       if (eq(ben_class, "adif")) {
               if (prem_rates_extra_tt(xint(age_last(t)),sex_smoker_code)>0)
min(prem_risk_max/100.*premium_if_b(1)/prem_rates_extra_tt(xint(age_last(t)),sex_smoker_code),sum_i
nsured(t+1));
               else
                      return sum_insured(t+1);
               }
return sum_ins_curr;
6.1.1.3.1.395
                 sum insured if e
if (t < commence_period_w || t >= maturity_period_w)
```

```
return 0.0;
if(submodel == "TRAD")
       return trad->sum_insured_if_e(t) + trad->sum_insured_if_b_pup(t+1);
if(submodel == "TERM")
       return term->sum_insured_if_b(t+1);
return sum_insured(t)*surv_prm(t);
6.1.1.3.1.396
                 sum insured occ gross
if (t < commence_period_w || t >= maturity_period_w)
       return 0.0;
if(submodel == "TERM")
       return sum_insured_if_e(t) * (1 + health_occ_perc/100.);
return 0.0;
6.1.1.3.1.397
                 sum_insured_occ_retent
if (t < commence_period_w || t >= maturity_period_w)
       return 0.0;
if(submodel == "TERM")
       return sum_insured_occ_gross (t) * (1 - re_ratio_w);
return 0.0;
6.1.1.3.1.398
                 alloc_units
if (t <= commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (!eq(submodel,"UNIT"))
       return 0.0;
double temp=0.0;
       temp = sm_accum->alloc_units(t) +
                             sm_acc_pup->alloc_units(t)+
                             sm saving->alloc units(t) +
                             sm_saving_pup->alloc_units(t);
return temp;
6.1.1.3.1.399
                 interest_units_e
if (submodel=="TERM")
       return NO_AVG;
if (submodel=="TRAD")
       return NO_AVG;
double temp=0.0;
```

```
temp = sm_accum->int_cred_units_e(t) +
                              sm_acc_pup->int_cred_units_e(t)+
                              sm_saving->int_cred_units_e(t) +
                              sm_saving_pup->int_cred_units_e(t);
return temp;
6.1.1.3.1.400
                 units_b
return sm_accum->units_b(t) +
       sm_acc_pup->units_b(t)+
       sm_saving->units_b(t)+
       sm_saving_pup->units_b(t);
6.1.1.3.1.401
                 units_b_active
return sm_accum->units_b(t)
               + sm_saving->units_b(t);
6.1.1.3.1.402
                 units_b_bef
return sm_accum->units_b_bef(t) +
       sm_acc_pup->units_b_bef(t)+
       sm_saving->units_b_bef(t)+
       sm_saving_pup->units_b_bef(t);
6.1.1.3.1.403
                 units_b_bef_pup_acc
if (submodel=="TERM")
       return NO_AVG;
if (submodel=="TRAD")
       return NO_AVG;
if (t <= 0 || t > maturity_period_w)
       return 0.0;
return \ sm\_accum->units\_e\_bef(t-1) \ * \ pup\_rate\_bal\_dep(t-1) \ * \ surv\_per\_ret(t-1); // Pups \ occuring \ in
the last month
6.1.1.3.1.404
                 units_b_bef_pup_sav
if (submodel=="TERM")
       return NO_AVG;
if (submodel=="TRAD")
       return NO_AVG;
if (t <= 0 || t > maturity_period_w)
       return 0.0;
return sm_saving-vunits_e_bef(t-1) * pup_rate_bal_dep(t-1) * <math>surv_per_ret(t-1); //Pups occuring in
the last month;
6.1.1.3.1.405
                 units_b_pup
return sm_acc_pup->units_b(t)
               + sm_saving_pup->units_b(t);
```

```
6.1.1.3.1.406
                 units_bon
if (t <= commence_period_w || t > maturity_period_w)
       return NO_AVG;
if (inlist(submodel, "TERM, ANN"))
       return NO_AVG;
if (submodel=="TRAD")
       return trad->bonus_if(t)+trad->bonus_if_pup(t);
return sm_accum->units_e_bef(t) * bonus[t+elapsed_months]/100.;
6.1.1.3.1.407
                 units_e
if(submodel != "UNIT")
       return NO_AVG;
return sm_accum->units_e(t) +
       sm_acc_pup->units_e(t)+
       sm_saving->units_e(t) +
       sm_saving_pup->units_e(t);
6.1.1.3.1.408
                 units_e_bef
return sm_accum->units_e_bef(t) +
               sm_acc_pup->units_e_bef(t)+
               sm_saving->units_e_bef(t)+
               sm_saving_pup->units_e_bef(t);
6.1.1.3.1.409
                 units_e_hon
if(submodel != "UNIT")
       return NO_AVG;
if(t >= maturity_period_ann)
       return 0.0;
return units_e_hon_active(t)
              + units_e_hon_pup(t);
6.1.1.3.1.410
                 units_e_hon_active
if (t <= commence_period_w || t >= maturity_period_ann)
       return 0.0;
if(submodel != "UNIT" || (res_kitzba >= resinforce && resinforce > 0.0))
       return NO_AVG;
if (t==0) {
       if (paid up == "N")
              return max(units_e(t)-res_kitzba * benefits_curr, 0);
       else
               return 0.0;
       }
if (sm_accum->units_b(t) + sm_saving->units_b(t) <= 0.0)</pre>
       return 0.0;
```

```
//Pup to deduct
double new_pup = 0;
if (sm_accum->units_e(t-1) + sm_saving->units_e(t-1) > 0)
       new_pup = (
                             units_b_bef_pup_acc(t) * (1. - sm_accum-
>surr_chg_perc_units[t+elapsed_months]/100.)
                              + units_b_bef_pup_sav(t) * (1. - sm_saving-
>surr_chg_perc_units[t+elapsed_months]/100.)
                              * units_e_hon_active(t-1)
                              / (sm_accum->units_e(t-1) + sm_saving->units_e(t-1));
//if (t==1) log_strm<<"New pup: "<<new_pup<<endl;</pre>
double units to add = 0.0;
units_to_add = alloc_units_honi(t);
//if (t==1) log_strm<<"Units to add: "<<units_to_add<<endl;</pre>
double temp inv rate m = 0.0;
int proj_yr = xint(proj_year(t));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t));
proj_yr = max(proj_yr, 0);
if (margin_add_asset == "Y" && t == 1 && submodel == "UNIT" && par_nonpar == "P")
       temp_inv_rate_m = asset_shock;
else
       temp inv rate m = inv rate mth t[proj yr];
double other deductions = 0;
if ((sm_accum->units_b_bef(t) + sm_saving->units_b_bef(t)) > 0.0)
       other deductions =
                                     (sm_accum->cover_charge(t) + sm_saving->cover_charge(t))
                                                    * (units_e_hon_active(t-1) - new_pup)
                                                    / (sm_accum->units_b_bef(t) + sm_saving-
>units_b_bef(t));
       else
               other_deductions = other_deductions
                                                    + (sm_accum->cover_charge(t) + sm_saving-
>cover_charge(t))
                                                           * (1- res_prop_kitzba);
double int_cred = (units_e_hon_active(t-1) - new_pup + units_to_add - other_deductions) *
temp_inv_rate_m;
other deductions = other deductions
                                                    (sm_accum->management_fee(t) + sm_saving-
>management_fee(t)
                                                    * (units e hon active(t-1) - new pup +
units_to_add)
                                                    / (sm_accum->units_b(t) + sm_saving-
>units_b(t));
```

```
other_deductions = other_deductions
                                     (sm_accum->death_claims_units(t) + sm_saving-
>death_claims_units(t)
                                     + sm_accum->claims_surrender(t) + sm_saving-
>claims_surrender(t)
                                     - units_bon(t) * lapse_rate_act_bal(t)
                                     + sm_accum->surr_charge(t) + sm_saving->surr_charge(t)
                                     (units_e_hon_active(t-1) - new_pup + units_to_add + int_cred -
other_deductions)
                                     / (sm_accum->units_e_bef(t) + sm_saving->units_e_bef(t));
return min(
               (units_e_hon_active(t-1)
               - new pup
               + units to add
               + int cred
               - other_deductions
               * surv_per_ret(t),
                                                    units_e(t));//Final cannot be greater than units
6.1.1.3.1.411
                 units_e_hon_pup
if (t <= commence_period_w || t >= maturity_period_ann)
       return 0.0;
if(submodel != "UNIT" || (res_kitzba >= resinforce && resinforce > 0.0))
       return NO AVG;
if (t==0) {
       //log_strm<<"Paid up: "<<paid_up<<endl;</pre>
       if (paid_up == "N")
              return 0.0;
       else
               return max(units_e(t)-res_kitzba * benefits_curr, 0);
       }
if(paid up == "Y" && paid up input=="N"){ //Adjust for scenario where paid up = Y but units are in
active - treat all as one unit type
       if(units b(t) <= 0.0)
              return 0.0;
       if(units_e_bef(t) <= 0.0)</pre>
               return 0.0;
       double new_bonus = 0;
       if (units_e(t-1) != 0)
               new_bonus = units_bon(t-1)
                                            * pup_rate_bal_dep(t-1)
                                             * surv_per_ret(t-1)
                                            * units_e_hon_pup(t-1)
                                            / units_e(t-1);
```

}

```
double temp_inv_rate_m = 0.0;
       int proj_yr = xint(proj_year(t));
       if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t));
       proj_yr = max(proj_yr, 0);
       if (margin_add_asset == "Y" && t == 1 && submodel == "UNIT" && par_nonpar == "P")
              temp_inv_rate_m = asset_shock;
       else
              temp_inv_rate_m = inv_rate_mth_t[proj_yr];
       double int_cred = (units_e_hon_pup(t-1) + new_bonus) * temp_inv_rate_m;
       double other deductions = 0;
       if(units b(t) != 0)
              other_deductions = ( sm_accum->cover_charge(t) + sm_saving->cover_charge(t)
                                                           + sm_acc_pup->cover_charge(t) +
sm_saving_pup->cover_charge(t)
                                                           + management_fees_fixed_active(t)
                                                           + management_fees_var_active(t)
                                                           * (units_e_hon_pup(t-1) + new_bonus)
                                                           / units_b(t);
       if (units_e_bef(t) != 0 )
              other deductions = other deductions
                                                    (sm_accum->death_claims_units(t) + sm_saving-
>death_claims_units(t)
                                                   + sm acc pup->death claims units(t) +
sm_saving_pup->death_claims_units(t)
                                                   + sm_accum->claims_surrender(t) + sm_saving-
>claims_surrender(t)
                                                   + sm acc pup->claims surrender(t) +
sm_saving_pup->claims_surrender(t)
                                                    - units_bon(t) * lapse_rate_act_bal(t)
                                                    + surr_charge(t)
                                                    (units_e_hon_pup(t-1) + new_bonus +
alloc units honi(t) + int cred - other deductions)
                                                    / units_e_bef(t);
       return min(
                      (units_e_hon_pup(t-1)
                      + new_bonus
                      + alloc_units_honi(t)
                      + int_cred
                      - other_deductions
                      * surv_per_ret(t),
                                                           units_e(t));
```

```
if (sm_acc_pup->units_b(t) + sm_saving_pup->units_b(t) <= 0)</pre>
       return 0.0;
if ((sm_acc_pup->units_e_bef(t) + sm_saving_pup->units_e_bef(t)) <= 0.0)</pre>
       return 0.0;
//Pup to deduct
double new_pup = 0.0;
double new_bonus = 0.0;
if (sm_accum->units_e(t-1) + sm_saving->units_e(t-1) > 0.0){
       if (paid_up == "N"){
              new_pup = (
                                     units_b_bef_pup_acc(t) * (1. - sm_accum-
>surr_chg_perc_units[t+elapsed_months]/100.)
                                     + units_b_bef_pup_sav(t) * (1. - sm_saving-
>surr_chg_perc_units[t+elapsed_months]/100.)
                                     * units_e_hon_active(t-1) / (sm_accum->units_e(t-1) +
sm_saving->units_e(t-1));
               new_bonus = units_bon(t-1) * pup_rate_bal_dep(t-1) * surv_per_ret(t-1);
               new bonus = new bonus
                                     * units_e_hon_active(t-1) / (sm_accum->units_e(t-1) +
sm_saving->units_e(t-1));
               new_pup = new_pup + new_bonus;
       }
}
double temp inv rate m = 0.0;
int proj_yr = xint(proj_year(t));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t));
proj_yr = max(proj_yr, 0);
if (margin_add_asset == "Y" && t == 1 && submodel == "UNIT" && par_nonpar == "P")
       temp_inv_rate_m = asset_shock;
else
       temp_inv_rate_m = inv_rate_mth_t[proj_yr];
double int_cred = (units_e_hon_pup(t-1) + new_pup) * temp_inv_rate_m;
double other_deductions = 0;
if (sm_acc_pup->units_b(t) + sm_saving_pup->units_b(t) != 0)
       other_deductions = (
                                                    sm_acc_pup->cover_charge(t) + sm_saving_pup-
>cover_charge(t)
                                                    + sm acc pup->management fee(t) + sm saving pup-
>management_fee(t)
                                                    * (units e hon pup(t-1) + new pup)
```

```
/ (sm_acc_pup->units_b(t) + sm_saving_pup-
>units_b(t));
if (sm_acc_pup->units_e_bef(t) + sm_saving_pup->units_e_bef(t) != 0)
       other_deductions = other_deductions
                                     (sm_acc_pup->death_claims_units(t) + sm_saving_pup-
>death_claims_units(t)
                                     + sm_acc_pup->claims_surrender(t) + sm_saving_pup-
>claims_surrender(t)
                                     + sm_acc_pup->surr_charge(t) + sm_saving_pup->surr_charge(t)
                                     (units_e_hon_pup(t-1) + new_pup + int_cred - other_deductions)
                                     / (sm_acc_pup->units_e_bef(t) + sm_saving_pup->units_e_bef(t));
return min(
               (units_e_hon_pup(t-1)
               + new_pup
               + int_cred
               - other_deductions
               * surv_per_ret(t),
                                                    units_e(t)); //Final cannot be greater than
units
6.1.1.3.1.412
                 units_e_kiz
if(submodel != "UNIT")
       return NO_AVG;
if(t >= maturity_period_ann)
       return 0.0;
return max(units_e(t) - units_e_hon(t), 0);
6.1.1.3.1.413
                 units_e_new
if(submodel != "UNIT")
       return NO_AVG;
if(t >= maturity_period_ann)
       return 0.0;
return max(0, units_e_kiz(t) - units_e_old(t));
6.1.1.3.1.414
                 units_e_newtag
if(submodel != "UNIT")
       return NO_AVG;
return\ units\_e(t)\ -\ (units\_e\_prat(t)\ +\ units\_e\_piz(t)\ +\ units\_e\_old(t)\ +\ units\_e\_hon(t));
```

6.1.1.3.1.415 units_e_old if(submodel != "UNIT") return NO_AVG; return units_e_old_active(t) + units_e_old_pup(t); 6.1.1.3.1.416 units_e_old_active if (t < 0 || t >= maturity_period_ann) return 0.0; if(submodel != "UNIT" || res_kitzba <= 0.0 || paid_up != "N")</pre> return NO_AVG; if (t==0) { // (note that all the factors below apply to old policies only [with guaranteed annuity rates], as new ones have annuitization_rate set to 0) if (paid_up == "N") return min(res_kitzba * benefits_curr, units_e(t)) * res_prop_kitzba_oldtag ; else return 0.0; } if (sm_accum->units_b(t) + sm_saving->units_b(t) <= 0.0)</pre> return 0.0; if $(sm\ accum->units\ e\ bef(t)\ +\ sm\ saving->units\ e\ bef(t)\ <=0.0)$ return 0.0; if $(sm\ accum->units\ b\ bef(t) + sm\ saving->units\ b\ bef(t) <=0.0)$ return 0.0; //Pup to deduct double new_pup = 0; if (sm_accum->units_e(t-1) + sm_saving->units_e(t-1) > 0) new pup = (units_b_bef_pup_acc(t) * (1. - sm_accum->surr_chg_perc_units[t+elapsed_months]/100.) + units_b_bef_pup_sav(t) * (1. - sm_saving->surr_chg_perc_units[t+elapsed_months]/100.) * units_e_old_active(t-1) / (sm_accum->units_e(t-1) + sm_saving->units_e(t-1)); double temp_inv_rate_m = 0.0; int proj_yr = xint(proj_year(t)); if(eq(projection_type_int, "Rollup")) proj_yr = xint(proj_year_rollup(t)); proj yr = max(proj yr, 0); if (margin_add_asset == "Y" && t == 1 && submodel == "UNIT" && par_nonpar == "P") temp_inv_rate_m = asset_shock; else

```
temp_inv_rate_m = inv_rate_mth_t[proj_yr];
double other_deductions = (sm_accum->cover_charge(t) + sm_saving->cover_charge(t))
                                                   * (units_e_old_active(t-1) - new_pup)
                                                   / (sm_accum->units_b_bef(t) + sm_saving-
>units_b_bef(t));
double int_cred = (units_e_old_active(t-1) - new_pup - other_deductions) * temp_inv_rate_m;
other deductions = other deductions
                                                   (sm_accum->management_fee(t) + sm_saving-
>management_fee(t)
                                                   * (units e old active(t-1) - new pup)
                                                   / (sm_accum->units_b(t) + sm_saving-
>units_b(t));
other deductions = other deductions
                                     (sm_accum->death_claims_units(t) + sm_saving-
>death claims units(t)
                                     + sm_accum->claims_surrender(t) + sm_saving-
>claims surrender(t)
                                     - units_bon(t) * lapse_rate_act_bal(t)
                                     + sm_accum->surr_charge(t) + sm_saving->surr_charge(t)
                                     (units_e_old_active(t-1) - new_pup + int_cred -
other_deductions)
                                     / (sm_accum->units_e_bef(t) + sm_saving->units_e_bef(t));
return min(
              (units_e_old_active(t-1)
              - new_pup
              + int cred
              - other_deductions
              * surv_per_ret(t),
                                                   units_e(t));//Can't be more than units
6.1.1.3.1.417
                 units_e_old_pup
if (t < 0 || t >= maturity_period_ann)
       return 0.0;
if(submodel != "UNIT" || res_kitzba <= 0.0)</pre>
       return NO AVG;
if (t==0) {
       // (note that all the factors below apply to old policies only [with guaranteed annuity
rates], as new ones have annuitization_rate set to 0)
       if (paid_up == "Y")
              return min(res_kitzba * benefits_curr, units_e(t)) * res_prop_kitzba_oldtag ;
       else
              return 0.0;
       }
```

```
if(paid\_up == "Y" \&\& paid\_up\_input == "N"){ //Adjust for scenario where paid\_up = Y but units are in the scenario where paid\_up = Y but units are in the scenario where paid\_up = Y but units are in the scenario where paid\_up = Y but units are in the scenario where paid\_up = Y but units are in the scenario where paid\_up = Y but units are in the scenario where paid\_up = Y but units are in the scenario where paid\_up = Y but units are in the scenario where paid\_up = Y but units are in the scenario where paid\_up = Y but units are in the scenario where paid\_up = Y but units are in the scenario where paid\_up = Y but units are in the scenario where paid\_up = Y but units are in the scenario where paid\_up = Y but units are in the scenario where paid\_up = Y but units are in the scenario where paid\_up = Y but units are in the scenario where paid\_up = Y but units are in the scenario where paid\_up = Y but units are in the scenario where paid\_up = Y but units are in the scenario where paid\_up = Y but units are in the scenario where where the scenario where the scenario where the scenario where
active - treat all as one unit type
                 if(units_b(t) <= 0.0)
                                   return 0.0;
                 if(units_e_bef(t) <= 0.0)
                                   return 0.0;
                 double new_bonus = units_bon(t-1)
                                                                                                         * pup_rate_bal_dep(t-1)
                                                                                                         * surv_per_ret(t-1)
                                                                                                         * units_e_old_pup(t-1)
                                                                                                         / units_e(t-1);
                 double temp_inv_rate_m = 0.0;
                 int proj_yr = xint(proj_year(t));
                 if(eq(projection_type_int, "Rollup"))
                 proj_yr = xint(proj_year_rollup(t));
                 proj_yr = max(proj_yr, 0);
                 if (margin_add_asset == "Y" && t == 1 && submodel == "UNIT" && par_nonpar == "P")
                                   temp_inv_rate_m = asset_shock;
                 else
                                   temp_inv_rate_m = inv_rate_mth_t[proj_yr];
                 double int_cred = (units_e_old_pup(t-1) + new_bonus) * temp_inv_rate_m;
                 double other_deductions = (sm_accum->cover_charge(t) + sm_saving->cover_charge(t)
                                                                                                                                            + sm_acc_pup->cover_charge(t) +
sm_saving_pup->cover_charge(t)
                                                                                                                                            + management_fees_fixed_active(t)
                                                                                                                                            + management_fees_var_active(t)
                                                                                                                                            * (units_e_old_pup(t-1) + new_bonus)
                                                                                                                                            / units_b(t);
                 other deductions = other deductions
                                                                                                         (sm_accum->death_claims_units(t) + sm_saving-
>death_claims_units(t)
                                                                                                         + sm_acc_pup->death_claims_units(t) + sm_saving_pup-
>death_claims_units(t)
                                                                                                         + sm_accum->claims_surrender(t) + sm_saving-
>claims_surrender(t)
                                                                                                         + sm_acc_pup->claims_surrender(t) + sm_saving_pup-
>claims_surrender(t)
                                                                                                         - units_bon(t) * lapse_rate_act_bal(t)
                                                                                                         + surr_charge(t)
                                                                                                         (units_e_old_pup(t-1) + new_bonus + int_cred -
other_deductions)
                                                                                                         / units_e_bef(t);
```

```
return min(
                      (units_e_old_pup(t-1)
                      + new_bonus
                      + int_cred
                      - other_deductions
                      * surv_per_ret(t),
                                                           units_e(t));
}
if (sm_acc_pup->units_b(t) + sm_saving_pup->units_b(t) <= 0.0)</pre>
       return 0.0;
if (sm_acc_pup->units_e_bef(t) + sm_saving_pup->units_e_bef(t) <=0.0)</pre>
       return 0.0;
//Pup to deduct
double new_pup = 0.0;
double new_bonus = 0.0;
if (sm_accum->units_e(t-1) + sm_saving->units_e(t-1) > 0.0){
       if (paid_up == "N"){
              new_pup = (
                                     units_b_bef_pup_acc(t) * (1. - sm_accum-
>surr_chg_perc_units[t+elapsed_months]/100.)
                                     + units_b_bef_pup_sav(t) * (1. - sm_saving-
>surr_chg_perc_units[t+elapsed_months]/100.)
                                     * units_e_old_active(t-1) / (sm_accum->units_e(t-1) +
sm_saving->units_e(t-1));
               new_bonus = units_bon(t-1) * pup_rate_bal_dep(t-1) * surv_per_ret(t-1);
               new_bonus = new_bonus
                                     * units_e_old_active(t-1) / (sm_accum->units_e(t-1) +
sm_saving->units_e(t-1));
               new_pup = new_pup + new_bonus;
       }
}
double temp_inv_rate_m = 0.0;
int proj_yr = xint(proj_year(t));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t));
proj_yr = max(proj_yr, 0);
if (margin add asset == "Y" && t == 1 && submodel == "UNIT" && par nonpar == "P")
       temp_inv_rate_m = asset_shock;
else
       temp_inv_rate_m = inv_rate_mth_t[proj_yr];
```

```
double int_cred = (units_e_old_pup(t-1) + new_pup) * temp_inv_rate_m;
double other_deductions = (sm_acc_pup->cover_charge(t) + sm_saving_pup->cover_charge(t) +
                                                    sm_acc_pup->management_fee(t) + sm_saving_pup-
>management_fee(t)
                                                    * (units_e_old_pup(t-1) + new_pup)
                                                    / (sm_acc_pup->units_b(t) + sm_saving_pup-
>units_b(t));
other_deductions = other_deductions
                                     (sm acc pup->death claims units(t) + sm saving pup-
>death_claims_units(t)
                                     + sm_acc_pup->claims_surrender(t) + sm_saving_pup-
>claims_surrender(t)
                                     //- bonus if(t) * lapse rate(t) - not for pup
                                     + sm_acc_pup->surr_charge(t) + sm_saving_pup->surr_charge(t)
                                     (units_e_old_pup(t-1) + new_pup + int_cred - other_deductions)
                                     / (sm_acc_pup->units_e_bef(t) + sm_saving_pup->units_e_bef(t));
return min(
               (units_e_old_pup(t-1)
               + new_pup
               + int cred
               - other_deductions
               * surv_per_ret(t),
                                                    units_e(t));//Can't be more than units
6.1.1.3.1.418
                 units_e_piz
if(submodel != "UNIT")
       return NO_AVG;
double int_piz = 0.0;
if ((units_e_piz_int_active(t) + units_e_piz_int_pup(t)) < 0)</pre>
       int_piz = units_e_piz_int_active(t) + units_e_piz_int_pup(t);
return min(units_e_piz_active(t) + units_e_piz_pup(t) + int_piz,
                      units_e(t));
6.1.1.3.1.419
                 units_e_piz_active
// צבירה ללא צבירה עבור תשואה ללא
if (t <= commence_period_w || t >= maturity_period_ann)
       return 0.0;
if(submodel != "UNIT" || units_e_new(t) <= 0)</pre>
       return NO_AVG;
```

```
if(t==0){
       if (paid_up == "N")
               return min(res_kitzba * benefits_curr, units_e(t)) * res_prop_kitzba_piz ;
       else
               return 0.0;
}
if (sm_accum->units_b(t) + sm_saving->units_b(t) <= 0.0)
       return 0.0;
if (sm_accum->units_e_bef(t) + sm_saving->units_e_bef(t) <=0.0)</pre>
       return 0.0;
double piz = units e piz active(t-1);
//Pup to deduct
double new_pup = 0;
if (sm_accum->units_e(t-1) + sm_saving->units_e(t-1) > 0)
       new_pup = (
                              units_b_bef_pup_acc(t) * (1. - sm_accum-
>surr_chg_perc_units[t+elapsed_months]/100.)
                             + units_b_bef_pup_sav(t) * (1. - sm_saving-
>surr_chg_perc_units[t+elapsed_months]/100.)
                              * units_e_piz_active(t-1)
                              / (sm_accum->units_e(t-1) + sm_saving->units_e(t-1));
piz = piz - new_pup + alloc_units_piz(t);
double other deductions = 0;
if ((sm_accum->units_b_bef(t) + sm_saving->units_b_bef(t)) > 0.0)
       other_deductions = other_deductions
                                                    (sm_accum->cover_charge(t) + sm_saving-
>cover_charge(t))
                                                    * (units_e_piz_active(t-1) - new_pup)
                                                    / (sm_accum->units_b_bef(t) + sm_saving-
>units_b_bef(t));
       else{
               if(alloc_units_piz(t) > 0.0)
                      other_deductions = other_deductions
                                                           + (sm_accum->cover_charge(t) + sm_saving-
>cover_charge(t))
                                                           * piz
                                                           / alloc_units(t);
               }
piz = piz - other_deductions;
```

```
(sm_accum->death_claims_units(t) + sm_saving->death_claims_units(t)
other_deductions =
                                     + sm_accum->claims_surrender(t) + sm_saving-
>claims_surrender(t)
                                     - units_bon(t) * lapse_rate_act_bal(t)
                                     + sm_accum->surr_charge(t) + sm_saving->surr_charge(t)
                                     piz
                                     / (sm_accum->units_e_bef(t) + sm_saving->units_e_bef(t));
piz = piz - other_deductions;
return max(
              piz * surv_per_ret(t),
                             0);
6.1.1.3.1.420
                 units_e_piz_newprems
if(submodel != "UNIT")
       return NO_AVG;
if (units_e_piz(t) <= 0 \mid | units_e_bef(t) <= 0)
       return 0.0;
if (eq(policy_type, "private") || paid_up != "N")
       return 0.0;
if(t==0)
       return 0.0;
//
//
       return 0.0;
double piz = units_e_piz_newprems(t-1);
double prem_prop = 0.0;
if (alloc units(t) > 0)
       prem_prop = alloc_units_piz(t) / alloc_units(t);
piz = piz + alloc units piz(t)
                      prem_prop * (cover_charge(t)); //Prem-related charges
double other deductions =
                             (sm_accum->death_claims_units(t) + sm_saving->death_claims_units(t) +
sm_acc_pup->death_claims_units(t) + sm_saving_pup->death_claims_units(t)
                                            + sm_accum->claims_surrender(t) + sm_saving-
>claims_surrender(t) + sm_acc_pup->claims_surrender(t) + sm_saving_pup->claims_surrender(t)
                                            - units_bon(t) * lapse_rate_act_bal(t)
                                            + surr_charge(t)
                                            )
                                            piz
                                            / units_e_bef(t); //Other decrements - assume
proportionate to whole of units
piz = piz - other_deductions;
```

```
return min(
              piz * surv_per_ret(t),
                              \verb"units_e_piz(t)); \verb|//Final cannot be greater than units piz active \\
6.1.1.3.1.421
                 units_e_piz_pup
if (t < 0 || t >= maturity_period_ann)
       return 0.0;
if(submodel != "UNIT" || units_e_new(t) <= 0)</pre>
       return NO_AVG;
if(t==0){
       if (paid_up != "N")
               return min(units_e(t), res_kitzba * benefits_curr) * res_prop_kitzba_piz ;
       else
               return 0.0;
}
if(paid up == "Y" && paid up input=="N"){} //Adjust for scenario where paid up = Y but units are in
active - treat all as one unit type
       if(units_b(t) <= 0.0)
               return 0.0;
       if(units_e_bef(t) <= 0.0)
              return 0.0;
       double piz = units_e_piz_pup(t-1);
       double new_bonus = units_bon(t-1)
                                             * pup_rate_bal_dep(t-1)
                                             * surv_per_ret(t-1)
                                             * piz
                                             / units_e(t-1);
       piz = piz + new_bonus;
       double other_deductions = (
                                                            sm_accum->cover_charge(t) + sm_saving-
>cover_charge(t)
                                                            + sm_acc_pup->cover_charge(t) +
sm_saving_pup->cover_charge(t)
                                                            //+ management_fee(t) Moved to new_tag
                                                            * piz
                                                            / units_b(t);
       piz = piz + alloc_units_piz(t) - other_deductions;
       other_deductions = (sm_accum->death_claims_units(t) + sm_saving->death_claims_units(t)
                                             + sm_acc_pup->death_claims_units(t) + sm_saving_pup-
>death_claims_units(t)
                                             + sm_accum->claims_surrender(t) + sm_saving-
>claims_surrender(t)
```

```
+ sm_acc_pup->claims_surrender(t) + sm_saving_pup-
>claims_surrender(t)
                                             - units_bon(t) * lapse_rate_act_bal(t)
                                             + surr_charge(t)
                                             * piz
                                             / units_e_bef(t);
       piz = piz - other_deductions;
       return max(
                      piz * surv_per_ret(t),
                                                            0);
}
if (sm_acc_pup->units_b(t) + sm_saving_pup->units_b(t) <= 0.0)</pre>
       return 0.0;
if (sm_acc_pup->units_e_bef(t) + sm_saving_pup->units_e_bef(t) <=0.0)</pre>
       return 0.0;
double piz = units_e_piz_pup(t-1);
//Pup to deduct
double new_pup = 0.0;
double new_bonus = 0.0;
if (sm_accum->units_e(t-1) + sm_saving->units_e(t-1) > 0.0){
       if (paid_up == "N"){
               new_pup = (
                                     units_b_bef_pup_acc(t) * (1. - sm_accum-
>surr_chg_perc_units[t+elapsed_months]/100.)
                                     + units_b_bef_pup_sav(t) * (1. - sm_saving-
>surr_chg_perc_units[t+elapsed_months]/100.)
                                     * units_e_piz_active(t-1) / (sm_accum->units_e(t-1) +
sm_saving->units_e(t-1));
               new_bonus = units_bon(t-1) * pup_rate_bal_dep(t-1) * surv_per_ret(t-1);
               new_bonus = new_bonus
                                     * units_e_piz_active(t-1) / (sm_accum->units_e(t-1) +
sm_saving->units_e(t-1));
               new_pup = new_pup + new_bonus;
       }
}
piz = piz + new_pup;
double other_deductions = (
```

```
sm_acc_pup->cover_charge(t) + sm_saving_pup-
>cover_charge(t)
                                                    //+ sm_acc_pup->management_fee(t) +
sm_saving_pup->management_fee(t) moved to new_tag
                                                    * piz
                                                    / (sm_acc_pup->units_b(t) + sm_saving_pup-
>units_b(t));
piz = piz - other_deductions;
other_deductions =
                      (sm_acc_pup->death_claims_units(t) + sm_saving_pup->death_claims_units(t)
                                     + sm_acc_pup->claims_surrender(t) + sm_saving_pup-
>claims_surrender(t)
                                     //- bonus_if(t) * lapse_rate(t) Not for pup
                                     + sm_acc_pup->surr_charge(t) + sm_saving_pup->surr_charge(t)
                                     piz
                                     / (sm_acc_pup->units_e_bef(t) + sm_saving_pup->units_e_bef(t));
piz = piz - other_deductions;
               piz * surv_per_ret(t),
return max(
                              0);
6.1.1.3.1.422
                 units_e_prat
if(submodel != "UNIT")
       return NO_AVG;
return min(units_e_prat_active(t) + units_e_prat_pup(t),
                      units_e(t));
6.1.1.3.1.423
                 units_e_prat_active
if (t < 0 || t >= maturity_period_ann)
       return 0.0;
if(submodel != "UNIT" || units_e_new(t) <= 0)</pre>
       return NO_AVG;
if(t==0){
       if (paid_up == "N")
               return min(res_kitzba * benefits_curr, units_e(t)) * res_prop_kitzba_prat ;
       else
               return 0.0;
}
if (sm_accum->units_b(t) + sm_saving->units_b(t) <= 0.0)</pre>
       return 0.0;
if (sm_accum->units_e_bef(t) + sm_saving->units_e_bef(t) <=0.0)</pre>
       return 0.0;
```

```
double prat = units_e_prat_active(t-1);
//Pup to deduct
double new_pup = 0;
if (sm_accum->units_e(t-1) + sm_saving->units_e(t-1) > 0)
       new_pup = (
                             units_b_bef_pup_acc(t) * (1. - sm_accum-
>surr_chg_perc_units[t+elapsed_months]/100.)
                             + units_b_bef_pup_sav(t) * (1. - sm_saving-
>surr_chg_perc_units[t+elapsed_months]/100.)
                             * units e prat active(t-1)
                             / (sm_accum->units_e(t-1) + sm_saving->units_e(t-1));
prat = prat - new_pup + alloc_units_prat(t);
double temp_inv_rate_m = 0.0;
int proj yr = xint(proj year(t));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t));
proj_yr = max(proj_yr, 0);
if (margin_add_asset == "Y" && t == 1 && submodel == "UNIT" && par_nonpar == "P")
       temp_inv_rate_m = asset_shock;
else
       temp_inv_rate_m = inv_rate_mth_t[proj_yr];
double other deductions = 0.0;
if ((sm_accum->units_b_bef(t) + sm_saving->units_b_bef(t)) > 0.0)
       other deductions =
                                     (sm_accum->cover_charge(t) + sm_saving->cover_charge(t))
                                                    * (units_e_prat_active(t-1) - new_pup)
                                                   / (sm_accum->units_b_bef(t) + sm_saving-
>units_b_bef(t));
       else
              other_deductions =
                                            (sm_accum->cover_charge(t) + sm_saving->cover_charge(t))
                                                           * prat
                                                           / (sm_accum->units_b(t) + sm_saving-
>units_b(t));
prat = prat - other_deductions;
double int_cred = prat * temp_inv_rate_m;
other_deductions =
                                     (
                                                   //sm_accum->cover_charge(t) + sm_saving-
>cover_charge(t)
                                                   + sm_accum->management_fee(t) + sm_saving-
>management_fee(t)
                                                   )
                                                    * prat
                                                    / (sm_accum->units_b(t) + sm_saving-
>units_b(t));
```

```
prat = prat + int_cred - other_deductions;
other deductions =
                    (sm_accum->death_claims_units(t) + sm_saving->death_claims_units(t)
                                     + sm_accum->claims_surrender(t) + sm_saving-
>claims_surrender(t)
                                     - units_bon(t) * lapse_rate_act_bal(t)
                                     + sm_accum->surr_charge(t) + sm_saving->surr_charge(t)
                                     prat
                                     / (sm_accum->units_e_bef(t) + sm_saving->units_e_bef(t));
prat = prat - other_deductions;
              prat * surv_per_ret(t),
return min(
                             units_e(t));//Final cannot be greater than units
6.1.1.3.1.424
                 units_e_prat_newprems
if(submodel != "UNIT")
       return NO_AVG;
if (!eq(policy_type, "private") || paid_up != "N" || res_kitzba == 0.0 || units_e_prat(t) <= 0 ||
units_b(t) <= 0 \mid \mid units_e_bef(t) \mid \mid t==0
       return 0.0;
double prat = units_e_prat_newprems(t-1);
prat = prat + alloc_units_prat(t)
                      - cover_charge(t);
double temp_inv_rate_m = 0.0;
int proj_yr = xint(proj_year(t));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t));
proj_yr = max(proj_yr, 0);
if (margin_add_asset == "Y" && t == 1 && submodel == "UNIT" && par_nonpar == "P")
       temp inv rate m = asset shock;
else
       temp_inv_rate_m = inv_rate_mth_t[proj_yr];
double other_deductions = 0.0;
double int_cred = prat * temp_inv_rate_m;
other_deductions = (management_fees_fixed_active(t) + management_fees_var_active(t))
                                                    * prat
                                                    / units_b(t);
prat = prat + int_cred - other_deductions;
```

```
(sm_accum->death_claims_units(t) + sm_saving->death_claims_units(t) +
other_deductions =
sm_acc_pup->death_claims_units(t) + sm_saving_pup->death_claims_units(t)
                                            + sm_accum->claims_surrender(t) + sm_saving-
>claims_surrender(t) + sm_acc_pup->claims_surrender(t) + sm_saving_pup->claims_surrender(t)
                                     - units_bon(t) * lapse_rate_act_bal(t)
                                     + surr_charge(t)
                                     prat
                                     / units_e_bef(t);
prat = prat - other_deductions;
return min(
              prat * surv_per_ret(t),
                             units_e_prat(t));//Final cannot be greater than active prat units
6.1.1.3.1.425
                 units e prat pup
if (t < 0 || t >= maturity_period_ann)
       return 0.0;
if(submodel != "UNIT" || units_e_new(t) <= 0)
       return NO_AVG;
if(t==0){
       if (paid up != "N")
               return min(res_kitzba * benefits_curr, units_e(t)) * res_prop_kitzba_prat ;
       else
              return 0.0;
}
if(paid_up == "Y" && paid_up_input=="N"){ //Adjust for scenario where paid_up = Y but units are in
active - treat all as one unit type
       if(units_b(t) \leftarrow 0.0)
              return 0.0;
       if(units_e_bef(t) <= 0.0)</pre>
               return 0.0;
       double prat = units_e_prat_pup(t-1);
       double new_bonus = units_bon(t-1)
                                            * pup_rate_bal_dep(t-1)
                                            * surv_per_ret(t-1)
                                            * prat
                                            / units e(t-1);
       prat = prat + new_bonus;
       double temp_inv_rate_m = 0.0;
       int proj_yr = xint(proj_year(t));
       if(eq(projection_type_int, "Rollup"))
               proj_yr = xint(proj_year_rollup(t));
```

```
proj_yr = max(proj_yr, 0);
       if (margin_add_asset == "Y" && t == 1 && submodel == "UNIT" && par_nonpar == "P")
               temp_inv_rate_m = asset_shock;
       else
               temp_inv_rate_m = inv_rate_mth_t[proj_yr];
       double int_cred = prat * temp_inv_rate_m;
       double other_deductions = (
                                                           sm_accum->cover_charge(t) + sm_saving-
>cover_charge(t)
                                                           + sm_acc_pup->cover_charge(t) +
sm saving pup->cover charge(t)
                                                           + management_fees_fixed_active(t)
                                                           + management_fees_var_active(t)
                                                           * prat
                                                           / units_b(t);
       prat = prat + alloc_units_prat(t) + int_cred - other_deductions;
       other_deductions = (sm_accum->death_claims_units(t) + sm_saving->death_claims_units(t)
                                            + sm_acc_pup->death_claims_units(t) + sm_saving_pup-
>death_claims_units(t)
                                            + sm_accum->claims_surrender(t) + sm_saving-
>claims_surrender(t)
                                            + sm_acc_pup->claims_surrender(t) + sm_saving_pup-
>claims_surrender(t)
                                            - units_bon(t) * lapse_rate_act_bal(t)
                                            + surr_charge(t)
                                            * prat
                                            / units_e_bef(t);
       prat = prat - other_deductions;
                      prat * surv_per_ret(t),
       return min(
                                                           units_e(t));//Final cannot be greater
than units
}
if (sm_acc_pup->units_b(t) + sm_saving_pup->units_b(t) <= 0.0)</pre>
       return 0.0;
if (sm_acc_pup->units_e_bef(t) + sm_saving_pup->units_e_bef(t) <=0.0)</pre>
       return 0.0;
double prat = units_e_prat_pup(t-1);
//Pup to deduct
double new pup = 0.0;
double new_bonus = 0.0;
if (sm_accum->units_e(t-1) + sm_saving->units_e(t-1) > 0.0){
       if (paid_up == "N"){
```

```
new_pup = (
                                     units_b_bef_pup_acc(t) * (1. - sm_accum-
>surr_chg_perc_units[t+elapsed_months]/100.)
                                     + units_b_bef_pup_sav(t) * (1. - sm_saving-
>surr chg perc_units[t+elapsed_months]/100.)
                                     * units_e_prat_active(t-1) / (sm_accum->units_e(t-1) +
sm_saving->units_e(t-1));
              new_bonus = units_bon(t-1) * pup_rate_bal_dep(t-1) * surv_per_ret(t-1);
              new_bonus = new_bonus
                                     * units_e_prat_active(t-1) / (sm_accum->units_e(t-1) +
sm_saving->units_e(t-1));
              new_pup = new_pup + new_bonus;
       }
}
prat = prat + new_pup;
double temp_inv_rate_m = 0.0;
int proj_yr = xint(proj_year(t));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t));
proj_yr = max(proj_yr, 0);
if (margin_add_asset == "Y" && t == 1 && submodel == "UNIT" && par_nonpar == "P")
       temp_inv_rate_m = asset_shock;
else
       temp_inv_rate_m = inv_rate_mth_t[proj_yr];
double int_cred = prat * temp_inv_rate_m;
double other_deductions = (
                                                   sm_acc_pup->cover_charge(t) + sm_saving_pup-
>cover_charge(t)
                                                   + sm_acc_pup->management_fee(t) + sm_saving_pup-
>management fee(t)
                                                    * prat
                                                    / (sm_acc_pup->units_b(t) + sm_saving_pup-
>units_b(t));
prat = prat + int_cred - other_deductions;
other_deductions =
                      (sm_acc_pup->death_claims_units(t) + sm_saving_pup->death_claims_units(t)
                                     + sm_acc_pup->claims_surrender(t) + sm_saving_pup-
>claims_surrender(t)
                                     + sm_acc_pup->surr_charge(t) + sm_saving_pup->surr_charge(t)
```

```
prat
                                     / (sm_acc_pup->units_e_bef(t) + sm_saving_pup->units_e_bef(t));
prat = prat - other_deductions;
              prat * surv_per_ret(t),
return min(
                             units_e(t));//Final cannot be greater than units
6.1.1.3.1.426
                 prem_termination_prop
if(submodel == "ANN" || submodel == "TERM")
       return 1;
if(t <= 0)
       return 0; //this is to allow for cases where policy holder enters at the exact age, e.g. 64
and when RI prems are calculated.
if(t < mat_period_min || t > maturity_period_w)
       return 0.;
if(mult_age_ind == 1.){
       if(retirement age lookup(1) > sm annuity[sm annuity.size()-1]->takeup age)
              return 1.;
       if(xint(pol_month(t)) == 12 && paid_up == "N"){
              return prem_termination_rate/100.;
       }
       return 0.;
}
return 1.;
6.1.1.3.1.427
                 mort_year
return year_prod + pol_year(t)-1;
6.1.1.3.1.428
                 basic_perc
if (t < commence_period_w || t > maturity_period_w)
       return NO_AVG;
if (!eq(submodel, "UNIT"))
       return 1.0;
if (!eq(ben_class,"adif") || sum_ins_curr<0.0001)</pre>
       return min(1.0,basic_perc_w/100.);
if (t >= 1) {
       double basic_SA = sum_ins_basic_tt(xint(age_last(t)),sex_smoker_code) * surv_ret(t-1);
       if (basic_SA >0) {
              double adifSAR = sum_insured(t)*surv_act_prm(t-1) - sm_accum->units_b_bef(t) -
sm_saving->units_b_bef(t) -
              premium_if_b(t)/prem_freq*accum->allocation_rate(t);
              return max(0.0, min(1.0, adifSAR / basic_SA) );
       }
}
```

```
//else
return 0.0;
6.1.1.3.1.429
                 age_last
if (t <= commence_period_w || t > maturity_period_w)
       return NO_AVG;
if (t == 1 - elapsed_months)
       return floor(age_at_issue);
if (pol_month(t) == 1)
       return age_last(t-1) + 1.0;
return age_last(t-1);
6.1.1.3.1.430
                 interest re Irc q1
if (t < 1 || t > 3 || t > maturity_period_ann || eq(paid_up, "C"))
       return NO_AVG;
if(ben_class == "phi" || prod_code == "ltc-shil")
       return interest_re(t);
return 0.0;
6.1.1.3.1.431
                 interest_re_lrc_q2
if (t < 4 || t > 6 || t > maturity_period_ann || eq(paid_up, "C"))
       return NO_AVG;
if(ben_class == "phi" || prod_code == "ltc-shil")
       return interest re(t);
return 0.0;
6.1.1.3.1.432
                 interest_re_lrc_q3
if (t < 7 || t > 9 || t > maturity_period_ann || eq(paid_up, "C"))
       return NO_AVG;
if(ben_class == "phi" || prod_code == "ltc-shil")
       return interest_re(t);
return 0.0;
6.1.1.3.1.433
                 interest_re_lrc_q4
if (t < 10 || t > 12 || t > maturity_period_ann || eq(paid_up, "C"))
       return NO_AVG;
if(ben_class == "phi" || prod_code == "ltc-shil")
       return interest_re(t);
return 0.0;
```

```
6.1.1.3.1.434
                 interest_re_lrc_yr2plus
if ( t < 13 || t > maturity_period_ann || eq(paid_up, "C"))
       return NO AVG;
if(ben_class == "phi" || prod_code == "ltc-shil")
       return interest_re(t);
return 0.0;
6.1.1.3.1.435
                 riskadj_gross
if (t < 0 || t > maturity_period_ann)
       return NO_AVG;
double dis_component=0, lap_component=0, mort_component=0, long_component=0, exp_component=0,
tu_component=0;
// 1. Disability
if(eq(ben_class, "phi"))
       dis_component = ra_fact_dis_incid_gross / 100 * claim_cost_pv(t) + ra_fact_dis_termi_gross /
100 * claims_disability_pv(t);
       else
       dis_component = ra_fact_dis_incid_gross / 100 * claims_disability_pv(t) ;
// 2. Lapse
if(paid_up=="G" || paid_up=="C" || free_inv_prop_t[1]<1) /*We exclude Invest Guaranteed because
of circular reference with Investment income. */
       lap component = 0.0;
       else
       lap_component = ra_fact_lapse_gross / 100 * profit_book_vif_pv_pos(t);
// 3. Mortality
       mort_component = ra_fact_mort_gross / 100 * claims_death_pv(t);
// 4. Longevity
if (eq(savings_pol_prod_code, "Y"))
       long_component = ra_fact_long_gross / 100 * claims_annuity_pv(t);
       long_component = ra_fact_long_gross / 100 * claims_disability_pv(t);
// 5. Expenses
exp_component = ra_fact_exp_gross / 100 * expense_pv(t);
// 6. Take up
tu_component = ra_fact_tu_gross / 100 * be_retire(t);
return
       dis component + lap component + mort component + long component + exp component +
tu_component;
```

```
6.1.1.3.1.436
                 riskadj_gross_rel_q1
if (t < 1 || t > 3 || t > maturity_period_ann || eq(paid_up, "C"))
       return NO_AVG;
if(ben_class == "phi" || prod_code == "ltc-shil")
       return riskadj_gross_rel_total(t);
return 0.0;
6.1.1.3.1.437
                 riskadj_gross_rel_q2
if (t < 4 || t > 6 || t > maturity_period_ann || eq(paid_up, "C"))
       return NO_AVG;
if(ben_class == "phi" || prod_code == "ltc-shil")
       return riskadj_gross_rel_total(t);
return 0.0;
6.1.1.3.1.438
                 riskadj_gross_rel_q3
if (t < 7 || t > 9 || t > maturity_period_ann || eq(paid_up, "C"))
       return NO AVG;
if(ben_class == "phi" || prod_code == "ltc-shil")
       return riskadj_gross_rel_total(t);
return 0.0;
6.1.1.3.1.439
                 riskadj_gross_rel_q4
if (t < 10 || t > 12 || t > maturity_period_ann || eq(paid_up, "C"))
       return NO_AVG;
if(ben_class == "phi" || prod_code == "ltc-shil")
       return riskadj_gross_rel_total(t);
return 0.0;
6.1.1.3.1.440
                 riskadj gross rel total
if (t <= commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (t == 0)
       return 0;
int proj_yr = xint(proj_year(t));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t));
// end of period
return riskadj_gross(t-1) / v_month_t[proj_yr] - riskadj_gross(t);
```

```
6.1.1.3.1.441
                 riskadj_gross_rel_yr2plus
if ( t < 13 || t > maturity_period_ann || eq(paid_up, "C"))
       return NO_AVG;
if(ben_class == "phi" || prod_code == "ltc-shil")
       return riskadj_gross_rel_total(t);
return 0.0;
6.1.1.3.1.442
                 riskadj_net
if (t <= commence_period_w || t > maturity_period_ann)
       return NO_AVG;
return riskadj_gross(t) - riskadj_re(t);
6.1.1.3.1.443
                 riskadj_re
if (t < 0 || t > maturity_period_ann)
       return NO AVG;
double dis_component=0, lap_component=0, mort_component=0, long_component=0, exp_component=0,
tu_component=0;
// 1. Disability
if(eq(ben_class, "phi"))
       dis_component = ra_fact_dis_incid_reins / 100 * claim_cost_re_pv(t) +
ra_fact_dis_termi_reins / 100 * rein_claims_pv(t);
       dis_component = ra_fact_dis_incid_reins / 100 * rein_claims_pv(t) ;
// 2. Lapse
if(paid_up=="G" || paid_up=="C" || free_inv_prop_t[1]<1)</pre>
       lap component = 0.0;
       lap_component = ra_fact_lapse_reins / 100 * cashflow_re_pv(t);
// 3. Mortality
       mort_component = ra_fact_mort_reins / 100 * rein_claims_pv(t);
// 4. Longevity
if (eq(savings_pol_prod_code, "Y"))
       long_component = 0;
       long_component = ra_fact_long_reins / 100 * rein_claims_pv(t);
// 5. Expenses
exp_component = 0;
// 6. Take up
tu component = 0;
```

```
return
       dis_component + lap_component + mort_component + long_component + exp_component +
tu_component;
6.1.1.3.1.444
                 riskadj_re_rel_q1
if (t < 1 || t > 3 || t > maturity_period_ann || eq(paid_up, "C"))
       return NO_AVG;
if(ben_class == "phi" || prod_code == "ltc-shil")
       return riskadj_re_rel_total(t);
return 0.0;
6.1.1.3.1.445
                 riskadj_re_rel_q2
if (t < 4 || t > 6 || t > maturity_period_ann || eq(paid_up, "C"))
       return NO_AVG;
if(ben_class == "phi" || prod_code == "ltc-shil")
       return riskadj_re_rel_total(t);
return 0.0;
6.1.1.3.1.446
                 riskadj re rel q3
if (t < 7 || t > 9 || t > maturity_period_ann || eq(paid_up, "C"))
       return NO_AVG;
if(ben_class == "phi" || prod_code == "ltc-shil")
       return riskadj_re_rel_total(t);
return 0.0;
6.1.1.3.1.447
                 riskadj_re_rel_q4
if (t < 10 || t > 12 || t > maturity_period_ann || eq(paid_up, "C"))
       return NO_AVG;
if(ben class == "phi" || prod code == "ltc-shil")
       return riskadj_re_rel_total(t);
return 0.0:
6.1.1.3.1.448
                 riskadj re rel total
if (t <= commence_period_w || t > maturity_period_ann)
       return NO AVG;
if (t == 0)
       return 0;
int proj_yr = xint(proj_year(t));
if(eq(projection_type_int, "Rollup"))
```

```
proj_yr = xint(proj_year_rollup(t));
// end of period
return riskadj_re(t-1) / v_month_t[proj_yr] - riskadj_re(t);
6.1.1.3.1.449
                 riskadj_re_rel_yr2plus
if ( t < 13 || t > maturity_period_ann || eq(paid_up, "C"))
       return NO_AVG;
if(ben_class == "phi" || prod_code == "ltc-shil")
       return riskadj_re_rel_total(t);
return 0.0;
6.1.1.3.1.450
                 premium_if_b
if(submodel == "ANN")
       return NO_AVG;
if (submodel=="TERM")
       return term->premium_if_b(t);
if (submodel=="TRAD")
       return trad->premium if b(t);
if (t <= commence_period_w || (t + elapsed_months) > prem_term
       || paid up=="Y" || t > maturity period w)
       return 0.0;
return max(premium_if_b_total(t) - premium_if_riders(t)
       + premium_if_riders(0)*surv_act_prm(t-1),0.0);
6.1.1.3.1.451
                 premium_if_b_total
if (t <= commence_period_w || (t + elapsed_months) > prem_term
       || inlist(paid_up,"Y,C,G") || t > maturity_period_w)
       return 0.0;
double inc =1.0;
if(xint(pol_month(t))==1 \&\& t>0)
       inc = (1 + premium_inc(t)/100);
double tat_shnatiut = 1.0;
/*if (mod_load_in_prem=="N")
       tat_shnatiut = (1 + life->mod_load_perc/100.);*/
if (t > 1) //prem increase applies on prem curr not on pol fees
       return premium_if_b_total(t-1)*inc * surv_per_act_prm(t-1) ;
if (t == 1)
       return inc* prem_curr * benefits_curr * tat_shnatiut;
// t < 1
if (gross_up_historic=="N" || (surv_per_act_prm(t)<0.000001))</pre>
       return premium_if_b_total(t+1);
```

```
else
       return (premium_if_b_total(t+1) / surv_per_act_prm(t));
6.1.1.3.1.452
                 premium_if_e
if(submodel == "ANN")
       return NO_AVG;
if (submodel=="TERM")
       return term->premium_if_e(t);
if (submodel=="TRAD")
       return trad->premium_if_e(t);
if (t < commence_period_w || (t + elapsed_months) > prem_term
       || paid_up=="Y" || t > maturity_period_w)
       return 0.0;
if (t<0 && t == commence period w )</pre>
       return 0.0;
return premium if b(t+1);
6.1.1.3.1.453
                 premium_if_riders
if(submodel == "ANN")
       return NO_AVG;
if (t <= commence period w || t > maturity period w || !eq(ben class, "Adif") || risk si<=0.000001
|| surv_prm(t-1)<=0) // no rider
       return 0;
// Calculate premium lookup year
int premium year=1;
if (prem lookup freq w[25]){
       if (xint(fmod(xint(pol_year(t)),prem_lookup_freq_w[25])) == 0)
               premium_year = prem_lookup_freq_w[25];
       else
               premium_year = xint(fmod(xint(pol_year(t)),prem_lookup_freq_w[25]));
       }
// if not a renewal month, return previous premium reduced by survival
if (premium year!=1 || xint(pol month(t))!=1)
       return premium_if_riders(t-1) * surv_per_act_prm(t-1);
// else (renewal month), lookup new premium rate
col_char = sex + smoker_stat;
prem_rates_row = xint(age_last(t));
double rate = prem_rates_risk_rider;
return rate / si unit w[25]
               * risk si
               * benefits_b_prm(t) * surv_act_prm(t-1) / surv_prm(t-1)
               * 1.04;
6.1.1.3.1.454
                 alloc_units_honi
if (t <= commence period w || t > maturity period ann)
       return NO AVG;
```

```
if (!eq(submodel,"UNIT"))
       return 0.0;
if (alloc_units(t) <= 0.0)</pre>
       return 0.0;
if (!eq(policy_type, "private"))
       return 0.0; //All new units allocated to prat
if (res_prop_kitzba > 0.0) //For prat, policies that have some kiz up to now continue to be
kitzbati.
       return 0.0;
return alloc_units(t); //Only policies that are private and currently have no kitzbati
                 alloc_units_newtag
6.1.1.3.1.455
if (t <= commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (!eq(submodel,"UNIT"))
       return 0.0;
if (alloc_units(t) <= 0.0)</pre>
       return 0.0;
if (eq(policy_type, "private"))
       return 0.0; //All new units allocated to prat
double prop = prem_newtag_prop / 100.;
return alloc_units(t)
               * prop;
                 alloc_units_piz
6.1.1.3.1.456
if (t <= commence_period_w || t > maturity_period_ann)
       return NO_AVG;
if (!eq(submodel, "UNIT"))
       return 0.0;
if (alloc_units(t) <= 0.0)</pre>
       return 0.0;
if (eq(policy_type, "private"))
       return 0.0; //All new units allocated to prat
double prop = prem newtag prop / 100.;
return alloc_units(t)
               * (1. - prop);
6.1.1.3.1.457
                 alloc_units_prat
if (t <= commence_period_w || t > maturity_period_ann)
       return NO_AVG;
```

```
if (!eq(submodel, "UNIT"))
       return 0.0;
if (alloc_units(t) <= 0.0)</pre>
       return 0.0;
if (!eq(policy_type, "private"))
       return 0.0; //All new units allocated to prat
if (res_prop_kitzba == 0.0) //For prat, policies that have 0 kiz up to now continue to be honi.
       return 0.0;
return alloc_units(t);
6.1.1.3.1.458
                 premium_inc
if (t <= life->commence_period_w || t > life->maturity_period_w)
       return NO_AVG;
if (eq(submodel,"UNIT")) {
       term_in_profil="N";
       return sal_tbl;
}
if (eq(submodel, "TERM")){
       return 0.0;
}
if (eq(submodel,"TRAD")) {
       return atof(prem_inc); //from prod_spec_trad
}
return 0.0;
6.1.1.3.1.459
                 sum_ins_inc
if (t <= life->commence_period_w || t > life->maturity_period_w)
       return NO_AVG;
if (eq(paid_up, "Y")) // if paid-up then no increasing bonus
return 0.0;
key_temp = "N";
if (eq(submodel,"UNIT")) {
return 0.0;
if (eq(submodel, "TERM")){
       xstring base_code = prod_code_base(0,4);
       if (eq(base_code ,"prof"))
               key_temp = "Y";
```

```
term_in_profil=key_temp;
       return sal_tbl;
}
if (eq(submodel, "TRAD")) {
       return atof(sum_inc); //from prod_spec_trad
}
return 0.0;
6.1.1.3.1.460
                 sum_ins_inc_acc
if (t <= life->commence_period_w || t > life->maturity_period_w)
       return NO_AVG;
if (!eq(submodel,"TERM") || !eq(paid_up,"N"))
return 1.0;
double si_inc_pct = 0.0;
if (t <= 0)
return 1.0;
if (xint(life->pol_month(t)) == 1 \&\& (t>0))
       si_inc_pct = life->sum_ins_inc(t) / 100.;
return sum_ins_inc_acc(t-1)*(1+si_inc_pct);
6.1.1.3.1.461
                 prem_disc_shimur_rate
if (t <= 0 || t > maturity_period_w)
       return 0.0;
double new_rate = 0.;
if (t==1 || pol_month(t) == 1.)
       new_rate = prem_disc_shimur_im ;
return prem_disc_shimur_rate(t-1) + new_rate;
6.1.1.3.1.462
                 be_retire
if(t> maturity_period_ann )
       return NO_AVG;
if(!inlist(submodel,"UNIT,TRAD") || res_prop_kitzba <= 0.0)</pre>
       return NO_AVG;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
if(mult_age_ind == 1)
       return (be_retire(t+1) + sm_annuity->units_for_takeup(t+1))
                       * v_month_t[proj_yr];
```

return 0.0;

```
return (be_retire(t+1) + sm_annuity[ann_index_map[takeup_age]]->units_for_takeup(t+1))
                      * v_month_t[proj_yr];
6.1.1.3.1.463
                 cashflow_gross_pv_pos
if (t < commence_period_w || t > maturity_period_ann)
       return 0.0;
if (cashflow_pv(t) + cashflow_re_pv(t) > 0)
       return cashflow_pv(t) + cashflow_re_pv(t);
else
       return 0.0;
6.1.1.3.1.464
                 cashflow_pv
if (t < commence_period_w || t > maturity_period_ann)
       return 0.0;
if(mult_age_ind != 1){
       int proj_yr = xint(proj_year(t+1));
       if(eq(projection_type_int, "Rollup"))
              proj_yr = xint(proj_year_rollup(t+1));
       if ( t > maturity_period_w)
              return (cashflow_pv(t+1) + cashflow_e(t+1)) * ann_v_month_t[proj_yr] +
cashflow_b(t+1);
       else
              return (cashflow_pv(t+1) + cashflow_e(t+1)) * v_month_t[proj_yr] + cashflow_b(t+1);
}
return cashflow pv active(t)
              + cashflow pv deferred(t)
               + cashflow_pv_inpay(t);
6.1.1.3.1.465
                 cashflow_pv_chetz
if (t < commence period w | | t > maturity period ann | | free inv prop t[1] >= 1.)
       return 0.0;
if(mult_age_ind != 1){
       int proj_yr = xint(proj_year(t+1));
       if(eq(projection_type_int, "Rollup"))
              proj_yr = xint(proj_year_rollup(t+1));
       return cashflow_pv_ifrs(t)*(1.-max_chetz) + cashflow_pv_res(t)*(max_chetz) - riskadj_gross
(t);
return cashflow_pv_active_chetz(t)
              + cashflow pv deferred chetz(t)
               + cashflow_pv_inpay_chetz(t) - riskadj_gross(t);
6.1.1.3.1.466
                 cashflow_pv_e
if (t < commence_period_w || t > maturity_period_ann)
```

```
int proj_yr = xint(proj_year(t+1));
       if(eq(projection_type_int, "Rollup"))
              proj_yr = xint(proj_year_rollup(t+1));
if(mult_age_ind != 1){
       if ( t > maturity_period_w)
              return (cashflow_pv_e(t+1) + cashflow_e(t+1) + cashflow_b(t+1)) *
ann_v_month_t[proj_yr];
       else
              return (cashflow_pv_e(t+1) + cashflow_e(t+1) + cashflow_b(t+1)) *
v_month_t[proj_yr];
return cashflow_pv_active_e(t)
              + cashflow_pv_deferred_e(t)
               + cashflow_pv_inpay_e(t);
6.1.1.3.1.467
                 cashflow_pv_pos
if (t < commence_period_w || t > maturity_period_ann)
       return 0.0;
if (cashflow_pv(t) > 0)
       return cashflow_pv(t);
else
       return 0.0;
6.1.1.3.1.468
                 profit_bk_act_vif_pv
if (t < commence_period_w || t > maturity_period_ann)
     return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
return (profit_book_active_vif(t+1) + profit_bk_act_vif_pv(t+1))
              * v_month_t[proj_yr];
6.1.1.3.1.469
                 profit_book_vif_pv
if (t < commence_period_w || t >= maturity_period_ann)
     return 0.0;
if (mult_age_ind != 1){
       int proj_yr = xint(proj_year(t+1));
       if(eq(projection_type_int, "Rollup"))
              proj_yr = xint(proj_year_rollup(t+1));
       if ( t >= maturity_period_w)
              return (profit_book_vif(t+1) + profit_book_vif_pv(t+1)) * ann_v_month_t[proj_yr];
       return (profit_book_vif(t+1) + profit_book_vif_pv(t+1)) * v_month_t[proj_yr];
}
return profit_book_vif_pv_active(t)
              + profit_book_vif_pv_deferred(t)
```

```
+ profit_book_vif_pv_inpay(t);
```

```
6.1.1.3.1.470 profit_net_vif_pv
```

```
if (t < commence_period_w || t >= maturity_period_ann)
    return 0.0;
// call additional scalars not calculated otherwise
call_extra_scalars();
//check why need to add these
double temp = cover_charge_pv(t);
temp = manage_fees_fixed_ann_pv(t);
temp = manage_fees_var_ann_pv(t);
temp = reserve_total_increase_pv(t);
temp = profit_book_vif_pv_pos(t);
temp = expense_ren_perc_pv(t);
temp = expense_ren_fix_pv(t);
temp = cashflow_pv_e(t);
temp = cashflow pv active e(t);
temp = be reserve(t);
temp = expense_pv_ann(t);
temp = comm_not_res_pv(t);
temp = claims_maturity_ret_pv(t);
temp = expense_investment_pv_post_ret(t);
temp = expense_investment_pv_bef_ret(t);
temp = expense_pv_active_no_inv(t);
temp = fvui(t);
temp = cashflow_pv_pos(t);
temp = cashflow_gross_pv_pos(t);
temp = expense_pv_active(t);
temp = claims_lrc_q1_pv(t);
temp = claims_lrc_q2_pv(t);
temp = claims_lrc_q3_pv(t);
temp = claims_lrc_q4_pv(t);
temp = claims_lrc_yr2plus_pv(t);
temp = rid cashflow pv(t);
temp = claim cost pv(t);
temp = total_bor_acc_pv(t);
temp = total_bor_return_pv(t);
temp = nogt_annpv(t);
if (mult_age_ind != 1){
       int proj_yr = xint(proj_year(t+1));
       if(eq(projection_type_int, "Rollup"))
              proj_yr = xint(proj_year_rollup(t+1));
       if (t >= maturity_period_w)
              return (profit_net_vif(t+1) + profit_net_vif_pv(t+1))* ann_v_month_t[proj_yr];
       return (profit_net_vif(t+1) + profit_net_vif_pv(t+1))* v_month_t[proj_yr];
}
```

```
return profit_net_vif_pv_active(t)
              + profit_net_vif_pv_deferred(t)
              + profit_net_vif_pv_inpay(t);
6.1.1.3.1.471
                 ret_prop_col
if(mult_age_ind == 1){
if(retirement_age_lookup(t) < min_retirement_age)</pre>
       return 1.;
if(retirement_age_lookup(t) <= sm_annuity[sm_annuity.size()-1]->takeup_age)
       return ret_prop_array[ann_index_map[retirement_age_lookup(t)]];
return ret_prop_array[ann_index_map[sm_annuity.size()-1]];
}
return 1.;
6.1.1.3.1.472
                 cashflow re b
return premium_re(t) - comm_re(t) - comm_re_prof(t);
6.1.1.3.1.473
                 cashflow_re_e
return interest_re(t) - claims_re(t);
6.1.1.3.1.474
                 claims_re
if (submodel=="TERM")
       return term->claims_re(t);
if (submodel=="TRAD")
       return trad->claims_re(t);
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
if (eq(ben_class,"adif")) {
       if (eq(re_type,"NONE"))
               return 0.0;
       return death_claim_si(t) * re_ratio_w;
else { // Profil
       double tot = 0.0;
       if (t>0)
               for (int i=0; i < riders count w; i++)</pre>
               tot = tot + rider_perc_allowed(t)/100.
                             * claim_amount_tt(t,i) * surv_act_prm(t-1)
                             * (1 - sm_riders[i]->retention); // *** r=t?
       return tot;
}
```

6.1.1.3.1.475 comm_re if(submodel == "ANN") return NO_AVG; if (submodel=="TERM") return term->comm_re(t); if (submodel=="TRAD") return trad->comm_re(t); if (eq(re_type,"NONE")) return 0.0; double res = 0.0; //regular commission int yr; if (atof(comm_by_cal)==1) yr=xint(cal_duration(t)+1); else yr=xint(pol_year_ext(t)); res = comm_ren_re[yr] / 100. * premium_re(t) ; return res; 6.1.1.3.1.476 comm_re_prof if(submodel == "ANN") return NO_AVG; if (submodel=="TERM") return term->comm_re_prof(t); if (submodel=="TRAD") return trad->comm_re_prof(t); return max(0,(comm_prof_re / 100. * (premium_re(t) - claims_re(t) - comm_re(t)))); 6.1.1.3.1.477 interest_re if (interest_re_calculate=="N") return 0.0; if (submodel=="TERM") return term->interest_re(t); if (submodel=="TRAD") return 0.0; return NO_AVG; 6.1.1.3.1.478 interest_re_pv if (t < commence_period_w || t > maturity_period_ann)

```
return 0.0;
int proj_yr = xint(proj_year(t+1));
if(eq(projection_type_int, "Rollup"))
       proj_yr = xint(proj_year_rollup(t+1));
if( t > maturity_period_w){
       return
                 (interest_re_pv(t+1) + interest_re(t+1))
               * ann_v_month_t[proj_yr];
       }
return
           (interest_re_pv(t+1) + interest_re(t+1))
               * v_month_t[proj_yr];
6.1.1.3.1.479
                 premium_re
if(submodel == "ANN")
       return NO_AVG;
if(submodel == "TRAD")
       return trad->premium_re(t);
if(submodel == "TERM")
       return term->premium re(t);
if (t <= commence_period_w || t > maturity_period_w)
       return 0.0;
double tot = 0.0;
if (eq(ben_class, "adif")) {
       double prate = 0.0;
       //Premium lookup definitions
       if(eq(re_type,"YRT")) {
               prate = prem_rates_re * (1+ max(health_occ_perc_min,health_occ_perc)/100.)
prem_per_unit_si_re;
               return prate/prem_rate_scale_w *sum_at_risk_claim(t)*( re_ratio_w)/prem_freq;
       if(eq(re_type,"OT"))
       return premium_if_b(t) * (re_ratio_w)/prem_freq ;
       if(eq(re_type,"NONE"))
       return 0.0;
// Profil
if (t>0)
       for (int i=0; i < riders_count_w; i++)</pre>
               tot = tot + rider_perc_allowed(t)/100.
                      * claim_amount_tt(t,i) * surv_act_prm(t-1)
                      * (1 - sm_riders[i]->retention)
                      * (1.0 + re_cost_pc_rider[i]/100.0); // *** r=t?;
```

return tot; 6.1.1.3.1.480 rein_claims_pv if (t < commence_period_w || t >= maturity_period_w) return 0.0; int proj_yr = xint(proj_year(t+1)); if(eq(projection_type_int, "Rollup")) proj_yr = xint(proj_year_rollup(t+1)); return (rein_claims_pv(t+1) + claims_re(t+1)) * v_month_t[proj_yr]; 6.1.1.3.1.481 rein_comm_pv if (t < commence_period_w || t >= maturity_period_w) return 0.0; int proj_yr = xint(proj_year(t+1)); if(eq(projection_type_int, "Rollup")) proj_yr = xint(proj_year_rollup(t+1)); return rein_comm_pv(t+1)* v_month_t[proj_yr] + comm_re(t+1) + comm_re_prof(t+1); 6.1.1.3.1.482 rein prem pv if (t < commence_period_w || t >= maturity_period_w) return 0.0; int proj_yr = xint(proj_year(t+1)); if(eq(projection_type_int, "Rollup")) proj_yr = xint(proj_year_rollup(t+1)); return rein_prem_pv(t+1)* v_month_t[proj_yr] + premium_re(t+1); 6.1.1.3.1.483 reserve_re if(submodel == "TRAD") return 0.0; if(submodel == "TERM") return term->reserve re(t); return NO_AVG; 6.1.1.3.1.484 reserve_re_increase if (reserve_re_increase_calculate=="N") return 0.0; if(submodel == "TRAD") return 0.0; if(submodel == "TERM") return term->reserve_re_increase(t); return NO_AVG;

dac_book_adj_factor = dac_book_adj_factor_input;

dac_tax_inforce = dac_tax_inforce_input; dac_tax_adj_factor = dac_tax_adj_factor_input;

benefit_term = benefit_term_input;

6.1.1.3.1.485 reserve re increase pv if (t <= commence_period_w || t > maturity_period_ann) return 0.0; int proj_yr = xint(proj_year(t+1)); if(eq(projection_type_int, "Rollup")) proj_yr = xint(proj_year_rollup(t+1)); if (t >= maturity_period_w) (reserve_re_increase_pv(t+1) + reserve_re_increase(t+1)) * ann_v_month_t[proj_yr] ; (reserve_re_increase_pv(t+1) + reserve_re_increase(t+1)) * v_month_t[proj_yr]; return 6.1.1.3.1.486 startup //***** EXTERNS Section ****** start_externs extern long max_errors; map <int, int> ann_index_map; map <int, double> ret_prop_map; SmartArray <double> ret_prop_array; end externs // reset MoSes to allow more skipped model-points before cancelling run $\max \text{ errors} = 50000;$ // Check if scenario exists in ESG file double temp=0.0; risk free row key=1; temp = inv rate m; //yield pre if (temp == 99999.) throw FatalError("yield pre not available in ESG assumption file for specific scenario"); temp = disc_rate_m; //Discount Factor pre if (temp == 99999.) throw FatalError("Discount Factor pre not available in ESG assumption file for specific scenario"); temp = ann_inv_rate_m; //yield post if (temp == 99999.) throw FatalError("yield post not available in ESG assumption file for specific scenario"); //Discount Factor post temp = ann_disc_rate_m; if (temp == 99999.) throw FatalError("Discount Factor post not available in ESG assumption file for specific scenario"); //Set code variables ben_class = ben_class_input; mgt_fee_fixed = mgt_fee_fixed_input; mgt_fee_variable = mgt_fee_variable_input; dac book inforce = dac book inforce input;

```
prem_curr = prem_curr_input;
prem_curr_if = prem_curr_input;
comm_renewal_year = comm_renewal_year_input;
policy_fee_if = policy_fee_input*gorem_mult;
prem_disc_perc = prem_disc_perc_input;
prem_disc_perc_2 = prem_disc_perc_2_input;
prem_disc_month = prem_disc_month_input;
prem_disc_month_2 = prem_disc_month_2_input;
sum_ins_curr = sum_ins_curr_input;
prem_term = prem_term_input;
rein_set = rein_set_input;
paid_up = paid_up_input;
unit_value_accum = unit_value_accum_input * (1+res_adj_factor);
unit_value_savings = unit_value_savings_input * (1+res_adj_factor);
surr value if = surr value if input * (1+res adj factor);
res kitzba = res kitzba input * (1+res adj factor);
resinforce = resinforce input * (1+res adj factor);
riders_count_w = riders_count_w_input;
lapse_force_rate = lapse_force_rate_input;
if (use_tat_shnatiut_assum=="Y")  // if tat_shnatiut taken from assumption file
       tat_shnatiut_rate = tat_shnatiut_assum;
else
       tat_shnatiut_rate = tat_shnatiut_input;
if ((policy_fee_if - prem_curr) < 1 && (policy_fee_if - prem_curr) > 0 )
       policy_fee_if=prem_curr;
if (rein_set == "132") //manual edit to data to avoid a new skip - not clear what this rein set is
from the data?
       rein set = "0";
if(life->submodel == "TRAD"){
if(!eq(ben_class, "gimla") || (eq(ben_class, "gimla") && (life->sm_annuity[life->sm_annuity.size()-
1]->takeup_age < age_at_issue + elapsed_months/12)))
benefit_term = max(benefit_term,elapsed_months+1);
else if(eq(ben class, "gimla"))
benefit_term = max(benefit_term,elapsed_months);
}
int i = 0;
for (i = 0; i <=100; i++) {
       comm_perc_res_a[i] = comm_perc_res_a_input;
       comm_perc_res_b[i] = comm_perc_res_b_input;
}
if (inlist(xstring(error code), "0,2,4"))
                                          // error code from data file
       error_msg = "error_code_field="+xstring(error_code);
if(!eq(ben class,"profil"))
```

```
riders_count_w=0;
if((eq(ben_class,"ltc") || eq(prod_code,"phi-mitriya")) && !eq(paid_up,"C"))
       use_phi_claims_cf="N";
prod_yr_w = year_prod;
if (eq(prog_name, "KLASI"))
                            // set if modal loading is included in the premium field for level
premium products
       mod_load_in_prem = "N";
else
       mod_load_in_prem = "Y";
int tmp = ann_series;
death_rates ="CMI00" +sex + smoker_stat;
if (eq(pol type annuity tu switch, "Current"))
       pol_type_annuity_tu = policy_type;
else
       pol_type_annuity_tu = policy_type_orig;
if (eq(pol_type_comm_hekef_switch,"Current"))
       pol_type_comm_hekef = policy_type;
else
       pol_type_comm_hekef = policy_type_orig;
if (eq(pol_type_expenses_switch, "Current"))
       pol_type_expenses = policy_type;
else
       pol_type_expenses = policy_type_orig;
if (eq(pol type lapse switch, "Current"))
       pol_type_lapse = policy_type;
else
       pol_type_lapse = policy_type_orig;
if (eq(pol_type_lapse_rider_switch, "Current"))
       pol_type_lapse_rider = policy_type;
else
       pol_type_lapse_rider = policy_type_orig;
if (eq(pol_type_phi_incidence_switch, "Current"))
       pol_type_phi_incidence = policy_type;
else
       pol_type_phi_incidence = policy_type_orig;
if (eq(pol_type_sal_inc_switch, "Current"))
       pol_type_sal_inc = policy_type;
else
       pol_type_sal_inc = policy_type_orig;
```

```
if (eq(pol_type_recovery_rates_switch, "Current"))
       pol_type_recovery_rates = policy_type;
else
       pol_type_recovery_rates = policy_type_orig;
set_by_prodcode();
set_from_tables();
set_from_data();
// adjust prem_curr to exclude policy fee
if(eq(submodel, "UNIT") && eq(done_startup_w, "false"))// prem_curr(by benefit) excludes policy
fees(by policy)
       prem_curr = prem_curr - policy_fee_if * policies_curr / benefits_curr;
set_other_variables();
//**** Annuity submodel purpose
set_accum_fund();
set_accum_pup_fund();
if (abs(basic_perc_w - 100.)> 0.00001 || (sum_ins_curr>0 && eq(ben_class, "adif")) ||
                      (unit_value_savings>0.0)){
       set_saving();
       set_saving_pup();
}
if(eq(ben_class,"profil"))
       set_profil_rider_variables();
if(paid up=="Y" )
       exp_ren_perc_prem = 0.;
set_reinsurance();
re ratio w = 1 - life->retention perc;
if (eq(re_type,"NONE"))
       re_ratio_w = 0.0;
if(eq(submodel,"UNIT") && eq(done_startup_w,"false") && eq(paid_up ,"N") && (prem_curr <= 0.0))</pre>
       paid_up="Y";
if (eq(done_startup_w, "false"))
       validate_data();
if (!eq(error_msg,"no_error"))
                                   { // this causes all formulae to be zero
       maturity_period_w = -1;
       mat_period_min = -1;
       maturity_period_ann = -1;
       commence_period_w = 1;
int j = min_retirement_age;
for(int i = 0; i < sm_annuity.size(); i++){</pre>
       if(ann\_index\_map.count(j + i) == 0){
               ann_index_map[j + i] = i;
```

```
sm_annuity[i]->setGroup(xstring(j+i));
}
if (inlist(prod_code, "a72, a75, a80-00honi, a80-01hon, a80-01kitz, rsapir1, rsapir5, asav, sav-r, ariske"))
       prod_code_adif_extra_prem_temp = prod_code;
return 0.0;
6.1.1.3.1.487
                 cal_duration
if (t < commence_period_w)</pre>
       return NO_AVG;
return max(cal_year(t) - year_start,0);
6.1.1.3.1.488
                 cal_month
if (t < commence_period_w)</pre>
       return NO_AVG;
int result = 0;
if (t >= -valn_month)
       result = fabs(fmod(valn_month + t, 12.));
else
       result = 12. - fabs(fmod(valn_month + t, 12.));
if (result == 0.)
       result = 12;
return result;
6.1.1.3.1.489
                  cal_year
if (t < -13)
       return NO AVG;
if (t == 0)
       return valn_year;
if (t < 0){
       if (valn_month == 3){
               if (t < -2)
                       return valn_year -1;
               return valn_year;
       }
       if (valn_month == 6){
               if (t < -5)
                       return valn_year -1;
               return valn_year;
       }
       if (valn_month == 9){
               if (t < -8)
                      return valn_year -1;
               return valn_year;
       }
```

```
if (valn_month == 12){
               if (t < -11)
                      return valn_year -1;
               return valn_year;
       }
}
//if vetek is 0 in data then fix it for calcultion of cal_year to be 1
int vetek = elapsed_months;
if (vetek == 0.0)
       vetek = 1.0;
if (t == 1 - vetek){}
       if (t>-12)
               return valn_year;
       return valn_year -1;
}
if (cal\_month(t) == 1)
       return cal_year(t-1) + 1.;
return cal_year(t-1);
6.1.1.3.1.490
                 pol_month
if (t < commence_period_w)</pre>
       return NO_AVG;
if (t == -elapsed_months)
       return 0;
int mth = pol_month(t-1) + 1;
if (mth == 13)
       return 1;
return mth;
6.1.1.3.1.491
                  pol_year
if (t < commence_period_w)</pre>
       return NO_AVG;
if (t == -elapsed_months)
       return 1;
if (pol_month(t) == 1.0 \&\& t > -elapsed_months +11)
       return pol_year(t-1) + 1;
return pol_year(t-1);
6.1.1.3.1.492
                  pol_year_ext
if (t < commence_period_w)</pre>
       return NO_AVG;
return xint(pol_year(t) + round(elapsed_months_extra/12.,0));
```

temp = comm_init_new; temp = comm_nihul_pv_start; temp = comm_prizes_new; temp = comm pv start;

6.1.1.3.1.493 proj_month if (t < commence_period_w)</pre> return NO_AVG; if (t == 0)return NO_AVG; int result = xint(fmod(t, 12)); if (result == 0) { if (t > 0)result = 12; else result = -12; } return result; 6.1.1.3.1.494 proj_year if (t < 1)return NO_AVG; //if (t > 0)if $(proj_month(t) == 1)$ return proj_year(t-1) + 1.; return proj_year(t-1); 6.1.1.3.1.495 proj_year_rollup if (t < commence_period_w || !eq(projection_type_int, "Rollup"))</pre> return NO_AVG; if(t<= rollup_period)</pre> return 0; if (eq(start_int_proj_after_rollup, "N")) return proj_year(t); if(proj_month(t) == rollup_period + 1 || (proj_month(t) == 1. && rollup_period == 12.)) return proj_year_rollup(t-1) + 1; return proj_year_rollup(t-1); 6.1.1.3.2 External Functions 6.1.1.3.2.1 call extra scalars void call_extra_scalars(void) double temp = 0.0; temp = comm_clawback_pv_start; temp = comm_hekef_new;

```
temp = comm_reg_pv_st;
temp = comm_ren_pv_st;
temp = comm_res_pv_st;
temp = duration;
temp = expense_init_new;
temp = expense_pv_start;
temp = policies_new;
temp = prem_alloc_pv;
temp = prem_discount_py1;
temp = premium_1;
temp = premium_disc_pv_start;
temp = premium_new;
temp = premium_pv_st_date;
temp = profit_net_vif_yr0;
temp = reins comm1;
temp = res total increase1;
temp = reserve_rein_opening;
temp = premium_gross_yr1;
temp = claims_total_yr1;
temp = comm_total_yr1;
temp = expense_total_yr1;
temp = claims_re_yr1;
temp = premium_re_yr1;
temp = comm_re_yr1;
temp = comm_re_prof_yr1;
temp = comm_reg_riders_out_pv_st;
temp = charges_premium_pv_st;
temp = management_fee_pv_st;
temp = proj_task_loop_num_scalar;
temp = claims_pv_st;
temp = cashflow_re_pv_st;
xstring tempstr = value date;
tempstr = portfolio;
tempstr = ktest;
}
6.1.1.3.2.2
                 monthly_rate
double monthly rate(double annual rate) {
       return (pow(1. + annual_rate / 100. , 1. / 12.) - 1.);
}
6.1.1.3.2.3
                 set_accum_fund
void set accum fund(void) {
int i=0;
// ************Set variables in submodel:***********
// Accumulation Units for premium paying policies
for (i = 0; i < 16; i++)
       accum->alloc_rate[i] = alloc_rate[i];
       accum->alloc_rate_period[i] = alloc_rate_period[i];
}
accum->par nonpar = par nonpar;
accum->commence_period_w = commence_period_w;
```

```
accum->elapsed_months = elapsed_months;
//sm_accum->isRebaseClone = isRebaseClone;
accum->maturity_period_w = maturity_period_w;
accum->mgt_fee_fixed = mgt_fee_fixed;
accum->mgt_fee_variable = mgt_fee_variable;
accum->paid_up = paid_up;
accum->policies_curr = policies_curr;
accum->benefits_curr = benefits_curr;
accum->decrements_apply = decrements_apply;
accum->prem_freq = prem_freq;
accum->projection_type = projection_type;
for (i = 0; i<116; i++) {
   accum->comm_regular_pc[i] = comm_regular_pc[i];
    sm accum->comm perc res[i] = comm perc res a[i];
}
accum->comm_ren_perc_prem = comm_ren_perc_prem;
accum->comm_renewal_year = comm_renewal_year;
sm_accum->unit_value_if = unit_value_accum-unit_value_savings;
sm_accum->unit_type = "Accum_prem";
// close function
                 set_accum_pup_fund
6.1.1.3.2.4
void set_accum_pup_fund(void) {
int i=0;
// **********Set variables in submodel:***************
acc_pup->par_nonpar = par_nonpar;
acc_pup->commence_period_w = commence_period_w;
acc pup->elapsed months = elapsed months;
acc pup->maturity period w = maturity period w;
acc_pup->mgt_fee_fixed = mgt_fee_fixed;
acc_pup->mgt_fee_variable = mgt_fee_variable;
acc_pup->paid_up = paid_up;
acc_pup->policies_curr = policies_curr;
acc_pup->benefits_curr = benefits_curr;
acc_pup->projection_type = projection_type;
acc_pup->decrements_apply = decrements_apply;
for (i=0; i < 116; i++)
       sm_acc_pup->comm_perc_res[i] = comm_perc_res_a[i];
sm_acc_pup->unit_value_if = unit_value_accum-unit_value_savings;
sm_acc_pup->unit_type = "Accum_pup";
// close function
}
```

6.1.1.3.2.5 set_by_prodcode

```
void set_by_prodcode (void) {
int i=0;
int j=0;
xstring phi_WP = "3";
double series_end_temp=0.0;
xstring endage;
comm_set_temp = comm_set; //commission assumption
if(comm_set_temp == "N/A") // prod_code does not exist in lookup
      throw NonFatalError("Product code: " + prod_code + " not in product assumptions table.");
exp_row_lookup =exp_set_pol + "_" + exp_set_cvr + "_" + company;
if(eq(pol_type_expenses, "selfemp"))
      exp_row_lookup = exp_row_lookup + "_managers";
else
      exp row lookup = exp row lookup + " " + pol type expenses;
if(exp madad==99999.)
      throw NonFatalError("Error looking up expenses for " + exp_row_lookup+"_"+pol_type_expenses
+ " in expense_tbl.");
decrem_mult_set_temp =decrem_mult_set;
clms_mult_set_temp =clms_mult_set;
clwback_set_temp =clwback_set;
exp_mult_set_temp =exp_mult_set;
alloc_rate_set_temp =alloc_rate_set;
surr_charge_set_temp = policy_type + "_" +surr_chg_set;
tarif_spec_row_key= xstring(tarif);
if (eq(ben class, "phi")) {
      phi_type =pitzui_shichrur;
      if(phi_type == "N/A")
             phi_type = "P";
      }
//check if riders - for setting lapse rates
if (!eq(prod_code_base,prod_code) && eq(submodel,"TERM"))
      rider_ind=1;
//check if pup - for setting lapse rates
if (eq(paid_up,"Y") && (!eq(submodel,"TERM")))
      pup_ind=1;
fund_name_temp = xstring(fund_name);
```

```
// Change fund name to read right annuity factors
if(inlist(prod_code, "a72,a80-00honi") && (atoi(fund) < 100 || inlist(fund, "521,523,527")))
      fund_name_temp = xstring(min(atoi(fund_name_temp),50));
if(eq(prod_code, "asav") && inlist(fund, "52,521,523,527"))
      fund_name_temp = xstring(min(atoi(fund_name_temp),50));
if(xint(par_npar)==1)
  par_nonpar = "P";
else
  par_nonpar = "N" ;
if(xint(par npar yesodi)==1)
  par_nonpar_yesodi = "P";
else
  par_nonpar_yesodi = "N" ;
int dac_code = dactype;
if (dac_code==0) dac_type_temp = "none";
if (dac_code==1) dac_type_temp = "zillmer";
if (dac_code==2) dac_type_temp = "il_dac";
// Set up risk free investment rate array (by year)
for (i = 0; i <=119; i++){}
      risk_free_row_key=i;
      inv_rate_mth_t[i] = inv_rate_m; //yield pre
      inv_rate_mth_t_ifrs[i] = inv_rate_m_ifrs;
      v_month_t[i] =1/(1 + disc_rate_m); //Discount Factor pre
      if(esg_run=="Y" && chilean==0 && eq(paid_up, "G")) {//yield post
             ann_inv_rate_mth_t[i] =inv_rate_m; // use pre yield if non chilean for ESG runs
             ann_inv_rate_mth_t_ifrs[i] =inv_rate_m_ifrs;}
             else
             {ann_inv_rate_mth_t[i] =ann_inv_rate_m;
             ann_inv_rate_mth_t_ifrs[i] =ann_inv_rate_m_ifrs;
      v month t rm[i] = 1/(1 + inv rate rm m); // Discount Factor - No VA
             risk free row key = valn year + i;
}
if(inv_rate_rollup != 0.0 && eq(projection_type_int, "Rollup")) //seems not to be used as overwrite
after
      inv_rate_mth_t[0] = inv_rate_rollup;
```

```
// Check if should use actual investment income for projection year 1
double temp_inv_free = 0.0;
if (eq(ben_class, "phi") && eq(paid_up, "C"))
       temp_col_fund="inv_free_rollup_PHI_C";
else
       temp_col_fund="inv_free_rollup";
temp_inv_free = fund_rates_code_tbl;
                                                //WTW Modified code
if(eq(projection type int, "Rollup"))
{
       //Set year 1 investment rate according to fund (Only for participating; for NP, use RFR)
       if(xint(par npar)==1 || xint(par npar)==0){ // always 0 or 1?
              inv_rate_mth_t[0] = monthly_rate(temp_inv_free);
              ann_inv_rate_mth_t[0] = monthly_rate(temp_inv_free);
       }
       else
       {
              if (start_int_proj_after_rollup == "N"){
                     inv_rate_mth_t[0] = inv_rate_mth_t[1];
                     ann_inv_rate_mth_t[0] = ann_inv_rate_mth_t[1];}
       }
}
// adjust the investment return array for the fund's investment income rate
if (eq(savings_pol_prod_code, "Y") || eq(paid_up, "C")) {
double curr year prop = 0.0;
double next_year_prop = 0.0;
double rollup_fact= 0.0;
double rollup month=0.0;
double ny_months=0.0;
if(eq(projection_type_int,"Rollup")) {
       if(valn_month==12)
              rollup_fact=1;
       rollup_month=rollup_period;
}
free_inv_row_key = valn_year+rollup_fact;
free_inv_prop_t[0] = free_inv_ratio_tbl;
ny_months = rollup_month+valn_month*(1-rollup_fact);
for (i = 1; i <=119; i++){}
       free inv_row_key = valn_year+i-1+rollup_fact;
       curr year prop = free inv ratio tbl;
       free_inv_row_key = valn_year+i+rollup_fact;
       next_year_prop = free_inv_ratio_tbl;
       free_inv_prop_t[i] = (curr_year_prop*(12-ny_months)+next_year_prop*ny_months)/12;
```

```
}
}
double temp_inv_inc = monthly_rate(invinc);
// only adjust vector for when there are non-free assets in the fund
if (free_inv_prop_t[0] < 1.0) { //current year i.e. valuation year
       v_month_t_int_res = 1. / (1. + monthly_rate(intres));
       for (i=0; i<119;i++){
              inv_rate_rf_mth_t[i] = inv_rate_mth_t[i];
              ann_inv_rate_rf_mth_t[i] = ann_inv_rate_mth_t[i];
              } //end for loop
       for (i=0; i<119;i++){
              inv rate mth t[i] = inv rate mth t[i]*free inv prop t[i] + temp inv inc*(1.-
free_inv_prop_t[i]);
              ann_inv_rate_mth_t[i] = ann_inv_rate_mth_t[i]*free_inv_prop_t[i] + temp_inv_inc*(1.-
free_inv_prop_t[i]);
              v_month_t_ifrs[i] = 1/(1 + inv_rate_mth_t_ifrs[i]);
              ann_v_month_t_ifrs[i] = 1/(1 + ann_inv_rate_mth_t_ifrs[i]);
              } //end for loop
       } // end if
if (eq(ben_class,"adif") || eq(submodel,"TRAD")) {
       mgt_fee_variable =var_mgt_fee;
       if (par_nonpar=="P"){
              mgt_fee_fixed =fixed_mgt_fee;
              mgt fee fixed puresav = mgt fee fixed;
              }
       else{
// For Non Par, set the management fee to be the credited interest rate
              mgt_fee_fixed =intres;
              mgt_fee_fixed_puresav =intres_puresav;
              if(inlist(life->prod_code, "sav-s, sav-r"))
              mgt_fee_fixed_puresav = mgt_fee_fixed;
              }
       if (eq(submodel, "TRAD"))
              mgt_fee_fixed = fixed_mgt_fee;
       }
// Adjust starting dac values
// Check if fund rates table has adjustment factors, otherwise use the input values
double adjfac=0.0;
       if (!eq(dac_type_temp, "none")) {
              adjfac =dac_book_fac;
              if(adjfac==2.) //In case lookup failed
                      adjfac= dac_book_adj_factor;
              dac_book_inforce = dac_book_inforce * adjfac/100. * benefits_curr;
              dac_book_adj_factor = adjfac;
              if (eq(dac_type_temp,"zillmer")) {
```

```
adjfac= zillmer_adj_factor;
                     dac_tax_inforce = dac_tax_inforce * adjfac/100. * benefits_curr;
              }
              else {
                     adjfac =dac_tax_fac;
                     if(adjfac==2.) //In case lookup failed
                           adjfac= dac_tax_adj_factor;
                     dac_tax_inforce = dac_tax_inforce * adjfac/100.* benefits_curr;
                     dac_tax_adj_factor = adjfac;
              }
      }
      else
              dac_book_inforce = 0.0;
// Set capital required percentages
       cap_req_perc_premium_temp = cap_req_perc_premium/100.0;
       cap_req_perc_reserve_temp =cap_req_perc_reserve/100.0;
if (eq(submodel,"UNIT")) {
       xstring prod_code_temp = prod_code;
// lookup maximum percentage of [tagmulim] premium that can be used to pay for risk riders
       rider_max_perc = atof(prod_specs_max);
// lookup SV penalty annual rebate factor for paid-up policies
       pup_sv_charge_rebate_temp = atof(pup_sv_charge_rebate);
// calculate annuity reserves for all savings products
       if (res_kitzba==0 && (elapsed_months>0 || eq(policy_type,"private")) )
             annuitization_rate = 0.0;
//************************ Set allocation rate**********************************
      if (!eq(alloc rate set temp, "data")) {
            alloc_rate_set_temp = alloc_rate_set_temp + "_" + policy_type;
       // Set up alloc_rate and alloc_rate_period array
      alloc_rate[0] = 0.0;
       alloc_rate_period[0] = 0.0;
              for (i=1; i<=15.;i++){}
                    stri = xstring(i);
                    alloc_rate_row = alloc_rate_set_temp + "_p";
                    alloc_rate[i] = alloc_rate_stri;
                     alloc_rate_row =alloc_rate_set_temp + "_m";
                    alloc_rate_period[i] = alloc_rate_stri;
                    } //end for loop
                           if (!eq(alloc_rate_set, "data"))...
              } // end
             //end UNIT specific settings
// ******* TERM specific settings ***********
if (eq(submodel, "TERM")){
       prem_lookup_temp = prem_lookup;
```

```
prem_lookup_freq_temp = atoi(prem_lookup_freq);
       prem_init_different_temp = prem_init_different;
                                                        //premium rate different in first period?
       secondary_prop_continue = atof(dd_prop_cont);
       adjust_prem_and_claims_temp =adjust_prem_and_claims;
if (prem_curr <= 0.) {</pre>
                           // deal with covers with zero premium (free covers)
       adjust_prem_and_claims_temp = "N"; // cannot adjust claims and premiums based on the zero
premium
       if (promil < 0.3 && (prem_lookup_temp=="Y")){</pre>
                                                       // run YRT cover with zero premium only
until next renewal
              benefit_term =
prem_lookup_freq_temp*12*(1+xint(elapsed_months/(prem_lookup_freq_temp*12)));
              ben_period_min = benefit_term;
       // for LP covers with zero premium (promil < 0.3 && !prem lookup=="Y") run until end (with
the zero premium)
       // if there are discounts (negative values) then these should be zeroised so that the zero
premium will not be further reduced
       if((prem_disc_perc + prem_disc_perc_2 + prem_disc_dcr1_r) <=-100.){</pre>
              double temp_prem_scale = 1000.;
              if (eq(ben_class,"phi"))
                     temp prem scale = 100.;
              prem_curr = sum_ins_curr*promil/temp_prem_scale;
       }
}
if (elapsed_months_extra + elapsed_months > prem_lookup_freq_temp * 12) // assume that the tarif
date was a renewal date, not the start of the cover
       prem_init_different_temp = "N";
// Check which table to use - tarif level or product code level
if (prem_lookup_temp=="Y") {
       if (inlist(ben_class, "phi,ltc") )// for yrt phi, looks up GP rates in table based on
prem_key in tarif_spec
              use_tarif_spec_prems = "Y";
       //Check if tarif exists in the tarif_spec table
       stri=prem key start;
       if (stri != "N/A" && !eq(stri,"0")){
              use tarif spec prems = "Y";
              // check premium frequency (term) is >0 , otherwise level
              if(atoi(tarif_spec_lookup_freq)==0) {;
                     prem lookup temp="N";
                     use_tarif_spec_prems = "N";
       }
              // end if (prem_lookup=="Y")
// Set prem rate reference and table
if (use_tarif_spec_prems == "Y"){// for yrt phi, looks up GP rates in table based on prem_key in
tarif_spec
```

```
// define starting point for prem_key
       xstring prem_key_build=prem_key_start;
               //if (LOOKUP_FAILED) // tarif does not exist in tarif_spec table
               if(prem_key_build == "N/A")
                      throw NonFatalError("tarif" + xstring(tarif) + " not in tarif spec table.");
// expand starting prem key to include occupation, endage, sex, smoker as necessary
               if(eq(premkey_occ,"Y")){
                      if(eq(prod code, "phi-mitriya")){
                             if (inlist(occ_key,"1,2"))
                                     prem key build=prem key build+occ key+" ";
                             else
                                     prem key build=prem key build+"1 ";
                      }
                      else {
                             if (inlist(occ_key,"1,2,3"))
                                     prem_key_build=prem_key_build+occ_key+"_";
                             else
                                     prem key build=prem key build+"3 ";
                      }
               }
       //appends end age from policy to prem key for 2004 hachnasa btucha tarifs that allow a range
of end ages
       // only end ages listed below are permissible, otherwise use default end age = 65
               if(eq(premkey_endage,"Y")){
                      xstring endage=xstring(age at issue + benefit term/12.);
                      if(eq(prod_code, "phi-mitriya")){
                             if (inlist(endage, "60,62,64,65,67,68,69,70"))
                                     prem_key_build=prem_key_build+endage+"_";
                             else
                                     prem_key_build=prem_key_build+"65_";
                      }
                      else {
                             if (inlist(endage, "60,62,64,65,67,70"))
                                     prem_key_build=prem_key_build+endage+"_";
                             else
                                     prem_key_build=prem_key_build+"65_";
                      }
               }
               if(eq(premkey_sex,"Y"))
                      prem_key_build=prem_key_build+sex+"_";
               if(eq(premkey_smoker,"Y"))
                      prem_key_build=prem_key_build+smoker_stat+"_";
```

```
if(eq(premkey_insured,"Y"))
                      prem_key_build=prem_key_build+xstring(insured)+"_";
              if(eq(prod_code, "rsapir1-2019")){
                      if(origidate >= 201909)
                             prem_key_build=prem_key_build+"postfix_";
                      else
                             prem_key_build=prem_key_build+"prefix_";
              }
// check if for specific tarif prem rates gross vary by fund name and prem_profil_type (in/out)
//xstring prem code test;
int prem_key_test;
       prem_code_test=prem_key_build+fund_name_temp+"_"+prem_profil_type+"_";
       prem code test temp=prem key build+fund name temp+" "+prem profil type+" 0";
       prem key test =prem rates series;
              if(prem rates series == -99999){
                      prem_code_test=prem_key_build+fund_name_temp+"_";
                      prem_code_test_temp=prem_key_build+fund_name_temp+"_0";
                      prem_key_test =prem_rates_series;
                             if(prem_rates_series == -99999){
                                     prem_code_test=prem_key_build;
                                     prem_code_test_temp=prem_key_build+"0";
                                     prem_key_test =prem_rates_series;
                                            if(prem_rates_series == -99999){
                                            throw NonFatalError("premium key " +prem_code_test+"0-
not in prem_rates for policy: "+pol_number +" tarif:"+xstring(tarif));
                             }}}
// find appropriate premium series
// conditional loop checks if origidate falls within prem series start and end dates
       prem_key_temp=prem_code_test+xstring(j);
       if (eq(prem series year, "SA")) {
       // Find series by SI level
              while ((sum_ins_curr/1000)>=prem_rates_temp_series_end)
                      j=j+1;
                       prem_key_temp=prem_code_test+xstring(j);
              } // end while loop
       }
       else {
       // Find series by start date
              while (origidate>prem_rates_temp_series_end)
                      j=j+1;
                       prem_key_temp=prem_code_test+xstring(j);
              } // end while loop
       prem code=prem key temp;
}
if (!(use_tarif_spec_prems == "Y") && prem_lookup_temp=="Y" ){
       row = prod_code+"_"+fund_name_temp+"_"+sex+"_"+smoker_stat;
```

```
col = "Prem_code";
       prem_code = prem_code_map_tbl;
}
/******* set claims cost & paid-up values tables
****************************
if(eq(ben_class,"phi") || eq(ben_class,"ltc")) {
       claims_cost_key = claims_cost_key_start; // from tarif_spec table
       //append end age for 2004 hachnasa btucha tarifs that allow a range of end ages
       if(eq(prod_code, "phi-mitriya")){
              if (inlist(occ_key,"1,2"))
                      claims_cost_key=claims_cost_key+occ_key+"_";
              else
                      claims_cost_key=claims_cost_key+"1_";
       }
       if(eq(claimskey_endage,"Y")){
              endage=xstring(age_at_issue + benefit_term/12.);
              if(eq(prod_code,"phi-mitriya")){
                      if (inlist(endage, "60,62,64,65,67,68,69,70"))
                             claims_cost_key=claims_cost_key+endage+"_";
                      else
                             claims_cost_key=claims_cost_key+"65_";
              }
              else {
                      if (inlist(endage, "60,62,64,65,67,70"))
                             claims_cost_key=claims_cost_key+endage+"_";
                      else
                             claims_cost_key=claims_cost_key+"65_";
              }
       }
       //append sex
       if(eq(claimskey_sex,"Y")){
              if (inlist(sex, "M, F"))
                      claims_cost_key=claims_cost_key+sex+"_";
              else
                      claims_cost_key=claims_cost_key+"M_";
       }
       // loop to find generation of claim cost
       j=0;
       key_temp=claims_cost_key+xstring(j);
       int tarif_claims_series_start =atoi(claims_series_year);
       //test lookup
       series col key="Series End";
       series_end_temp = claims_cost_factors_tbl;
       if(series_end_temp == 10000000.)
```

```
throw NonFatalError("key " + key_temp + " not in claims_cost_factors table.");
       while (tarif_claims_series_start>claims_cost_factors_tbl) {
              j=j+1;
              key_temp=claims_cost_key+xstring(j);
       } // end while loop
       claims_cost_key=key_temp;
              determine claims_cost_multiplier from tarif_spec table
       if(eq(claims_factor, "OCC"))
              claims_cost_multiplier = atof(claims_factor_occ)/100.;
       else
              claims_cost_multiplier = atof(claims_factor)/100.;
       if ((eq(life->ben class, "phi") || (eq(life->ben class, "ltc") && eq(life->paid up, "C"))) &&
use_phi_claims_cf == "Y") {
       // Determine PHI claims in payment reserves factor
       endage=xstring(round(age_at_issue + benefit_term/12.,0));
       if (!inlist(endage, "60,65,67")){
              if(atof(endage) < 62.)</pre>
                      endage="60";
              else {
                      if(atof(endage) < 66.)</pre>
                             endage="65";
                      else
                             endage="67";
                      }
       }
       phi_WP =waiting_period_modeled;
       if (!inlist(phi_WP,"3,6"))
              phi_WP="3";
       xstring rate = "2.5";
       if (year start <= 1992)
              rate = "4";
       }
} // end if ben_class is ltc or phi
/****************** decrement and risk rates table*****************************/
key_temp ="risk_rates_" + company;
if (!inlist(ben_class,"dth,mortg,fib")) {
              if (eq(prod_assumpt_key_tbl,"tarif"))// for all phi whose decrement rates vary by
tarif
                      decrem_rates_tbl = "phi_decrem_"+ incidencerate_key;
              else
                      decrem_rates_tbl = prod_assumpt_key_tbl;
       if (eq(use_uw_date,"N")) {
              double check=0.0;
              //check if key is 1-policy type, 2-company, 3-sex&smoker
              col char = pol type phi incidence;
```

```
check = decrem_rates_check;
              if (check == -999999){
                    col_char = company;
                    check = decrem_rates_check;
                    if (check == -999999)
                           col_char = sex+smoker_stat;
              }
      else col_char = sex+smoker_stat;
       decrem_rate_key = col_char;
}
int_rate_res =intres;
// set reserve factors
if (eq(res_basis,"Perc_Prem")) {
       for (int i=0; i <= 120; i++){
             res_fac_row_key =i;
              res_perc_prem[i] = reserve_factors_tbl;
      } //next i
}
      if (inlist(ben_class, "dth, mortg, fib"))
              death_ben_w = "Y";
       else
              death_ben_w = "N";
       } //end TERM specific
// ******* TRAD specific settings ***********
if (eq(submodel, "TRAD")) {
       prem_lookup_temp = prem_lookup_trad;
       if(prem_lookup_trad=="N/A")
              throw NonFatalError("Product code " + prod_code + " not in prod specs trad table.");
       prem_lookup_freq_temp =atoi(prem_lookup_freq_trad);
      matan_perc_temp =atoi(matan_perc);
       //premium_inc =atof(prem_inc);
       // set old numerical product code to reference sv tables
      prod_code_old = xstring(prodcdold);
       /******************* set sv and puv table***********************************/
       if(eq(sur_val_method,"sv_table")){
              if (eq(ben_class, "GIMLA")){
                    sv_tbl = fund_name_temp + "_" + prod_code_old + "_" + sex;
                    puv_tbl = fund_name_temp + "_puv_" + prod_code_old + "_" + sex;
              }
```

```
else {
                     sv_tbl = fund_name_temp + "_" + prod_code_old;
                     puv_tbl = fund_name_temp + "_puv_" + prod_code_old;
       }
int_rate_res =intres;
death_rates_res = "AMF"+xstring(mort_res);
mort addn res = mort addn;
// ******** Set Zilmer Rate *******************
double zill;
       if(eq(ben_class, "GIMLA"))
              zill = 0.0;
       else {
              if(eq(ben_class,"WOL")){
                     if(year_start < 1996)</pre>
                            zill = 1.5;
                     else \{zill = 2.0;\}
              else {zill = 3.0;} // for all other endowment type products (END,YTRON)
              }
       if(year_start < 1987) // adjustment to reflect zillmer reduction in 1986</pre>
              zill = zill * 0.5;
zillmer_si_book = zill;
zillmer_si_tax = zill;
       } // end TRAD specific
// close function
6.1.1.3.2.6
                set_from_data
void set_from_data (void) {
int i=0, yr=1;
// Set up regular initial commission percentage (on premium or reg.comm)
       i= max(xint((elapsed_months-1)/12.) , 0);
       comm_regular_pc[0+i] = amala_0;
       comm_regular_pc[1+i] = amala_1;
       comm_regular_pc[2+i] = amala_2;
       comm_regular_pc[3+i] = amala_3;
       comm_regular_pc[4+i] = amala_4;
       comm_regular_pc[5+i] = amala_5;
       comm_regular_pc[6+i] = amala_6;
       comm_regular_pc[7+i] = amala_7;
       comm_regular_pc[8+i] = amala_8;
       comm_regular_pc[9+i] = amala_9;
       comm regular pc[10+i] = amala 10;
       comm regular pc[11+i] = amala 11;
```

```
comm_regular_pc[12+i] = amala_12;
       comm_regular_pc[13+i] = amala_13;
       comm_regular_pc[14+i] = amala_14;
       comm_regular_pc[15+i] = amala_15;
for (yr = 16; yr<115-i; yr++) {
       comm_regular_pc[yr+i] = amala_16;
}
// Set up Nihul commission percentage (on premium or reg.comm)
       comm_nihul_rate[0+i] = amala_nihul_0;
       comm_nihul_rate[1+i] = amala_nihul_1;
       comm_nihul_rate[2+i] = amala_nihul_2;
       comm_nihul_rate[3+i] = amala_nihul_3;
       comm nihul rate[4+i] = amala nihul 4;
       comm nihul rate[5+i] = amala nihul 5;
       comm nihul rate[6+i] = amala nihul 6;
       comm_nihul_rate[7+i] = amala_nihul_7;
       comm_nihul_rate[8+i] = amala_nihul_8;
       comm_nihul_rate[9+i] = amala_nihul_9;
       comm_nihul_rate[10+i] = amala_nihul_10;
       comm_nihul_rate[11+i] = amala_nihul_11;
       comm_nihul_rate[12+i] = amala_nihul_12;
       comm_nihul_rate[13+i] = amala_nihul_13;
       comm_nihul_rate[14+i] = amala_nihul_14;
       comm_nihul_rate[15+i] = amala_nihul_15;
       comm_nihul_rate[16+i] = amala_nihul_16;
for (yr = 17; yr<comm_nihul_rate.size()-1-i; yr++) {</pre>
       comm_nihul_rate[yr+i] = amala_nihul_16;
}
// Set up supervisor commission percentage
       i= max(xint((elapsed_months-1)/12.) , 0);
       comm spvisor[0+i] = amala pikuach 0;
       comm_spvisor[1+i] = amala_pikuach_1;
for (yr = 2; yr<comm_spvisor.size()-1-i; yr++) {</pre>
       comm_spvisor[yr+i] = 0.0;
}
// Adjust renewal commission starting year
comm_renewal_year = xint(elapsed_months/12.) + comm_renewal_year;
// adjust discount variables
if (prem_disc_perc < 0)</pre>
       prem_disc_perc = min(-prem_disc_perc,100.0);
                                                           // discounts in data file are represented
as a negative percentage
       if (prem_disc_type == 4 || prem_disc_type == 6)
                                                           // permanent discount
               prem disc month = max(1000, prem disc month);
}
if (prem_disc_perc_2 < 0)</pre>
```

```
prem_disc_perc_2 = min(-prem_disc_perc_2,100.0); // discounts in data file are represented
as a negative percentage
       if (prem disc type 2 == 4 || prem disc type 2 == 6)
                                                                 // permanent discount
              prem_disc_month_2 = max(1000,prem_disc_month_2);
}
if (prem_disc_step > 0)
                                                                            //If kod discount =120
- Descreasing discount
       if (prem disc dcr5 m > 0)
              prem_disc_step1_r = min(-prem_disc_dcr5_r,100.0);
                                                                                  // Basic discount
rate
       if (prem disc dcr4 m > 0)
              prem_disc_step2_r = min(prem_disc_dcr5_r-prem_disc_dcr4_r,100.0); // 2nd step
Additional discount rate
       if (prem disc dcr3 m > 0)
              prem disc step3 r = min(prem disc dcr4 r-prem disc dcr3 r,100.0); // 3th step
Additional discount rate
       if (prem disc dcr2 m > 0)
              prem disc step4 r = min(prem disc dcr3 r-prem disc dcr2 r,100.0); // 4th step
Additional discount rate
       if (prem disc dcr1 m > 0)
              prem disc step5 r = min(prem disc dcr2 r-prem disc dcr1 r,100.0); // 5th step
Additional discount rate
       prem_disc_step1_m = prem_disc_dcr1_m + prem_disc_dcr2_m + prem_disc_dcr3_m +
prem_disc_dcr4_m + prem_disc_dcr5_m; // The 1st step discount months rest
       prem disc step2 m = prem disc dcr1 m + prem disc dcr2 m + prem disc dcr3 m +
prem_disc_dcr4_m; // The 2nd step discount months rest
       prem disc step3 m = prem disc dcr1 m + prem disc dcr2 m + prem disc dcr3 m; // The 3th step
discount months rest
       prem_disc_step4_m = prem_disc_dcr1_m + prem_disc_dcr2_m; // The 4th step discount months
rest
       prem_disc_step5_m = prem_disc_dcr1_m; // The 5th step discount months rest
}
// ******* UNIT specific settings ********
if (eq(submodel,"UNIT")) {
       // Set up allocation rate for 585 (for other products this will come from usual table in
set_by_prodcode. See below for 583.)
       if (eq(alloc_rate_set_temp,"data")) {
              alloc_rate[1] = aloc_kafuy;
              //alloc_rate_period[1] = 800;
              alloc_limit = allocation_limit_amount;
              int imp alok yr = atoi(imp manual alloc rate term dt.substr(5,4));
              int imp alok mth int;
              if (imp alok yr == 1900 || imp alok yr == 3000)
                      alloc_rate_period[1] = 800; else
                                    xstring imp_alok_mth =
imp_manual_alloc_rate_term_dt.substr(2,3);
```

```
alloc_rate[2] = product_alloc_rate_percent;
                                    if(eq(imp_alok_mth, "JAN"))
                                            imp_alok_mth_int = 1; else {
                                    if(eq(imp_alok_mth, "FEB"))
                                            imp_alok_mth_int = 2; else {
                                    if(eq(imp_alok_mth, "MAR"))
                                            imp_alok_mth_int = 3; else {
                                    if(eq(imp_alok_mth, "APR"))
                                            imp_alok_mth_int = 4; else {
                                    if(eq(imp_alok_mth, "MAY"))
                                            imp_alok_mth_int = 5; else {
                                    if(eq(imp_alok_mth, "JUN"))
                                            imp alok mth int = 6; else {
                                    if(eq(imp_alok_mth, "JUL"))
                                            imp alok mth int = 7; else {
                                    if(eq(imp_alok_mth, "AUG"))
                                            imp_alok_mth_int = 7; else {
                                    if(eq(imp_alok_mth, "SEP"))
                                            imp_alok_mth_int = 9; else {
                                    if(eq(imp_alok_mth, "OCT"))
                                            imp_alok_mth_int = 10; else {
                                    if(eq(imp_alok_mth, "NOV"))
                                            imp_alok_mth_int = 11; else {
                                    if(eq(imp_alok_mth, "DEC"))
                                            imp_alok_mth_int = 12; else {
                                    imp_alok_mth_int = 1;
                                    alloc_rate_period[1] = (imp_alok_yr - valn_year) *12 +
(imp_alok_mth_int - valn_month) + elapsed_months;
                                    alloc rate period[2] = 800;
       }
       // Set management fee for Profil
       if (eq(ben_class,"Profil")) {
              if (mgt_fee_fixed <= 0.0)</pre>
                      mgt_fee_fixed = max(0.0, mgt_fee_variable);
              if (mgt_fee_variable <= 0.0)</pre>
                      mgt_fee_variable = max(0.0, mgt_fee_fixed);
              mgt_fee_fixed = (mgt_fee_fixed + mgt_fee_variable)/2.0;
              mgt_fee_fixed_puresav = mgt_fee_fixed;
if(!inlist(policy_type,"private,selfemp") || res_kitzba >0.){
              if(age_at_issue + elapsed_months/12. < sm_annuity[sm_annuity.size()-1]->takeup_age){
                      if(age_at_issue + elapsed_months/12. < takeup_age){</pre>
                             benefit term original = min(benefit term, (takeup age - age at issue)
* 12);
                      }
                      else {
                             benefit_term_original = min(benefit_term, elapsed_months + 18);
                      if(dump vars == "Y"){
```

```
log_strm<<"Annuity size: "<<sm_annuity.size()<<endl;</pre>
                            log_strm<<"End age: "<<sm_annuity[sm_annuity.size()-1]-</pre>
>takeup_age<<endl;}</pre>
                            benefit_term = (sm_annuity[sm_annuity.size()-1]->takeup_age -
age_at_issue) * 12 + 1;
                            ben_period_min = (min_retirement_age - age_at_issue) * 12;
              else
                     benefit_term = min(benefit_term, elapsed_months + 18);  // make policy
continue for 1.5 year as paid up
                     ben_period_min = benefit_term;
                     benefit_term_original = benefit_term;
              } // end else
              // Add 18 months for expired policies where benefit_term < elapsed_months
              if (elapsed_months >= benefit_term && eq(prog_name,"ADIF")){    // exclude KLASI
savings policies as SI is fixed according to term
                     benefit term = elapsed months + 18;
                     ben period min = benefit term;
                     benefit_term_original = benefit_term;
                     }
       }
if(inlist(policy_type,"private,selfemp") && res_kitzba <= 0. && !eq(ben_class,"profil")){</pre>
              if(benefit_term <= elapsed_months){</pre>
                     benefit_term = elapsed_months + 18;
                     ben period min = benefit term;
                     }
              else{
                     if(age_at_issue + int(benefit_term/12.) > fix_term_end_age_limit){
                                                                                             //End
age bigger then 80
                            if(age_at_issue + elapsed_months/12. < fix_term_curr_age_max){</pre>
                                                                                              //
if current age under 70
                                    benefit_term = min(benefit_term, (fix_term_new_end_age -
age_at_issue) * 12); // End age fixed to 75
                                    ben_period_min = benefit_term;
                            else{
                                    benefit_term = min(benefit_term, elapsed_months +
fix_term_curr_age_above_max_add_months);
                                    ben period min = benefit term;
                     }
              }
       }
} // end UNIT specific
if (inlist(policy_type, "private, selfemp") && res_kitzba <= 0. && eq(ben_class, "profil")) {
       benefit_term = max((omega_age_dec - age_at_issue) * 12,0);
       if(age_at_issue + elapsed_months/12 >= omega_age_dec) //current age bigger than 100
                     benefit_term = elapsed_months + 18;
       ben_period_min = benefit_term;
}
```

```
if (eq(submodel, "TERM")) {
       // set health_occ_perc as total medical and occupational loading
       health_occ_perc = min(999.,health_perc + occ_perc);
}
       // if (eq(sub_model,"TERM"))
// close function
6.1.1.3.2.7
                 set from tables
void set_from_tables (void) {
int i=0, yr=1, cal_yr=1;
double comm=0.0, e_madad=0.0;
//************** Set Expenses ****************
e_madad = exp_madad;
if (prem_term <= 1) { // Single premium</pre>
       exp_init_fix =i_perpol_sp/e_madad*madad_current;
       exp_init_perc_prem =i_single;
       exp_init_fix_cov = i_percov_sp / e_madad * madad_current;
       exp_ren_perc_prem = 0.0;
       exp_ren_fix =m_pup/e_madad*madad_current;
       exp_ren_fix_cov = m_percov_sp / e_madad * madad_current;
} //end if
else {
       exp_init_fix =i_perpol/e_madad*madad_current;
       exp_init_fix_cov = i_percov / e_madad * madad_current;
       exp_init_perc_prem = i_prem;
       exp_ren_perc_prem =m_prem;
       exp_ren_fix =m_perpol/e_madad*madad_current;
       exp_ren_fix_cov = m_percov / e_madad * madad_current;
} //end else
exp_claim_perc =m_clms;
exp_pup_fix = m_pup/e_madad*madad_current;
exp_ren_perc_annuity =m_ann_pmt;
exp_ren_res = m_res;
if (!eq(paid_up, "G"))
       exp_claim_fix = m_clms_cov / e_madad * madad_current;
else
       exp_claim_fix = 0.0;
// ******** decrement multipliers *********
mort_mult_col_key=sex + smoker_stat;
mort_mult = mort_mult_tbl;
if(death ben w=="N") {
   decrem_mult_col_key =sex+smoker_stat;
```

```
decrem_mult_row_key =decrem_mult_set_temp;
       decrem_mult =decrem_mult_tbl;
       decrem_mult_row_key =decrem_mult_set_temp+"_np";
       decrem_mult_res = decrem_mult_tbl;
       for (i = 1; i <= 112; i++)
              if (i>GetColumnKeyValuesCount(clms_mult_i)-1)
                     claims_multiplier[i] = claims_multiplier[i-1];
              else {
                     clms_mult_i_col= i;
                     claims_multiplier[i] =clms_mult_i;
// Set claims inflation percentage (duration=0)
claim inflation perc=clms mult infl;
} // end if
// ***************** Set lapse Rates*********************
if ( lapse_force_month == 1 && lapse_force_rate == 0.){
       col_char = "lapse_rate";
       lapse_force_rate = masslaps_tbl;
// ************** Adjust lapse Rates by Agent Lapse Factors******
double clawback_factor;
claw_fact_set = "clawback_factor_" + clwback_set;
agency_no_lookup = xstring(channel);
clawback_factor = lapse_clawback_factor;
       // column not found in lapse_factor_tbl
       if(clawback_factor == -99999.) {
       claw_fact_set = "clawback_factor_default";
       clawback_factor = lapse_clawback_factor;
       } // end if
       //row not found in lapse_factor_tbl
       if(clawback_factor == 99999.)
       {
              agency_no_lookup = xstring(agency_no);
              clawback_factor = lapse_clawback_factor;
              if (lapse clawback factor ==99999.)
                      agency_no_lookup = "0";
                     clawback factor = lapse clawback factor;
              } // end if
       } // end if
if (clawback_factor == -99999.)
       throw NonFatalError("Clawback column " + claw_fact_set + " not found.");
```

```
// ************ Set commission & clawback parameters
       Check if clawback info is by policy type or not
i=1;
comm_claw_row_key=xstring(i);
clwback_set_temp = clwback_set;
comm_ext_col_key = "SPV_" + clwback_set_temp;
comm = comm_claw_prpn_tbl;
if (comm == 9999.)
       clwback_set_temp = "default";
comm ext col key = "SPV " + clwback set temp;
comm = comm_claw_prpn_tbl;
if (comm == 9999.)
       throw NonFatalError("Error looking up clawback rates for " + comm_set_temp + " in
comm_claw_prpn_tbl.");
for (i=1; i<180; i++){}
       comm_claw_row_key=xstring(i);
       comm_ext_col_key="SPV_" + clwback_set_temp;
       comm_claw_prpn_spv[i] = comm_claw_prpn_tbl;
       if(comm_claw_prpn_spv[i]==10000)
              comm_claw_prpn_spv[i] = comm_claw_prpn_spv[i-1];
}
i=1;
comm_claw_row_key=xstring(i);
clwback_set_temp = clwback_set;
comm_ext_col_key = "HEKEF_" + clwback_set_temp;
comm = comm_claw_prpn_tbl;
if (comm == 9999.)
       clwback_set_temp = "default";
comm_ext_col_key = "HEKEF_" + clwback_set_temp;
comm = comm_claw_prpn_tbl;
if (comm == 9999.)
       throw NonFatalError("Error looking up clawback rates for " + comm_set_temp + " in
comm_claw_prpn_tbl.");
for (i=1; i<180; i++){}
       comm_claw_row_key=xstring(i);
       comm_ext_col_key="HEKEF_" + clwback_set_temp;
       comm_claw_prpn_hekef[i] = comm_claw_prpn_tbl;
       if(comm_claw_prpn_hekef[i]==10000)
              comm_claw_prpn_hekef[i] = comm_claw_prpn_hekef[i-1];
       if (i > 12 \&\& i <= 24)
              comm_claw_prpn_hekef[i] = comm_claw_prpn_hekef[i] * clawback_factor;
}
```

```
// Set up extra commission percentage (on premium or reg.comm)
// Check whether to read in by agent or product and company level
if (comm_extra_agent_use=="N") { //read by product
       // check to see if table row includes the agent
       temp_comm_set = xstring(agent_no);
       comm_ext_col_key = "HEKEF";
       comm_hekef_pc=comm_extra_tbl;
       //if (LOOKUP_FAILED==0)
       if(comm_hekef_pc!=9999. && comm_hekef_pc!=10000.) // To avoid errors
               temp_comm_set=xstring(agent_no);
       else temp_comm_set = comm_set_temp;
       comm ext col key ="CO MIN TERM";
       comm min prem term = comm extra tbl;
       comm ext col key="PRIZES";
       comm_prizes_pc = comm_extra_tbl;
       comm_ext_col_key="HEKEF";
       comm_hekef_pc = comm_extra_tbl;
       comm_ext_col_key = "HEKEF_res";
       comm_hekef_pc_res = comm_extra_tbl;
       if(comm_hekef_pc_res == 9999.)
              comm_hekef_pc_res = 0.0;
       comm_ext_col_key = "PRIZES_res";
       comm_prizes_pc_res = comm_extra_tbl;
       if(comm_prizes_pc_res == 9999.)
               comm_prizes_pc_res = 0.0;
       temp comm set = "risk";
       comm ext col key = "HEKEF";
       comm_hekef_pc_rider = comm_extra_tbl;
                                                           //
       } // end read comm_exra at product level
else
              // read comm_extra details from agent level table
       temp_agency_no = xstring(agency_no);
       comm_ext_col_key="CO_MIN_TERM";
       comm_min_prem_term = comm_extra_agent_tbl;
       // set prizes % by agency, channel, policy type & product (commission set)
       comm ext col key="PRIZES";
       comm_prizes_pc = comm_extra_agent_tbl;
       comm ext col key="HEKEF";
       comm_hekef_pc = comm_extra_agent_tbl;
       comm ext col key = "HEKEF res";
       comm_hekef_pc_res = comm_extra_agent_tbl;
       if (comm_hekef_pc_res == 10000.)
               comm_hekef_pc_res = 0.0;
```

```
comm_ext_col_key = "PRIZES_res";
       comm_prizes_pc_res = comm_extra_agent_tbl;
       if (comm_prizes_pc_res == 10000.)
              comm_prizes_pc_res = 0.0;
       comm_ext_col_key = "HEKEF";
       comm_set_temp = "risk";
       comm_hekef_pc_rider = comm_extra_agent_tbl;
       comm_set_temp=comm_set;
              // end read comm_extra details from agent level table
}
6.1.1.3.2.8
                 set_other_variables
void set_other_variables (void) {
int mth=1, year=1, i=0;
double total=0.0, total pup=0.0;
// cancel SI for profil
if (eq(ben_class,"profil")&& !eq(paid_up,"G"))
       sum_ins_curr = 0.0;
// set premium term
prem_term = benefit_term; // most products
if(mult_age_ind == 1)
       prem_term_original = benefit_term_original;
else
       prem_term_original = prem_term;
// set Capital requirement as a percentage of DAC-Books
if (dac_cap_apply=="N")
       dac_cap_perc_w = 0.0;
else {
       if (prod yr w < 1999)
               dac_cap_perc_w = 0.0;
       if (prod_yr_w >= 1999)
               dac_{cap_perc_w} = 30.0;
       if (prod_yr_w >= 2004)
               dac_cap_perc_w = 100.0;
}
// *********** Set percentage Bonus Rates **************
bonus[0] = 0.0;
for (i=1; i<=1199.;i++){
       if (i < GetRowKeyMinValue(bonus_tbl) || paid_up=="G")</pre>
       bonus[i] = 0.0;
       else {
       if (i > GetRowKeyMaxValue(bonus_tbl))
                      bonus[i] = bonus[i-1];
           else
                      bonus_tbl_row = i;
                      bonus[i] = bonus tbl;
               }
```

```
}
}
/***** Calculate variables maturity_period_w, and commence_period_w.*****/
commence_period_w = -elapsed_months;
maturity_period_w = commence_period_w + benefit_term;
mat_period_min = maturity_period_w;
mat_period_original = maturity_period_w;
maturity_period_ann = maturity_period_w;
if(mult_age_ind == 1){
              mat_period_min = commence_period_w + ben_period_min;
              mat period original = commence period w + benefit term original;
if (paid up =="G"){
       maturity_period_w = 0;
       mat_period_min = 0;
       mat_period_original = 0;
       ann_maslul = atoi(rein_set);
       rein_set = "0";
       ann_death = ann_maslul - int(ann_maslul/10)*10;
}
// for a rollup run, allow for extra elapsed months
if (eq(projection_type,"Rollup") && (elapsed_months+elapsed_months_extra<=12))</pre>
       commence_period_w = -(elapsed_months+elapsed_months_extra);
if (maturity_period_w >= 12*xint(t_high/12.))
       throw("Benefit Term exceeds projection period, rerun with larger t_high\n");
// ***************** Set Interest rates *********************
// if discount type = Single, then replace the discount rate vector with the input value
if (eq(ev_discount_rate_type, "Single")) {
       double temp_inv_inc = monthly_rate(invinc);
       double temp_disc_rate = monthly_rate(ev_disc_rate);
       v_month_w = 1. / (1. + temp_disc_rate);
       for (i=0; i<=119;i++){}
              v_month_t[i] = v_month_w;
              v_month_t_rm[i] = v_month_w;
              ann_v_month_t[i] = v_month_w;
              inv_rate_rf_mth_t[i] = temp_disc_rate;
              ann_inv_rate_rf_mth_t[i] = temp_disc_rate;
              if (free inv prop t[0] \leftarrow 1.0) {
                      inv_rate_mth_t[i] = temp_disc_rate*free_inv_prop_t[i] + temp_inv_inc*(1.-
free_inv_prop_t[i]);
                      ann_inv_rate_mth_t[i] = temp_disc_rate*free_inv_prop_t[i] + temp_inv_inc*(1.-
free_inv_prop_t[i]);
                      v_month_t_ifrs[i] = v_month_w;
                      ann_v_month_t_ifrs[i] = v_month_w;
```

```
}
              }
       }
if (eq(ben_class, "profil"))
       mgt_fee_variable = 0.0;
// ****** set premium freq **********************************
if (prem_term == 1)
       prem_freq = 1;
// ****** set commission variables **************************
//commission reduction for short premium terms
double red comm = 1.;
if(comm min prem term > 0)
       red_comm = min(1.,prem_term_original / comm_min_prem_term);
if(prem_term_original == 1) red_comm = 0.0; // only renewal commission for SP (pure savings)
if (red_comm<1.) {</pre>
       for(i = 0; i<116; i++){
              comm_regular_pc[i] = comm_regular_pc[i]*red_comm;
       }
//******* miscellaneous variables **************************
omega_age_w = omega_age;
// Set DAC amortisation period
if (prem_term_original == 1)
       dac_type_temp = "none";
if(eq(dac_amort_type, "Lifetime"))
       dac_amort_per = prem_term_original;
if(dac_amort_per > prem_term_original)
       dac_amort_per = prem_term_original;
//Set basic_percentage
if(eq(ben_class,"profil"))
       basic_perc_w = 100. - saving_perc;
else {
       if (alloc_rate[1]<100)</pre>
              basic_perc_w = 100. * (1 - saving_perc/100.) / (1-alloc_rate[1]/100);
       else
              basic_perc_w = 0.0;
}
if (prem_term == 1) {
       basic_perc_w = 0.0; // single premium policy forced to be pure savings
       if (eq(ben class, "adif"))
              sum_ins_curr = 0.0; // no fixed SI for SP Adif
}
// Set variables for risk-rider (normally for Sapir sold with Meitav Managers Policy)
if (eq(ben class, "Adif") && (risk si>0.000001)) {
       prem_rates_risk = fund_name_temp+"_"+risk_code;
       si_unit_w[25] = prem_rates_risk_1/prem_rates_risk_2;
```

```
prem_lookup_freq_w[25] = atof(prod_spec_risk_code);
}
// Set total percentage of initial regular commission
comm_reg_tot_w = 0.;
for (i = 0; i<115; i++)
       comm_reg_tot_w = comm_reg_tot_w + comm_regular_pc[i];
// Adjust commission paid on units to a (limited) percentage of management fee if neccessary
if (comm_perc_res_a[1] > 2.0)// assume that if it is > 2% then it represents x% of management fee
that is paid to agent
       for (year = 1; year<comm_perc_res_a.size(); year++)</pre>
               comm_perc_res_a[year] = min(comm_perc_res_a[year]/100. * mgt_fee_fixed ,
mgt_fee_fixed/(1+vat/100.));
if (eq(ben_class, "Profil"))
       for (year = 1; year<comm_perc_res_b.size(); year++)</pre>
               comm_perc_res_b[year] = comm_perc_res_a[year];
// Adjust initial reserve balance to remove persistency bonus
if (eq(ben_class, "Adif")) {
       if (eq(prod_code, "a80-00honi"))
                                           // adif 2000 adjust reserve by 5%
               unit_value_accum = (unit_value_accum-unit_value_savings)/1.05 +unit_value_savings;
       if (inlist(prod_code, "a80-01hon, a80-01kitz")) // adif 2001 adjust reserve by 7%
               unit_value_accum = (unit_value_accum-unit_value_savings)/1.07 +unit_value_savings;
       if (eq(prod_code, "asav"))
                                    // use surrender value as account balance
               unit_value_accum = surr_value_if;
}
// taken from term set other variables
if (eq(submodel, "TERM")){
if(prem_lookup_temp=="Y"){
       prem_rate_scale_w = base;
       if (prem rate scale w == 0)
               throw NonFatalError("Premium-Rate table scale is zero! Check the premium table for
record num:"+xstring(data_rec_num())+" product code: "+life->prod_code);
}
if((prem_lookup_temp=="N") && eq(ben_class,"PHI"))
       prem_rate_scale_w = 100.0;
// taken from term set_premium_si
if(!eq(paid_up,"C")){
       // formula to adjust current premium (add modal loading, remove policy fee and add back in
discount)
       // also used to derive discount or derive prem & claims loading
       // does not calculate SI
       tarif_spec_row_key= xstring(tarif);
       //no lookup while level premium
```

```
if(prem_lookup_temp=="N")
               prem_lookup_freq_temp = 0;
       double prem_curr_original = prem_curr; // used to compare calculated to original premium
       double prem_curr_calculated = prem_curr; // used to compare calculated to original premium
       double pol_fee_edit = policy_fee_if; // used for resetting prem discount below
       // If premium does not include modal loading, then add it in and also add it to the policy
fee
       if (mod load in prem=="N") {
               prem_curr_original = prem_curr_original * (1 + tat_shnatiut_rate/100.);
               pol fee_edit = pol_fee_edit * (1 + tat_shnatiut_rate/100.);
       }
       // premium includes the policy fee so remove it
       prem_curr_original = prem_curr_original - pol_fee_edit *
policies_curr/max(1.0,benefits_curr);
       //Check for zero SI
       if (sum_ins_curr<=0) {</pre>
               error msg = "Sum Insured <= 0"; // this will cause record not to be calculated and
reported in individual output with an error
               sum_ins_curr = 1.0; // required to avoid divide by zero
       }
       //
               Calculate premium according to premium rate tables
               get premium_rate_w as current tabular tarif
       //
       if(prem_lookup_temp=="Y"){
                      double last_lookup_age = age_at_issue + prem_lookup_freq_temp *
xint(xint(elapsed_months/12)/prem_lookup_freq_temp);
                      prem_rates_si_col= xstring(last_lookup_age);
                      if (elapsed months < prem lookup freq temp *12 &&
(prem_init_different_temp=="Y")){
                                     prem_rates_si_row = prem_code+"_I";
                                     premium rate w = prem rates si;
                      else {
                             prem rates si row = prem code;
                             premium_rate_w = prem_rates_si;
                      // apply prem factor to adjust phi rates for murchav
                      if (use_tarif_spec_prems == "Y")
                             premium_rate_w = premium_rate_w * atof(prem_factor)/100.;
                      if (premium_rate_w <= 0.0) {</pre>
                             error_msg = "prem_rate_in_table_<=_0"; // this will cause record not
to be calculated and reported in individual output with an error
                             premium_rate_w = 1.0;} // required to avoid divide by zero
                      double endage= atof(xstring(age_at_issue + benefit_term/12.));
                      if (endage <= last_lookup_age) {</pre>
                      error_msg = "Current_Age_>=_EndAge"; }
               }
```

```
Calculate premium
               if(prem_lookup_temp=="Y"){
                      prem_curr_calculated = (premium_rate_w * sum_ins_curr / prem_rate_scale_w) *
(1. + health_occ_perc/100.)* (1 + tat_shnatiut_rate/100.);
               }
       // Add back in the discount on current premium
       // DH: current premium is for month t=1, so need to add +1 to elapsed months before applying
the discount
       if (prem_disc_month > 0) {
               if (prem_disc_perc==100.)
                      prem_curr_if = 0.0; // Premium discount
               else
                      prem curr = prem curr/(1 - prem disc perc/100.); // Premium discount
       }
       if (prem_disc_month_2 > 0){
               if (prem_disc_perc_2==100.)
                      prem_curr_if = 0.0; // Premium discount
               else
                      prem curr = prem curr/(1 - prem disc perc 2/100.); // Premium discount
       }
       if(prem_disc_step > 0){ // If gradually discounts
               double temp_disc_step_r = min((prem_disc_step1_r + prem_disc_step2_r +
prem_disc_step3_r + prem_disc_step4_r + prem_disc_step5_r)/100. ,1.);
               if (temp_disc_step_r == 1.)
                      prem_curr_if = 0.0;
               else
                      prem_curr = prem_curr/(1 - temp_disc_step_r); // Reconer Premium before
discount
       }
       // Derive discount by comparing to the standard premium
       if (adjust prem and claims temp=="P" && ( !eq(ben class, "mortg") || prem disc step == 0)) {
               prem_disc_perc = 100.0 * (1.0 - prem_curr_original / prem_curr_calculated);
               // limit the discount for mortgage business to remove negative discount
       if (eq(ben_class,"mortg"))
                      prem_disc_perc = max(prem_disc_perc,0.0);
               prem_disc_month = maturity_period_w;
              prem_curr = prem_curr_calculated; // prem_curr must be the standard (calculated)
premium, even for level premium, and later it is discounted back to the original premium
               prem_curr_changed = "Y";
       }
       if (prem_curr <= 0 && eq(paid_up,"N") && (promil >= 0.3) && (prem_disc_perc +
prem_disc_step1_r) <100.)</pre>
              error_msg = "Prem_curr<=_0";</pre>
} // end term set premium si
} // end term
       // close function
}
```

6.1.1.3.2.9 set_profil_rider_variables

```
void set profil rider variables (void) {
int i=0, j=0;
xstring temp = "blank";
xstring endage, key_temp;
int prem_key_test=0;
prem_code_rider="";
xstring temp_sex ="M";
claims cost key rider ="";
decrem_rate_key_rider="";
// Populate riders data from data-file
// riders_count_w contains the starting (byte) position of the riders for the current policy
if (riders_count_w > 0) {
                           // if this model point has riders
              for (i=0; i<sm riders.size(); i++){</pre>
                      if (sm riders[i]->prem cover input.substr(1,1) == "#")
                              sm riders[i]->prem cover = 0;
                      else
                              sm_riders[i]->prem_cover = atof(sm_riders[i]->prem_cover_input);
                      tarif_rider[i] = xint(sm_riders[i]->tarif);
                      sum_ins_curr_rider[i] = sm_riders[i]->sum_as;
                      benefits curr rider[i] = benefits curr;
                      discount_perc_rider[i] = sm_riders[i]->lod_amt_1;
                      discount_period_rider[i] = sm_riders[i]->lod_pe_r_1;
                      // adjust discount variables
                       if (discount_perc_rider[i]<0.0) {</pre>
                              discount_perc_rider[i] = min(-discount_perc_rider[i],100.0);
                               if (discount period rider[i]==0) //permanent discount
                                     discount_period_rider[i]=1000;
                              else
                                     discount_period_rider[i]=discount_period_rider[i] +
elapsed months;
                       }
                }
       riders_count_w = max(0,i); // change riders_count_w to be number of riders
}
       //close if (riders_count_w > 0)
       for (i=riders count w; i <= 25; i++) {
               tarif_rider[i] = 0; // fill remainder of prod_code array with zeroes
       }
// Populate riders specifications from prod-specs table
for (i=0; i <= riders_count_w; i++) {</pre>
       if (tarif_rider[i] > 0) {
```

```
rider_tarif_row_key=xstring(tarif_rider[i]);
              tarif_spec_row_key=xstring(tarif_rider[i]);
              prod_code_rider = rider_tarif_tbl;
              if(prod_code_rider == "N/A")
                      throw NonFatalError("Tarif " +xstring(tarif_rider[i]) + " not in rider tarif
map table.");
              prod_specs_rider_col="ben_class";
              risk_type_w[i] = atoi(prod_specs_rider);
              if(prod specs rider == "N/A")
                      throw NonFatalError("Product code " + prod_code_rider + " not in prod specs
table.");
              prod specs rider col="rider type";
              rider_type_w[i] = atoi(prod_specs_rider);
              // check for extra SI risk rider
              if (rider_type_w[i] == 1 && sm_riders[i]->risk_type==1)
                      rider_type_w[i] = 2;
              prod_specs_rider_col="si_unit";
              si_unit_w[i] =atof(prod_specs_rider);
              prod specs rider col="prem lookup freq";
              prem_lookup_freq_w[i] =atoi(prod_specs_rider);
              if (sm_riders[i]->rid_sex == 0)
                      temp_sex = "F";
              // get extra expense rates on charges
                      temp =prod_assumpt_rider_exp_tbl;
                      if(temp == "N/A")
                             throw NonFatalError("Product code " + prod code rider + " not in
prod_ass table.");
                   if(eq(pol_type_expenses, "selfemp"))
                             exp row key=exp_set_pol + "_" + temp+"_"+company+"_managers";
                      else
                             exp_row_key=exp_set_pol + "_" +temp+"_"+company+"_"+pol_type_expenses;
                      exp_row_lookup = exp_row_key;
                      exp_extra_perc_charge[i] = m_prem - exp_ren_perc_prem;
                      exp_initial_extra_perc_charge[i] = i_prem - exp_init_perc_prem;
                      exp_ren_fix_rider[i] = m_percov / exp_madad * madad_current;
                      exp_initial_fix_rider[i] = i_percov / exp_madad * madad_current;
                      if(m_prem==100000.)
                             throw NonFatalError("Expense set "
+temp+"_"+company+"_"+pol_type_expenses + " not in expense table.");
              // set prem_code for rider
              // Check which table to use - tarif level or product code level
              if (prem_lookup_freq_w[i]>0) {
                      //Check if tarif exists in the tarif_spec table
                      key temp=prem key start;
                      if (key_temp != "N/A" && !eq(key_temp,"0"))
                             use_tarif_spec_prems_rider[i] = 1;
              }
                      // end if (prem_lookup=="Y")
```

```
if (use_tarif_spec_prems_rider[i] == 1){// for yrt phi, looks up GP rates in table
based on prem_key in tarif_spec
                      // define starting point for prem_key
                      xstring prem_key_build=prem_key_start;
                      if(prem_key_build == "N/A")
                             throw NonFatalError("tarif" + xstring(tarif_rider[i]) + " not in tarif
spec table.");
                      // expand starting prem key to include endage, sex, smoker as necessary
                      //appends end age from policy to prem_key for 2004 hachnasa btucha tarifs
that allow a range of end ages
                      // only end ages listed below are permissible, otherwise use default end age
= 65
                      if(eq(premkey endage, "Y")){
                             endage=xstring(age at issue + benefit term/12.);
                      if (inlist(endage, "60,62,64,65,67,70"))
                             prem key build=prem key build+endage+" ";
                      else
                             prem_key_build=prem_key_build+"65_";
                      }
                      if(eq(premkey_sex,"Y"))
                             prem_key_build=prem_key_build+temp_sex+"_";
                      if(eq(premkey_smoker,"Y"))
                             prem_key_build=prem_key_build+smoker_stat+"_";
                      // check if for specific tarif prem rates gross vary by fund name and
prem_profil_type (in/out)
                      prem_profil_type = "out";
                      if (sm_riders[i]->risk_type>=0.5)
                             prem_profil_type = "in";
                      prem_code_test=prem_key_build+fund_name_temp+"_"+prem_profil_type+" ";
                      prem_code_test_temp=prem_key_build+fund_name_temp+"_"+prem_profil_type+" 0";
                      prem key test =prem rates series;
                      if(prem rates series== -99999) {
                             prem_code_test=prem_key_build+fund_name_temp+"_";
                             prem_code_test_temp=prem_key_build+fund_name_temp+"_0";
                             prem_key_test =prem_rates_series;
                                     if(prem_rates_series== -99999) {
                                            prem_code_test=prem_key_build;
                                            prem_code_test_temp=prem_key_build+"0";
                                            prem key test =prem rates series;
                                            if(prem_rates_series== -99999) {
                                            throw NonFatalError("premium key " +prem_code_test+"0" +
" not in prem_rates.tbl for policy: "+pol_number +", tarif:"+xstring(tarif_rider[i]));
                      }}}
                      // find appropriate premium series
```

end dates

```
// conditional loop checks if origidate falls within prem series start and
       i=0;
       key_temp=prem_code_test+xstring(j);
       if (eq(prem_series_year, "SA")) {
       // Find series by SI level
       row_char = key_temp;
       while ((sum_ins_curr_rider[i]/1000)>=prem_rates_series_end_im)
                      j=j+1;
                      key_temp=prem_code_test+xstring(j);
                 // end while loop
       }
       else {
              // Find series by start date
              row char = key temp;
              while (origidate>prem_rates_series_end_im)
                      j=j+1;
                       key_temp=prem_code_test+xstring(j);
              } // end while loop
} // end
              if (use_tarif_spec_prems_rider[i] = 1)
if ((use_tarif_spec_prems_rider[i] < 1) && (prem_lookup_freq_w[i]>0) ) {
       row = prod_code_rider+"_"+fund_name_temp+"_"+temp_sex+"_"+smoker_stat;
       col = "Prem_code";
       key_temp = prem_code_map_tbl;
}
//Assign prem_code_rider,
// First , make key temp 22 characters long and then add it to prem code rider
key_temp.resize(22);
prem_code_rider += key_temp;
       determine premium rate multiplier from tarif_spec table
prem_rate_multiplier_rider[i] = atoi(prem_factor)/100.;
if(prem_factor == "N/A") //if tarif not in tarif spec table
       prem_rate_multiplier_rider[i] = 1.0;
// set claims cost lookup code for rider
if(rider_type_w[i]==3) {
       key_temp = prod_code_rider + "_" + temp_sex + smoker_stat;
}
// Assign clailms cost key
key_temp.resize(22);
claims_cost_key_rider +=key_temp;
// Get rider SI increase perc
sum_ins_incr_rider[i] = sal_rider_tbl;
```

```
double lapse_rider = 0;
               lapse_type_col_key = "Lapse";
               lapse_expos_col_key = "premium";
               lapse_rider = lapse_rider_profil_dth/100 * lapse_factor_profil_rider/100;
               lapse_rider_profil_dth_array[i] = 1 - pow (1 - lapse_rider ,1./12.);
               key_temp = temp_sex+smoker_stat;
               key_temp.resize(22);
               decrem_rate_key_rider +=key_temp;
                      //close if (tarif_rider[i] != 0)
       }
               //close for loop
       // close function
}
6.1.1.3.2.10
                 set_reinsurance
void set reinsurance (void) {
int yr=0;
tarif_spec_row_key= xstring(tarif);
if (eq(ben_class,"profil")) {
       re_type="simple";
       for (yr =0; yr<149; yr++) {
              comm_ren_re[yr+1] = 0.0;
       expense_re_nom_temp = 0.0;
       comm_prof_re = 0.0;
       interest_rein = 0.0;
       re_clm_ret_fix = sum_ins_curr;
       prem_per_unit_si_re = 0.0;
       re_clm_rein_pc = reinsur_simple_perc;
       //if assumption set not found
       if (re clm rein pc == -99999.)
               re_clm_rein_pc = 0.0;
       else
              re_cost_perc =reinsure_simple_cost;
       // Populate riders reinsurance parameters
               for (int i=0; i < riders_count_w; i++) {</pre>
                      if (tarif_rider[i] != 0) {
                              rider_tarif_row_key = xstring(tarif_rider[i]);
                              prod_code_rider = rider_tarif_tbl;
                             re_cost_pc_rider[i] = reinsur_simple_rider_cost;
                              //if assumption set not found
                              if(reinsur_simple_rider_cost == -99999.)
                                     re_cost_pc_rider[i] = 0.0;
                      }
               }
       }
```

```
else {
// find appropriate reins_set series
// conditional loop checks if origidate falls within prem series start and end dates
       int j=0;
       rein_key_temp= rein_set+"_" + xstring(j);
       while (origidate > atoi(rein_series_end_key_temp))
              {
              j=j+1;
              rein_key_temp=rein_set+"_" +xstring(j);
       } // end while loop
        rein_set=rein_key_temp;
       // Set up regular reinsurance commission percentage (on premium re.)
       double comm = 0.0;
       for (yr =0; yr<149; yr++) {
              reinsur_comm_key = "COMM_"+xstring(yr+1);
              comm = atof(reinsur_comm);
              //if no error
              if(comm!= -99999. && comm != 99999.)
                      comm_ren_re[yr + 1] = comm;
              //if column (year) not found (end of table)
              if(comm == 99999.)
                      comm_ren_re[yr + 1] = comm_ren_re[yr];
              //if assumption set not found
              if(comm == -99999.)
                      throw NonFatalError("Error looking up commission from Life Treaty Details
table row: " + rein_set);
                      // end for loop
              }
       expense_re_nom_temp =atof(exp_re_nom);
       comm_prof_re = atof(prof_comm);
       interest_rein = atof(interest);
       re_clm_ret_fix = atof(retention) /
               atof(madad) * madad_current;
       re_clm_rein_pc = atof(quota_share_ppn);
       if (re_clm_rein_pc>1.0)
              re_clm_rein_pc = 100.0 - re_clm_rein_pc;
       re_type =type;
       prem_per_unit_si_re = atof(prem_extra);
       // Set reinsurance YRT prem rate ref
       prem_re_bw = blue_white;
       prem_re_wp = waiting_period_modeled;
       if (eq(re_type,"YRT")) {
              if(inlist(ben_class, "phi, ltc")) {
                      prem_re_row_key =reins_key_start; // from tarif_spec table
```

```
if(eq(prod_code, "phi-mitriya")){
                                     if (inlist(occ_key, "1,2"))
                                              prem_re_occ= occ_key;
                                     else
                                              prem_re_occ = "1";
                              }
                              else {
                                     if (inlist(occ_key, "1,2,3"))
                                              prem_re_occ= occ_key;
                                     else
                                              prem_re_occ = "3";
                              }
                      //appends end age from policy to claims_cost_key for 2004 hachnasa btucha
tarifs that allow a range of end ages
                      // only end ages listed below are permissible, otherwise use default end age
= 65
                              xstring endage;
                              endage=xstring(age_at_issue + benefit_term/12.);
                              if(eq(prod_code, "phi-mitriya")){
                                     if (inlist(endage, "60,62,64,65,67,68,69,70"))
                                             prem re endage= endage;
                                     else
                                             prem_re_endage= "65";
                              }
                              else {
                                     if (inlist(endage, "60,62,64,65,67"))
                                             prem_re_endage= endage;
                                     else
                                             prem_re_endage= "65";
                              }
                              if (inlist(sex, "M, F"))
                                      prem_re_sex=sex;
                              else
                                      prem_re_sex="M";
       else { //other products - not LTC or PHI
                prem_re_row_key= reinsur_kod_tavla;
```

```
// conditional loop checks if origidate falls within prem series start and end dates
       } //end if re_type = YRT
} //end else
if (submodel == "TRAD")
       re_clm_ret_fix = (sum_ins_curr - resinforce) * benefits_curr;
// close function
6.1.1.3.2.11
                 set_saving
void set_saving(void) {
int i=0;
// *************Set variables in submodel:************
// Accumulation Units for premium paying policies
for (i = 0; i < 16; i++) {
       saving->alloc_rate[i] = 100.;
       saving->alloc_rate_period[i] = 600;
}
saving->par_nonpar = par_nonpar;
saving->commence_period_w = commence_period_w;
saving->elapsed months = elapsed months;
saving->maturity_period_w = maturity_period_w;
saving->mgt_fee_fixed = mgt_fee_fixed_puresav;
saving->mgt_fee_variable = mgt_fee_variable;
saving->paid_up = paid_up;
saving->policies_curr = policies_curr;
saving->benefits_curr = benefits_curr;
saving->decrements apply = decrements apply;
saving->prem freq = prem freq;
saving->projection_type = projection_type;
for (i = 0; i<116; i++) {
       saving->comm_regular_pc[i] = 0.0;
       sm_saving->comm_perc_res[i] = comm_perc_res_b[i];
}
saving->comm_ren_perc_prem = comm_ren_perc_sav;
saving->comm_renewal_year = 1; //comm_renewal_yr_sav
sm_saving->unit_value_if = unit_value_savings;
sm_saving->unit_type = "Saving";
// close function
}
6.1.1.3.2.12
                 set_saving_pup
void set_saving_pup(void) {
```

```
int i=0;
// *************Set variables in submodel:******************
saving_pup->par_nonpar = par_nonpar;
saving_pup->commence_period_w = commence_period_w;
saving_pup->elapsed_months = elapsed_months;
saving_pup->maturity_period_w = maturity_period_w;
saving_pup->mgt_fee_fixed = mgt_fee_fixed_puresav;
saving_pup->mgt_fee_variable = mgt_fee_variable;
saving_pup->paid_up = paid_up;
saving_pup->policies_curr = policies_curr;
saving pup->benefits curr = benefits curr;
saving_pup->projection_type = projection_type;
saving_pup->decrements_apply = decrements_apply;
for (i=0; i < 116; i++)
       sm_saving_pup->comm_perc_res[i] = comm_perc_res_b[i];
sm_saving_pup->unit_value_if = unit_value_savings;
sm_saving_pup->unit_type = "Saving_pup";
// close function
6.1.1.3.2.13
                 validate_data
void validate_data(void) {
if (prem_term > benefit_term)
       error_msg = "prem_term_>_ben_term";
if (pv_period != 12)
       throw NonFatalError("Template set up for monthly projections. Change the discount period in
task.");
// check minimum age of mortality tables
int min_age_1 = 0;
if (age_at_issue < min_age_1)</pre>
       throw NonFatalError("Policy number " + pol_number + " : Issue age of life 1 is less than the
minimum age of the mortality table");
if (eq(projection_type,"Valn") && elapsed_months < 0)</pre>
       error_msg = "elapsed_months_<_0";</pre>
if ((elapsed_months > benefit_term) && (life->submodel != "TRAD"))
       error_msg = "elapsed_months_>_ben_term";
if ((sum_ins_curr <= 0.0001) && (life->submodel == "TERM"))
       error_msg = "Sum_Insured_<=_0";</pre>
```

return 0;

```
// Ensure frequencies given are factors of 12.
if (!eq(paid_up,"Y") || prem_term > elapsed_months){
       if (prem_freq == 0)
              throw NonFatalError("Premium frequency must be 1, 2, 3, 4, 6, or 12.");
       // Premium frequency must be a multiple of 12 whilst premiums are being paid
       if (12 % prem freq != 0)
               throw NonFatalError("Premium frequency must be 1, 2, 3, 4, 6, or 12.");
}
if (eq(ben_class,"adif") && eq(paid_up ,"N") && (saving_perc < alloc_rate[0]))</pre>
       error_msg = "saving_perc_too_low";
if ((life->prem freq == 0 || eq(life->paid up, "Y")) && (life->promil >0.3) && !eq(life-
>ben class,"ltc") && (life->submodel == "TERM"))
       life->error_msg = "paid_up";
// close function
6.1.1.3.3 Temporary Tables
6.1.1.3.3.1
                 charge_amount_tt
if (r <= commence_period_w || r > maturity_period_w || riders_count_w == 0 || tarif_rider[c]==0)
       return 0.;
// use discount_factor to reduce premium if rider is "out" of profil to offset premium charges on
the rider premium
double discount_factor = 1.0;
if (sm_riders[c]->prm_in_ppn<=0.5) // rider premium is "out"</pre>
       discount_factor = accum->allocation_rate(r);
if (prem_lookup_freq_w[c]==0)//level premium rider
       return (sm riders[c]->prem cover/12.) * benefits curr rider[c] * discount factor;
if (elapsed months + r <= xint(discount period rider[c]))</pre>
       discount_factor = discount_factor * (1. - discount_perc_rider[c]/100.);
 // for other products claim rate is an annual rate applied to the sum insured
return sum_insured_rider_tt(r, c)
       * charge_rate_tt(pol_year(r), c) / 12.
       * benefits_curr_rider[c]
       * discount_factor;
6.1.1.3.3.2
                 charge_rate_tt
// *** may need to adjust charge rate to monthly depending on frequency in table)
// *** problem if r=t because of negative periods
// r = policy year , starting from 1 to term
if (r \le 0 \mid | r > xint(benefit_term/12.))
       return 0;
if (tarif_rider[c]==0 || prem_lookup_freq_w[c]==0)
```

```
int age_adj = xint(age_at_issue)+r-1;
// Assume all lives die at omega age
if (age_adj >= omega_age_w)
       return 1.0;
// ************** Calculate charge rate ******************
int premium_year=1;
if (xint(fmod(r,prem_lookup_freq_w[c])) == 0) // *** r=t?
       premium_year = prem_lookup_freq_w[c];
else
       return charge_rate_tt(r-1,c);
xstring row = prem_code_rider;
row = row(c*22,22);
row = row.strip();
charge_rate_tt_row=row;
charge_rate_tt_col=xstring(age_adj);
double rate_c = prem_rates_charge_tt;
rate_c = (rate_c / si_unit_w[c]) * (1.+charge_addition_perc[c]/100.) *
prem_rate_multiplier_rider[c] + charge_addition_absolute[c];
return rate_c;
6.1.1.3.3.3
                 claim_amount_tt
// *** problem if r=t because of negative periods
if (r <= commence_period_w || r > maturity_period_w)
       return 0.;
if (tarif_rider[c]==0)
       return 0;
return sum_insured_rider_tt(r, c) * claim_rate_tt(pol_year(r),c)
                      * benefits_curr_rider[c];
6.1.1.3.3.4
                 claim_cost_tt
// *** may need to adjust charge rate to monthly depending on frequency in table)
// *** problem if r=t because of negative periods
// r = policy year , starting from 1 to term
if (r \le 0 \mid \mid r > xint(benefit_term/12.))
       return 1.;
if (tarif_rider[c]==0)
       return 1.;
// for fib products add claims costs to claim rate
if (rider_type_w[c] == 3 \& risk_type_w[c] == 1){ //FIB benefit uses claims cost tables with
assumed maturity age of 65
       row = claims_cost_key_rider(c*22,22);
       row = row.strip();
       age_adj = min(max(18,xint(age_at_issue)+r-1),65);
       return claim_cost_factors_tbl;
```

```
}
// for other products claim rate is an annual rate applied to the sum insured
return 1.;
6.1.1.3.3.5
                 claims_mult_tt
// r = policy year , starting from 1 to term
rider_tarif_row_key = xstring(tarif_rider[c]);
prod_code_rider = rider_tarif_tbl;
double temp =clms_mult_tt;
//if column (year) not found
if(temp == -99999.)
       return claims_mult_tt(r-1,c);
return temp;
6.1.1.3.3.6
                 decrement_tt
// *** problem if r=t because of negative periods
if (r <= commence_period_w || r > maturity_period_w)
       return 0.;
if (tarif_rider[c]==0)
       return 0;
// for death riders (risk type=1) the inforce is reduced by normal death rates in the main model
if (risk type w[c]==1)
       return 0.;
// if a previous rider has the same type of risk/decrement, then should not double-decrement:
for (int i=0; i < c; i++) {
       if (risk_type_w[i]==risk_type_w[c])
              return 0.;
}
int age_temp = age_adj;
col = xstring(risk_type_w[c]) + "_" + sex + smoker_stat;
age_adj = age_temp; // repeat lookup before table call
double rate_c = claim_rates_tbl;
rate_c = rate_c * (1.+charge_addition_perc[c]/100.);
rate_c = rate_c + charge_addition_absolute[c];
rate_c = rate_c/12.0; // convert to monthly
return rate c;
6.1.1.3.3.7
                 prem_rates_extra_tt
// rows (r, 0 to 100) are the current age
// columns (c, 0 to 3) are for the sex smoker combinations MN, MS, FN, FS
// ********** Return charge rate ****************
double rate = 0.0;
prod code adif extra prem = prod code adif extra prem temp;
prem rate row = r;
prem_rate_col = sex+smoker_stat;
rate = prem_rates_extra_prm;
```

```
//if no error
if(rate != -99999. && rate != 99999.)
       return rate * (1.+health_occ_perc/100.) /1000.;
//if row (age) not found
if(rate == -99999.)
       return 0.0;
//if assumption set not found
if(rate == 99999.)
       throw NonFatalError("Error looking up .... "+ xstring(r) + ", "+sex+smoker_stat+ ", in
prem_rates_extra_tbl");
 return 0.0;
6.1.1.3.3.8
                 sum_ins_basic_tt
// rows (r, 0 to 100) are the current age
// columns (c, 0 to 3) are for the sex smoker combinations MN, MS, FN, FS
if(submodel == "ANN")
       return 0.0;
double suminsbas=0.0;
suminsbas_row= r;
suminsbas_col=sex+smoker_stat;
       suminsbas = suminisba_tbl;
       //if no error
       if(suminsbas!= 99999. && suminsbas!= -99999.)
         return suminsbas / (1.+(health_occ_perc/350.));
       //if row (age) not found
       if(suminsbas == -99999.)
             return 0.;
       //if column (ses, smoke) not found
       if(suminsbas == 99999.)
                throw NonFatalError("Error looking up .. age: "+ xstring(r) + ", for column:"+sex+
smoker_stat+ " in suminisba_tbl.");
return 0.0;
6.1.1.3.3.9
                 surr_charge_tt
// r row = policy duration in months
// c = unit type, 0=accum, 1=saving
xstring temp;
double surchg=0.0;
if (submodel == "ANN")
       return 0.0;
       if (c==0)
              temp = "accum_" + surr_charge_set_temp;
       else
              temp = "saving_" + surr_charge_set_temp;
       if (surr_chg_set == "default")
```

```
temp = "saving_private_zero";
       if (r==0)
              return 0.0;
       col_char = temp;
       surchg = surr_chg_tbl;
       if (surchg == -9999) // row (month) not found
              return surr_charge_tt(r-1,c);
       if (surchg == -999999) // assumption set not found
              throw NonFatalError("Error looking up "+temp + " in surr_chg table in fixed tables
file.");
       return surchg; //no error
6.1.1.3.3.10
                claim_rate_tt
// *** may need to adjust charge rate to monthly depending on frequency in table)
// *** problem if r=t because of negative periods
// r = policy year , starting from 1 to term
if (r \leftarrow 0 \mid | r > xint(benefit_term/12.))
       return 0;
if (tarif_rider[c]==0)
       return 0;
// Assume rates in mort table are for age last birthday
int age_temp = xint(age_at_issue)+r-1;
// Assume all lives die at omega age *** maybe change this???
if (age_temp >= omega_age_w)
       return 1.0;
double rate_c=0.0;
if (risk_type_w[c] == 0)
       return 0;
// for death covers use normal mortality, converted to annual rate
if (risk_type_w[c] == 1){
       rate_c = death_rate(r*12-elapsed_months) * 12.;
else { //other cover, lookup from profil decrement rate table
       // for other products claim rates are from claim_rates_tbl by risk-type
       col = xstring(risk_type_w[c]) + "_" + sex + smoker_stat;
       age_adj = age_temp;
       rate_c = claim_rates_tbl;
       rate_c = rate_c * (1.+charge_addition_perc[c]/100.) + charge_addition_absolute[c];
       if (margin_add=="Y")
              rate_c = rate_c * (1+margin_claims/100);
       rate_c = rate_c * claims_mult_tt(r,c);
}
// claim rate is an annual rate, so convert to monthly
return rate_c / 12.;
```

6.1.1.3.3.11 sum_insured_rider_tt

```
// r = t, c=rider no.
if (r < commence period w || r > maturity period w) // *** r=t?
       return 0.0;
if (tarif_rider[c]==0)
       return 0;
if (r == 0)
       return sum_ins_curr_rider[c];
//Set increase perc on pol ann
double si_inc_rid = 1.0;
if ((xint(pol_month(r)) == 1) \&\& (r > 0))
       si_inc_rid = 1 + sum_ins_incr_rider[c] / 100.;
//Calc Accumulated increase perc
double si_inc_rid_acc= 1.0;
if (sum_ins_incr_rider[c] > 0.0)
       si inc rid acc = pow(1 + sum ins incr rider[c] / 100., int(r/12));
double si surv rid = 1.0;
if (lapse_rider_profil_dth_array[c] > 0.0)
       si_surv_rid = 1 - lapse_rider_profil_dth_array[c];
double si_surv_rid_acc = 1.0;
if (lapse_rider_profil_dth_array[c] > 0.0)
       si_surv_rid_acc = pow(1 - lapse_rider_profil_dth_array[c],r);
if (rider_type_w[c] == 1) { // sum at risk decreasing with saving acc.
       // paid up covers do not buy extra insurance
       double savings = sm_accum->units_b_bef(r) + sm_accum->alloc_units(r)
                      + sm_saving->units_b_bef(r) + sm_saving->alloc_units(r) ;
       // to get savings per benefit & before lapses
       if (surv_act_prm(r-1)<0.000000001 || benefits_curr == 0)
              return 0.0;
       else {
              savings = savings/surv act prm(r-1)/benefits curr;
              return max(0.0 , sum_insured_rider_tt(0,c)*si_inc_rid_acc - savings)*si_surv_rid_acc;
// *** r=t?
       }
if (rider_type_w[c]==3 && claim_cost_tt(pol_year(0),c) != 0 ) // for the FIB benefit the cc factor
is in the claims cost table with maturity age =65
       return sum_insured_rider_tt(0,c)*si_inc_rid_acc *si_surv_rid_acc/
claim_cost_tt(pol_year(0),c) * claim_cost_tt(pol_year(r),c) ;
// not fixed sum-insured and does not need extra reduction to inforce of rider - fixed sum at risk
return sum_insured_rider_tt(r-1,c) * si_inc_rid *si_surv_rid;
```

6.1.1.3.4 Scalars

6.1.1.3.4.1 fund_type

```
if(par_npar == 0)
    return "N";
```

```
return "P";
6.1.1.3.4.2
                 min_retirement_age
return sm_annuity[0]->takeup_age;
6.1.1.3.4.3
                 mult_age_ind
if(submodel == "ANN" || submodel == "TERM" || (submodel == "TRAD" && !eq(ben_class, "gimla")))
       return 0;
if(!inlist(policy_type,"private,selfemp") || res_kitzba >0.)
       return 1;
return 0;
6.1.1.3.4.4
                 use_uw_date
if (inlist(life->decrem_rates_tbl, "adi_08,adb_100"))
       return "Y";
else
       return "N";
6.1.1.3.4.5
                 profit_net_vif_pv12
return profit_net_vif_pv(12);
6.1.1.3.4.6
                 res_prop_kitzba
if (eq(submodel, "TERM"))
       return 0.0;
if (resinforce >0. && eq(submodel, "TRAD"))
       return min(res_kitzba / resinforce, 1.0);
if (resinforce >0. && eq(submodel, "ANN"))
       return 1.0;
if (resinforce >0. && eq(submodel, "UNIT")) {
       if (unit_value_accum == 0.)
              return 0.;
       return min(res_kitzba / unit_value_accum, 1.0);}
if (!eq(policy_type,"private"))
       return 1.0;
return 0.0;
6.1.1.3.4.7
                 res_prop_kitzba_newtag
if (eq(submodel,"TERM"))
       return 0.0;
if (res_prop_kitzba >0.){
       res_prop_key = "new_tag";
       double temp = res_prop_newtag_data;
```

```
if (temp == -9999.){ //Policy does not appear in TK file
               temp_col_fund=policy_type + "_prop_newtag";
               return max(min(fund_rates_code_tbl/100., 1.), 0);
       }
       else
               return max(min(temp, 1.), 0.);
}
return 0.0;
6.1.1.3.4.8
                 res_prop_kitzba_oldtag
if (eq(submodel,"TERM"))
       return 0.0;
if (res_prop_kitzba >0.){
       res_prop_key = "old_tag";
       double temp = res_prop_old_data;
       if (temp == -9999.){ //Policy does not appear in TK file
               temp_col_fund=policy_type + "_prop_oldtag";
               return max(min(fund_rates_code_tbl/100., 1.), 0);
       }
       else
               return max(min(temp, 1.), 0.);
}
return 0.0;
6.1.1.3.4.9
                 res prop kitzba piz
if (eq(submodel, "TERM"))
       return 0.0;
if (res_prop_kitzba >0.){
       res_prop_key = "piz";
       double temp = res_prop_piz_data;
       if (temp == -9999.) {
               temp_col_fund =policy_type + "_prop_newpiz";
               return max(min(fund_rates_code_tbl/100., 1.), 0);
       }
       else
               return max(min(temp, 1.), 0.);
}
return 0.0;
```

```
6.1.1.3.4.10
                 res_prop_kitzba_prat
if (eq(submodel, "TERM"))
       return 0.0;
if (res_prop_kitzba >0.){
       res_prop_key = "prat";
       double temp = res_prop_prat_data;
       if (temp == -9999.){
              temp_col_fund = policy_type + "_prop_prat";
              return max(min(fund_rates_code_tbl/100., 1.), 0);
       }
       else
              return max(min(temp, 1.), 0.);
}
return 0.0;
6.1.1.3.4.11
                 res_total_increase1
return reserve_increase(1)- reserve_re_increase(1);
6.1.1.3.4.12
                 resanndef_atmat
if(!inlist(submodel,"UNIT"))
       return 0;
if(annuitization_rate<=0.00001 || res_prop_kitzba<=0.0) // *** need way to distinguish between
policies with and without guarantees, and with and without kitzva option
       return 0.0;
return res_ann_deficiency(maturity_period_w-1);
                 reserve_opening_difference
6.1.1.3.4.13
double res_IF_fac = benefits_curr;
if (eq(projection_type, "Rollup"))
       return 0.0;
// For Klasi, Adif and Profil, use initial difference between calculated reserve and ResInforce
// Adjust for " * benefits curr" as lapsed policies will get SV (close to reserve) and for Hasne
if (inlist(submodel, "TRAD, ANN")) {
       return reserve basic(0) - resinforce * res IF fac;}
double multage = 0;
if (eq(submodel,"UNIT")) {
       multage = sm_accum->units_e(0) * bonus[prem_term]/100.;
       if(mult_age_ind == 1)
              multage = sm_annuity->reserve_bonus_units_e_0(1);
       return reserve_basic(0) + multage
                      - resinforce * res_IF_fac;
       }
```

```
// For Term adjustment depends on reserve type
// For Net Premium reserve, adjust for initial difference, taking into account NP_deficiency
reserve
// Do not adjust for "* benefits_curr" (unless Hasne or LTC) as no surr value for risk covers. If
policy lapses, reserve is released and should be included
// Adjust for "* benefits_curr" (Hasne or LTC) as surr value and so no reserve is released
if (eq(res_basis, "Net_Prem")) {
       if (!eq(company, "hasne") && !eq(ben_class, "ltc"))
               res_IF_fac = 1.0;
       return reserve_basic(0) + res_np_deficiency(0) - resinforce * res_IF_fac;
}
// For dd, LBNR releases some reserve.
if (eq(ben_class,"dd"))
       return reserve_basic(0) * min(benefits_curr - 1.0,0);
// For Res as ppn Prem, no adjustment is needed (Risk ResInforce is IBNR)
return 0.0;
6.1.1.3.4.14
                 premium_disc_pv_start
if (commence_period_w>-12 && commence_period_w<=0) {</pre>
       return premium_disc_pv(commence_period_w);
}
return 0.0;
6.1.1.3.4.15
                 premium_nb_sp
// Calculate single premium at eom t=0, required to be paid
// such that the calculated account balance = current actual account balance
if (!eq(projection_type, "Rollup"))
       return 0.0;
if(!eq(submodel, "UNIT"))
       return 0.0;
return sm accum->premium nb sp +
       sm acc pup->premium nb sp+
       sm_saving->premium_nb_sp+
       sm_saving_pup->premium_nb_sp;
6.1.1.3.4.16
                 premium_pv_st_date
if (commence period w>=-12 && commence period w<0) {
       return premium pv(commence period w);
}
return 0.0;
6.1.1.3.4.17
                 claims_re_yr1
double temp =0.0;
int i = 0;
for (i=1; i <= 12; i++) {
       temp = temp + claims_re(i);
return temp;
```

6.1.1.3.4.18 claims_total_yr1 double temp =0.0; int i = 0; for (i=1; i <= 12; i++) { temp = temp + claims_total(i); } return temp; 6.1.1.3.4.19 comm_re_prof_yr1 double temp =0.0; int i = 0; for (i=1; i <= 12; i++) { temp = temp + comm_re_prof(i); return temp; 6.1.1.3.4.20 comm_re_yr1 double temp =0.0; int i = 0; for (i=1; i <= 12; i++) { temp = temp + comm_re(i); } return temp; 6.1.1.3.4.21 comm_total_yr1 double temp =0.0; int i = 0; for (i=1; i <= 12; i++) { temp = temp + comm_total(i); return temp; 6.1.1.3.4.22 expense_total_yr1 double temp =0.0; int i = 0; for (i=1; i <= 12; i++) { temp = temp + exp_total(i); } return temp; prem_discount_py1 6.1.1.3.4.23 double temp = 0.0; int i=0;

```
for (i=elapsed_months+1; i <= elapsed_months+12; i++)</pre>
       temp = temp + premium_disc(i);
return temp;
6.1.1.3.4.24
                 prem_discount_py2
double temp = 0.0;
int i=0;
for (i=elapsed_months+13; i <= elapsed_months+24; i++)</pre>
       temp = temp + premium_disc(i);
return temp;
6.1.1.3.4.25
                 prem_discount_py3
double temp = 0.0;
int i=0;
for (i=elapsed_months+25; i <= elapsed_months+36; i++)</pre>
       temp = temp + premium_disc(i);
return temp;
6.1.1.3.4.26
                 premium_gross_yr1
double temp =0.0;
int i = 0;
for (i=1; i <= 12; i++) {
       temp = temp + premium_gross(i);
return temp;
6.1.1.3.4.27
                 premium_re_yr1
double temp =0.0;
int i = 0;
for (i=1; i <= 12; i++) {
       temp = temp + premium_re(i);
       }
return temp;
6.1.1.3.4.28
                 profit_net_vif_yr0
double temp =0.0;
int i = 0;
for (i=-11; i <= 0; i++) {
       temp = temp + profit_net_vif(i);
              //close for loop
return temp;
```

6.1.1.3.4.29

```
comm_nihul_pv_start
if (commence period w>=-12 && commence period w<=0)
       return comm nihul pv(commence period w);
return 0.0;
6.1.1.3.4.30
                 comm_prizes_new
if (commence period w>=-12 && commence period w<=0)
       return comm prize(commence period w+1);
return 0.0;
6.1.1.3.4.31
                 comm_pv_start
if (commence_period_w>=-12 && commence_period_w<=0)</pre>
       return comm pv(commence period w);
return 0.0;
6.1.1.3.4.32
                 exp_inflation_mthly
return monthly_rate(infl_rate_expenses);
6.1.1.3.4.33
                 units_to_ann
if (submodel == "TRAD" || submodel == "TERM")
       return 0;
if(mult_age_ind == 1)
       return sm_annuity->initial_annuity_purchase;
return sm_annuity[ann_index_map[takeup_age]]->initial_annuity_purchase;
6.1.1.3.4.34
                 claims_pv_st
if (commence_period_w >=-12 && commence_period_w<=0)</pre>
       return claims_pv(commence_period_w);
return 0.0;
6.1.1.3.4.35
                 comm_clawback_pv_start
if (commence_period_w>=-12 && commence_period_w<=0)</pre>
       return comm_clawback_pv(commence_period_w);
return 0.0;
6.1.1.3.4.36
                 charges_premium_pv_st
if (commence_period_w >=-12 && commence_period_w<=0)</pre>
       return charges_premium_pv(commence_period_w);
return 0.0;
```

```
6.1.1.3.4.37
                 comm_hekef_new
if (commence period w>=-12 && commence period w<=0)
       return comm hekef(commence period w+1);
return 0.0;
6.1.1.3.4.38
                 comm_init_new
if (commence period w>=-12 && commence period w<=0)
       return comm prize(commence period w+1)+comm hekef(commence period w+1);
return 0.0;
6.1.1.3.4.39
                 comm_reg_pv_st
if (commence_period_w >=-12 && commence_period_w<=0)</pre>
       return comm reg pv(commence period w);
return 0.0;
6.1.1.3.4.40
                 comm_reg_riders_out_pv_st
if (commence period w >=-12 && commence period w<=0)
       return comm_reg_riders_out_pv(commence_period_w);
return 0.0;
6.1.1.3.4.41
                 comm_ren_pv_st
if (commence period w >=-12 && commence period w<=0)
       return comm_renewal_pv(commence_period_w);
return 0.0;
6.1.1.3.4.42
                 comm_res_pv_st
if (commence period w >=-12 && commence period w<=0)
       return comm_reserve_pv(commence_period_w);
return 0.0;
6.1.1.3.4.43
                 management fee pv st
if (commence_period_w >=-12 && commence_period_w<=0)</pre>
       return management_fee_pv(commence_period_w);
return 0.0;
6.1.1.3.4.44
                 proj task loop num scalar
return proj_task_loop_num;
6.1.1.3.4.45
                 duration
if (duration_denominator(0) > 0)
       return duration_numerator(0) / duration_denominator(0);
return 0.0;
```

```
6.1.1.3.4.46
                 expense_init_new
if (commence period w >=-12 && commence period w<= 0)
       return expense_initial_fix(commence_period_w + 1)
                      + expense_initial_perc(commence_period_w + 1);
return 0.0;
6.1.1.3.4.47
                 expense_pv_start
if (commence period w>=-12 && commence period w<=0)
       return expense_pv(commence_period_w);
return 0.0;
6.1.1.3.4.48
                 policies_new
if (commence period w>-12 && commence period w<=0)
       return policies_b(commence_period_w+1);
return 0.0;
6.1.1.3.4.49
                 premium_new
if(submodel == "ANN")
       return 0.0;
if (commence_period_w>=-12 && commence_period_w<0) {</pre>
       if (paid_up=="Y")
               return premium_gross(commence_period_w+1);
       return premium gross(commence period w+1)*prem freq;
}
return 0.0;
6.1.1.3.4.50
                 origidate
// to back into origidate of cover define origidt_mths
double origidt mths = valn year*12+valn month-elapsed months-elapsed months extra+1;
// dividing origidt_mths by 12 gives year and number of months as fraction
double result = int(origidt_mths/12)*100+(origidt_mths-int(origidt_mths/12)*12);
return result;
6.1.1.3.4.51
                 yob
//return valn_year - age_last(1) +1;
return cal_year(1) - age_last(1);
6.1.1.3.4.52
                 prem_alloc_pv
if (!eq(submodel, "UNIT"))
       return 0.0;
if (premium_pv(0) <= 0.0)
       return 0.0;
int i=1;
double alloc_pv = 0.0;
```

```
if (eq(ben_class,"profil") && paid_up=="Y")
               return premium_gross(commence_period_w+1);
// Calculate PV of premium allocated to savings
for (i=maturity_period_w; i >0; i--) {
       int proj_yr = xint(proj_year(i+1));
       if(eq(projection_type_int, "Rollup"))
               proj_yr = xint(proj_year_rollup(i+1));
       alloc_pv = alloc_pv * v_month_t[proj_yr]
              + alloc_units(i)
               - cover_charge(i);
}
return
           alloc_pv;
6.1.1.3.4.53
                 premium_1
           premium(1) + pol_fee(1);
return
6.1.1.3.4.54
                 reins_simple_rider_row
xstring reins_col = prod_code_rider+"_"+company;
return reins col;
6.1.1.3.4.55
                 reins_simple_row
xstring reins_col = prod_code+"_"+company;
return reins_col;
6.1.1.3.4.56
                 ktest
xstring temp;
if ((fund_group == "P1" || atoi(fund_yesodi) <= 24)</pre>
               && inlist(ben_class, "adif,gimla")
               && prod_code != "a80-01hon"
               && prod_code != "a80-01kitz")
       temp = "Y";
else
       temp = "N";
return temp;
6.1.1.3.4.57
                 portfolio
return group;
6.1.1.3.4.58
                 prod_specs_max_perc
return "rider_max_perc_"+policy_type;
6.1.1.3.4.59
                 cashflow_re_pv_st
if (commence_period_w >=-12 && commence_period_w<=0)</pre>
       return cashflow_re_pv(commence_period_w);
```

```
return 0.0;
6.1.1.3.4.60
                 reins_comm1
return comm_re(1) + comm_re_prof(1);
6.1.1.3.4.61
                 reinsur_clm_cost
xstring row_reinsur = prod_code+"_"+company;
return row_reinsur;
6.1.1.3.4.62
                 reinsur_kodtavla
xstring reinsur_col ="KOD_TAVLA_"+sex+smoker_stat;
return reinsur_col;
6.1.1.3.4.63
                 reserve_rein_opening
if (submodel != "TERM")
       return 0.0;
return term->reserve_re(0);
6.1.1.3.4.64
                 reserve_manual
return resinforce_input * res_adj_factor;
6.1.1.3.4.65
                 datetime_stamp
return to_string(time(0));
6.1.1.3.4.66
                 sex_smoker_code
int temp = 0;
if (sex=="F")
       temp = 1;
if (smoker_stat=="S")
       return temp * 2 + 1;
return temp * 2;
6.1.1.3.4.67
                 stamp_output
//Returns output file name
//xstring s = output_location();
//int extension = s.find("~life.csv");
return output_location();
```

6.1.1.3.4.68 value_date

```
//int y = valn year - xint(valn year/100.)*100;
xstring vyear = xstring(valn_year);
xstring vmonth = xstring (valn_month);
if (vmonth.length() == 1)
       vmonth = "0"+vmonth;
return vyear + vmonth + "01";
6.1.1.4 sub_2_cflow
6.1.1.4.1 Columns
6.1.1.4.1.1
                 annuity_if_b_bef_ret
if (t <= life->commence_period_w || t > life->mat_period_original)
       return 0.0;
if(life->submodel != "TRAD" || life->paid up=="Y" || ann factor pol == 0)
       return 0.0;
return (sum_insured(t-1) * life->surv_act_bal_bef_ret(t-1)) / ann_factor_pol * 100.;
6.1.1.4.1.2
                 bonus
if (t \leftarrow 0 || (life->par_nonpar=="N") || t > life->mat_period_original ||eq(life->paid_up,"G"))
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
if (life->par_nonpar=="N")//not participating
       return 0;
return bonus_rate(t)
              * ( res_to_bonus(t) + bonus_b(t) )
              + bonus_b(t) * int_rate_res_mthly;
6.1.1.4.1.3
                 bonus b
if ((life->par_nonpar=="N") || t > life->mat_period_original || t <= life->commence_period_w
||eq(life->paid_up, "G") || t < 0)
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
if (t == 0){
       if(life->paid_up == "Y")
              return 0.0;
       return life->bonus_inforce;
}
```

```
return bonus_if(t-1)
              * life->surv_per_ret(t-1) //Probability not retired
              * life->surv_per_act_bal_bef_ret(t); //Probability remains premium-paying
6.1.1.4.1.4
                 bonus_b_pup
if ((life->par_nonpar=="N") || t > life->mat_period_original || t <= life->commence_period_w
||eq(life->paid_up, "G") || t < 0)
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
if (t == 0){
       if(life->paid_up == "Y")
              return life->bonus inforce;
       return 0.0;
}
return bonus_if_pup(t-1)
              * life->surv_per_ret(t-1)
              *(1.- death_rate(t))
              * (1. - life->lapse_rate_pup_bal(t))
              + bonus_if(t-1)
              * life->surv_per_ret(t-1)
              *life->pup_rate_bal(t-1)
              *(1.- death_rate(t))
              * (1. - life->lapse_rate_pup_bal(t));
6.1.1.4.1.5
                 bonus if
if ((life->par nonpar=="N") || t > life->mat period original || t <= life->commence period w
||eq(life->paid up, "G"))
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
if (t < 0)
       return 0.0;
if (t == 0){
       if(life->paid_up == "Y")
              return 0.0;
       return life->bonus_inforce;
}
return bonus_if(t-1) * life->surv_per_ret(t-1) * life->surv_per_act_bal_bef_ret(t) + bonus(t);
6.1.1.4.1.6
                 bonus if pup
if ((life->par_nonpar=="N") || t > life->mat_period_original || t <= life->commence_period_w
||eq(life->paid_up, "G"))
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
```

```
if (t <0 )
       return 0.0;
if (t == 0){
       if(life->paid_up == "Y")
              return life->bonus inforce;
       return 0.0;
}
return bonus_if_pup(t-1)*(1.- death_rate(t))* (1. - life->lapse_rate_pup_bal(t))*life-
>surv_per_ret(t-1) + bonus_pup(t);
6.1.1.4.1.7
                 bonus pup
if (t <= 0 || (life->par_nonpar=="N") || t > life->mat_period_original ||eq(life->paid_up,"G"))
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
return bonus_rate_pup(t)
               * ( res_to_bonus_pup(t) + bonus_b_pup(t) )
              + bonus_b_pup(t) * int_rate_res_mthly;
6.1.1.4.1.8
                 bonus_rate
if ((life->par_nonpar=="N") || t > life->mat_period_original || t <= life->commence_period_w
||eq(life->paid_up, "G") || t <= 0)
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
if((res_to_bonus(t) + bonus_b(t)) == 0)
       return 0.0;
return (int cred(t)
               - mgt_fee_fix(t)
               - mgt_fee_var(t)
               - int_res_deduct(t)
               )
               (res_to_bonus(t) + bonus_b(t));
6.1.1.4.1.9
                 bonus_rate_mat
if (t > life->maturity_period_w || (life->par_nonpar=="N") || t <= life->mat_period_original
||eq(life->paid_up, "G") || !eq(life->ben_class, "GIMLA"))
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
if ((surr_value(t-1) + surr_value_pup(t-1)) == 0.)
       return 0.0;
double temp = 0.0;
```

```
if (t == life->mat_period_original + 1 && ann_factor_pol != 0 && puv_factor(t-1) != 0){
       temp = (sv_factor(t-1) * annuity_if_b(t-1)/100. * life->surv_per_act_bal_bef_ret(t-1) +
bonus_if(t-1))
                       * life->surv_act_post_ret(t)
                       + ((sum_insured_if_b_pup(t-1)
                             *(100./ann_factor_pol)
                             *sv_factor(t-1)/puv_factor(t-1)
                             *(1-death_rate(t-1))
                             + bonus if pup(t-1)))
                             * life->surv_pup_post_ret(t);
}
else
       temp = surr_value(t-1) * life->surv_act_post_ret(t)
                      + surr value pup(t-1) * life->surv pup post ret(t);
if (temp == 0.)
       return 0.0;
return (int_cred_mat(t)
              - mgt_fee_fix_mat(t)
              - mgt_fee_var_mat(t)
              )
              / temp;
6.1.1.4.1.10
                 bonus_rate_mthly
if (t < life->commence_period_w || t > life->maturity_period_w)
       return NO_AVG;
if(life->submodel != "TRAD")
       return 0.0;
int proj_yr = xint(life->proj_year(t));
int proj_yr_up = xint(life->proj_year(t+1));
int proj_yr_dn = xint(life->proj_year(t-1));
if(eq(life->projection_type_int, "Rollup")){
       proj yr = xint(life->proj year rollup(t));
       proj_yr_up = xint(life->proj_year_rollup(t+1));
       proj_yr_dn = xint(life->proj_year_rollup(t-1));
}
if (t>0 && (proj_yr ==proj_yr_dn))
       return bonus_rate_mthly(t-1);
// calculate bonus rate
double rate = (1. + life->inv_rate_mth_t[proj_yr]) *(1.-life->mgt_fee_fixed/1200.)-1;
rate = rate * (1.-life->mgt_fee_variable/100.);
return rate - int_rate_res_mthly;
6.1.1.4.1.11
                 bonus_rate_pup
if ((life->par_nonpar=="N") || t > life->mat_period_original || t <= life->commence_period_w
||eq(life->paid_up, "G") || t <= 0)
       return 0.0;
```

```
if(life->submodel != "TRAD")
       return 0.0;
if (life->paid_up == "N" && t == 1)
       return bonus_rate(t);
if((res_to_bonus_pup(t) + bonus_b_pup(t)) == 0)
       return 0.0;
return (int_cred_pup(t)
               - mgt_fee_fix_pup(t)
               - mgt_fee_var_pup(t)
               int_res_deduct_pup(t)
               (res_to_bonus_pup(t) + bonus_b_pup(t));
6.1.1.4.1.12
                 bor_acc
if (t < 0 || (life->par_nonpar=="N") || t > life->mat_period_original ||eq(life->paid_up,"G") ||
life->mgt_fee_variable == 0)
       return 0.;
if(life->submodel != "TRAD")
       return 0.0;
if (life->paid up == "Y")
       return 0.0;
if(t==0) {
       if (life->mgt_deficit_perc < 0.)</pre>
               return (life->bonus_inforce + life->resinforce)
                              * life->mgt_deficit_perc
                              *(-1.)
                              * life->mgt_fee_variable/100.;
       return 0.0;
}
if (har_acc(t) > 0)
       return 0.0;//No bor if there is har
double bor = 0.0;
bor = bor_acc(t-1)
               * (1. - death_rate(t-1))
               * (1. - life->lapse_total_bal(t-1))
               * (1. - life->prem_termination_prop(t-1));
if (net_interest_rate(t) < 0.0){</pre>
       double new\_bor = (-1)
                                             *(int_cred(t) - mgt_fee_fix(t))
                                             * life->mgt_fee_variable/100.;
       if (har_return(t) > 0)
```

```
new_bor = max(new_bor - har_return(t), 0);
       bor = bor
               + new_bor; //Addition to bor
}
if (net_interest_rate(t) > 0.0)
       bor = bor + bor_return(t); //Bor returned
return max(bor, 0.0);
6.1.1.4.1.13
                 bor_acc_mat
if (t < 0 || (life->par_nonpar=="N") || t > life->maturity_period_w ||eq(life->paid_up,"G") ||
life->mgt_fee_variable == 0 || t <= life->mat_period_original || !eq(life->ben_class, "gimla"))
       return 0.;
if(life->submodel != "TRAD")
       return 0.0;
if(t==0) {
       if (life->mgt_deficit_perc < 0.)</pre>
               return (life->bonus_inforce + life->resinforce)
                              * life->mgt_deficit_perc
                             *(-1.)
                             * life->mgt_fee_variable/100.;
       return 0.0;
}
if (har_acc_mat(t) > 0)
       return 0.0;
double bor = 0.0;
if (t == life->mat_period_original + 1){
       bor = bor_acc(t-1)
                      * (1. - death_rate(t-1))
                      * (1. - life->lapse_rate_act_bal(t-1))
                      * (1. - life->retirement_prop(t-1))
                      + bor_acc_pup(t-1)
                             * (1. - death_rate(t-1))
                             * (1. - life->lapse_total_bal(t-1))
                             * (1. - life->prem_termination_prop(t-1));
}
else
       bor = bor_acc_mat(t-1)
                      * (1. - death_rate(t-1))
                      * (1. - life->retirement_prop(t-1));
```

```
if (net_interest_rate(t) < 0.0){</pre>
       double new_bor = (-1)
                                            *(int_cred_mat(t) - mgt_fee_fix_mat(t))
                                            * life->mgt_fee_variable/100.;
       if (har_return_mat(t) > 0)
               new_bor = max(new_bor - har_return_mat(t), 0);
       bor = bor
              + new_bor; //Addition to bor
}
if (net_interest_rate(t) > 0.0)
       bor = bor + bor_return_mat(t); //Bor returned
return max(bor, 0.0);
6.1.1.4.1.14
                 bor_acc_pup
if (t < 0 || (life->par_nonpar=="N") || t > life->mat_period_original ||eq(life->paid_up,"G") ||
life->mgt_fee_variable == 0)
       return 0.;
if(life->submodel != "TRAD")
       return 0.0;
if(t==0) {
       if (life->mgt_deficit_perc < 0. && life->paid_up == "Y")
               return (life->bonus_inforce + life->resinforce)
                              * life->mgt_deficit_perc
                             *(-1.)
                              * life->mgt_fee_variable/100.;
       return 0.0;
}
if (har_acc_pup(t) > 0)
       return 0.0;//No bor if there is har
double bor = 0.0;
bor = bor_acc_pup(t-1)
               * (1. - death_rate(t-1))
               * (1. - life->lapse_rate_pup_bal(t-1))
               * (1. - life->retirement_prop(t-1));
bor = bor + bor_acc(t-1)
                      * life->surv_per_ret(t-1)
                      * life->pup_rate_bal_dep(t-1);//Passed from active
```

```
if (net_interest_rate(t) < 0.0){</pre>
       double new_bor = (-1)
                                            *(int_cred_pup(t) - mgt_fee_fix_pup(t))
                                            * life->mgt_fee_variable/100.;
       if (har_return_pup(t) > 0)
               new_bor = max(new_bor - har_return_pup(t), 0);
       bor = bor
               + new_bor; //Addition to bor
}
if (net_interest_rate(t) > 0.0)
       bor = bor + bor_return_pup(t); //Bor returned
return max(bor, 0.0);
6.1.1.4.1.15
                 bor_return
if ((life->par_nonpar=="N") || t > life->mat_period_original || t <= life->commence_period_w
||eq(life->paid_up, "G") || t <= 0)
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
if (life->paid_up == "Y")
       return 0.0;
double mgt_fee_pos = 0.0;
double temp = bor_acc(t-1);
if (net_interest_rate(t) < 0.0 \mid | bor_acc(t-1) == 0.0)
       return 0.0;
mgt_fee_pos = -mgt_fee_var_no_bor(t); //Management fees from current month available to repay bor
return max(mgt_fee_pos,
                       bor_acc(t-1)
                       * (-1.)
                       * (1. - death_rate(t-1))
                       * (1. - life->lapse_total_bal(t-1))
                       * (1. - life->prem_termination_prop(t-1))
                       ); //Cannot return more than outstanding bor
6.1.1.4.1.16
                 bor_return_mat
if (t < 0 || (life->par_nonpar=="N") || t > life->maturity_period_w ||eq(life->paid_up, "G") ||
life->mgt_fee_variable == 0 || t <= life->mat_period_original || !eq(life->ben_class, "gimla"))
       return 0.;
```

```
if(life->submodel != "TRAD")
       return 0.0;
double mgt_fee_pos = 0.0;
double temp = bor_acc_mat(t-1);
if (\text{net\_interest\_rate(t)} < 0.0 \mid | (\text{bor\_acc\_mat(t-1}) == 0.0 \&\& t != life->mat\_period\_original + 1))
       return 0.0;
       mgt_fee_pos = -mgt_fee_var_no_bor_mat(t);
//mgt_fee_pos = (int_cred_mat(t) - mgt_fee_fix_mat(t))
                              * life->mgt fee variable/100.
                              ^{st} (-1.); //Management fees from current month available to repay bor
//
if(t == life->mat period original + 1){
if ((bor_acc(t-1) + bor_acc_pup(t-1)) == 0.)
       return 0.0;
return max(mgt_fee_pos,
                       (bor_acc(t-1)
                       * (1. - death_rate(t-1))
                       * (1. - life->lapse_rate_act_bal(t-1))
                       * (1. - life->retirement_prop(t-1))
                       + bor_acc_pup(t-1)
                              * (1. - death_rate(t-1))
                              * (1. - life->lapse_total_bal(t-1))
                              * (1. - life->prem_termination_prop(t-1))
                              ) * (-1.)
                              );
}
return max(mgt_fee_pos,
                       bor_acc_mat(t-1)
                       * (1. - death_rate(t-1))
                       * (1. - life->retirement_prop(t-1))
                       * (-1.)
                       ); //Cannot return more than outstanding bor
6.1.1.4.1.17
                 bor_return_pup
if ((life->par_nonpar=="N") || t > life->mat_period_original || t <= life->commence_period_w
||eq(life->paid_up, "G") || t <= 0)
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
double mgt_fee_pos = 0.0;
double temp = bor_acc_pup(t-1);
if (net_interest_rate(t) < 0.0 \mid | (bor_acc(t-1) + bor_acc_pup(t-1)) == 0.0)
       return 0.0;
```

```
mgt_fee_pos = -mgt_fee_var_no_bor_pup(t); //Management fees from current month available to repay
double bor_for_ret = bor_acc_pup(t-1)
                                     * (1. - death_rate(t-1))
                                     * (1. - life->lapse_rate_pup_bal(t-1))
                                    * (1. - life->retirement_prop(t-1))
                                    + bor_acc(t-1)
                                            * life->surv_per_ret(t-1)
                                            * life->pup_rate_bal_dep(t-1);
return max(mgt_fee_pos,
                       bor_for_ret *(-1.)
                       ); //Cannot return more than outstanding bor
6.1.1.4.1.18
                 claims death
if(life->submodel != "TRAD")
       return 0.0;
return max(0,death_claims_si(t)+death_claims_bon(t));
6.1.1.4.1.19
                 claims_maturity
if (t <= life->commence_period_w || t > life->maturity_period_ann)
       return NO_AVG;
if(life->submodel != "TRAD")
       return 0.0;
return max(0,(maturities_si(t)+maturities_bon(t) + claims_ret(t)));
6.1.1.4.1.20
                 claims_surrender
if (t <= life->commence_period_w || t > life->mat_period_original ||eq(life->paid_up,"G"))
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
if (t == life->mat period original) {
       if (life->par_nonpar == "P")
              return max(0,max(bonus_if(t) +sum_insured_if_b(t),surr_value(t)) * life-
>lapse_rate_act_bal_dep(t)
                             + max(bonus_if_pup(t)+sum_insured_if_b_pup(t),surr_value_pup(t))*
life->lapse rate pup bal dep(t));
       return max(0,max(sum_insured_if_b(t),surr_value(t)) * life->lapse_rate_act_bal_dep(t)
                      +max(sum_insured_if_b_pup(t),surr_value_pup(t)) * life-
>lapse_rate_pup_bal_dep(t));
}
//surr val is the inforce item after the surrenders have occurred
if (life->surv_per_bal_bef_ret(t)>0.0)
       return max(0,life->lapse_rate_act_bal_dep(t) * surr_value(t)/life->surv_per_bal_bef_ret(t)
                 +life->lapse_rate_pup_bal(t) * surr_value_pup(t));
return 0.0;
```

6.1.1.4.1.21 death claims bon if (t <= life->commence period w || t > life->maturity period w || eq(life->paid up, "G")) return 0.0; if(life->submodel != "TRAD") return 0.0; if (life->par_nonpar=="N") return 0.0; return death_rate(t)* life->surv_per_ret(t-1) * (bonus_if(t-1)+bonus_if_pup(t-1)); 6.1.1.4.1.22 death_claims_si if (t <= life->commence_period_w || t > life->maturity_period_w ||eq(life->paid_up,"G")) return 0.0; if(life->submodel != "TRAD") return 0.0; double sv = surr_value(t) - bonus_if(t)+surr_value_pup(t) - bonus_if_pup(t); double ytron_perc=0.0; if(eq(life->ben_class,"Ytron")){ ytron perc = life->matan perc temp * life->age at issue; ytron perc = max(ytron perc,life->min ytron perc); ytron_perc = min(ytron_perc,100.); return death rate(t) * max((sum insured if b(t)+ sum insured if b pup(t))* ytron_perc/100.,sv); } double v mth res = 1/(1 + int rate res mthly);//monthly discount //on reserving basis if(eq(life->ben class, "GIMLA")){ if (eq(life->prod_code,"gml12") && ann_factor_pol != 0) // gimla bet minimum death benefit return death_rate(t) * max(sv, 120. * ((sum_insured_if_b(t)+sum_insured_if_b_pup(t))/ ann_factor_pol * 100.)); else { if(t <= life->gimla_db_period_w && ann_factor_pol != 0) return death_rate(t) * 75. * (sum_insured_if_b(t)+sum_insured_if_b_pup(t)) /ann_factor_pol*100.; else if(t <= life->mat_period_original) return death_rate(t) * max(sum_insured_if_b(t)+sum_insured_if_b_pup(t),sv) * pow(v_mth_res,life->mat_period_original - t); else return death rate(t) * sv; } } return death_rate(t) * max(sum_insured_if_b(t)+sum_insured_if_b_pup(t), sv); 6.1.1.4.1.23 har acc if ((life->par_nonpar=="N") || t > life->mat_period_original || t <= life->commence_period_w ||eq(life->paid_up, "G") || t < 0)

```
return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
if (life->paid_up == "Y")
       return 0.0;
if(t==0){
       if(life->cal_month(t) == 12. || life->mgt_deficit_perc < 0)</pre>
               return 0.0; //If year-end, no accumulation. If there is bor, no accumulation
       return (life->bonus_inforce + life->resinforce)
                      * life->mgt deficit perc
                      * life->mgt_fee_variable/100.;
}
double har = 0;
if(life->cal_month(t) > 1)
       har = har_acc(t-1)
                      * (1. - death_rate(t-1))
                      * (1. - life->lapse_total_bal(t-1))
                      * (1. - life->prem_termination_prop(t-1));
har = har + mgt_fee_var(t); // Works for both positive and negative
return max(har, 0);
6.1.1.4.1.24
                 har_acc_mat
if (t < 0 || (life->par_nonpar=="N") || t > life->maturity_period_w ||eq(life->paid_up,"G") ||
life->mgt_fee_variable == 0 || t <= life->mat_period_original || !eq(life->ben_class, "gimla"))
       return 0.;
if(life->submodel != "TRAD")
       return 0.0;
if(t==0){
       if(life->cal month(t) == 12. || life->mgt deficit perc < 0)</pre>
               return 0.0; //If year-end, no accumulation. If there is bor, no accumulation
       return (life->bonus_inforce + life->resinforce)
                      * life->mgt_deficit_perc
                      * life->mgt_fee_variable/100.;
}
double har = 0;
if(life->cal_month(t) > 1){
       if (t == life->mat_period_original + 1)
               har = har acc(t-1)
```

```
* (1. - death_rate(t-1))
                           * (1. - life->lapse_rate_act_bal(t-1))
                           * (1. - life->retirement_prop(t-1))
                           + har_acc_pup(t-1)
                           * (1. - death_rate(t-1))
                           * (1. - life->lapse_total_bal(t-1))
                           * (1. - life->prem_termination_prop(t-1));
       else
             har = har_acc_mat(t-1)
                    * (1. - death_rate(t-1))
                    * (1. - life->retirement_prop(t-1));
}
har = har + mgt_fee_var_mat(t); // Works for both positive and negative
return max(har, 0);
6.1.1.4.1.25
                har_acc_pup
||eq(life->paid_up, "G") || t < 0)
      return 0.0;
if(life->submodel != "TRAD")
      return 0.0;
if(t==0){
       if(life->cal_month(t) == 12. || life->mgt_deficit_perc < 0 || life->paid_up == "N")
             return 0.0; //If year-end, no accumulation. If there is bor, no accumulation
      return (life->bonus_inforce + life->resinforce)
                    * life->mgt_deficit_perc
                    * life->mgt_fee_variable/100.;
}
double har = 0;
if(life->cal_month(t) > 1)
      har = har_acc_pup(t-1)
                    * (1. - death_rate(t-1))
                    * (1. - life->lapse_rate_pup_bal(t-1))
                    * (1. - life->retirement_prop(t-1))
                           + har_acc(t-1)
                           * life->surv_per_ret(t-1)
                           * life->pup_rate_bal_dep(t-1);//Passed from active;
har = har + mgt_fee_var_pup(t); // Works for both positive and negative
return max(har, 0);
```

return min(har_ret,

(har_acc(t-1)

6.1.1.4.1.26 har return if (t <= 0 || (life->par nonpar=="N") || t > life->mat period original ||eq(life->paid up, "G") || life->mgt_fee_variable == 0) return 0.0; if(life->submodel != "TRAD") return 0.0; if (life->paid_up == "Y") return 0.0; if $(har_acc(t-1) == 0.0)$ return 0; //Nothing collected to return if (net interest rate(t) > 0.0) return 0.0; //No need to return if interest is positive if (life->cal_month(t) == 1) return 0.0; //Do not carry over to new year double har_ret = life->mgt_fee_variable/100. * (int_cred(t) - mgt_fee_fix(t)) * (-1.); // Management fees that should be returned return min(har_ret, har_acc (t-1) * (1. - death_rate(t-1)) * (1. - life->lapse_total_bal(t-1)) * (1. - life->prem_termination_prop(t-1)));//Cannot return more than accumulated har for that year $% \left(1\right) =\left(1\right) \left(1\right) \left($ 6.1.1.4.1.27 har_return_mat if (t < 0 || (life->par_nonpar=="N") || t > life->maturity_period_w ||eq(life->paid_up,"G") || life->mgt_fee_variable == 0 || t <= life->mat_period_original || !eq(life->ben_class, "gimla")) return 0.; if(life->submodel != "TRAD") return 0.0; if (net_interest_rate(t) > 0.0 || (har_acc_mat(t-1) == 0.0 && t != life->mat_period_original + 1)) return 0.0; if (life->cal_month(t) == 1) return 0.0; //Do not carry over to new year double har_ret = life->mgt_fee_variable/100. * (int_cred_mat(t) - mgt_fee_fix_mat(t)) * (-1.); // Management fees that should be returned if(t == life->mat_period_original + 1){ if $((har_acc(t-1) + har_acc_pup(t-1)) == 0.)$ return 0.0;

```
* (1. - death_rate(t-1))
                                     * (1. - life->lapse_rate_act_bal(t-1))
                                    * (1. - life->retirement_prop(t-1))
                             + har_acc_pup(t-1)
                                    * (1. - death_rate(t-1))
                                    * (1. - life->lapse_total_bal(t-1))
                                    * (1. - life->prem_termination_prop(t-1))
                             );
}
return min(har_ret,
                      har acc mat(t-1)
                      * (1. - death rate(t-1))
                      * (1. - life->retirement prop(t-1)));
6.1.1.4.1.28
                 har_return_pup
if (t <= 0 || (life->par_nonpar=="N") || t > life->mat_period_original ||eq(life->paid_up,"G") ||
life->mgt_fee_variable == 0)
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
if ((har_acc(t-1) + har_acc_pup(t-1)) == 0.0)
       return 0; //Nothing collected to return
if (net_interest_rate(t) > 0.0)
       return 0.0; //No need to return if interest is positive
if (life->cal_month(t) == 1)
       return 0.0; //Do not carry over to new year
double har_ret = life->mgt_fee_variable/100.
                             * (int_cred_pup(t) - mgt_fee_fix_pup(t))
                             * (-1.); // Management fees that should be returned
double har_for_ret = har_acc_pup(t-1)
                                     * (1. - death_rate(t-1))
                                    * (1. - life->lapse_rate_pup_bal(t-1))
                                    * (1. - life->retirement_prop(t-1))
                                    + har_acc(t-1)
                                            * life->surv_per_ret(t-1)
                                            * life->pup_rate_bal_dep(t-1);
return min(har_ret,
                      har_for_ret
                       );//Cannot return more than accumulated har for that year
6.1.1.4.1.29
                 int_cred
if (t <= 0 || (life->par_nonpar=="N") || t > life->mat_period_original ||eq(life->paid_up,"G"))
       return 0.0;
```

```
if(life->submodel != "TRAD")
       return 0.0;
int proj_yr = xint(life->proj_year(t));
double temp_inv_rate_m = 0.0;
if(eq(life->projection_type_int, "Rollup"))
       proj_yr = xint(life->proj_year_rollup(t));
proj_yr = max(proj_yr, 0);
if (life->margin add asset == "Y" && t == 1 && life->par nonpar == "P")
       temp_inv_rate_m = life->asset_shock;
else
       temp inv rate m = life->inv rate mth t[proj yr];
return temp_inv_rate_m
              * (bonus_b(t) + res_to_bonus(t));
6.1.1.4.1.30
                 int_cred_mat
if (t > life->maturity_period_w || (life->par_nonpar=="N") || t <= life->mat_period_original
||eq(life->paid_up, "G")||!eq(life->ben_class, "GIMLA"))
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
int proj_yr = xint(life->proj_year(t));
double temp_inv_rate_m = 0.0;
if(eq(life->projection_type_int, "Rollup"))
       proj_yr = xint(life->proj_year_rollup(t));
proj_yr = max(proj_yr, 0);
if (life->margin_add_asset == "Y" && t == 1 && life->par_nonpar == "P")
       temp inv rate m = life->asset shock;
else
       temp_inv_rate_m = life->inv_rate_mth_t[proj_yr];
double temp = 0.0;
if (t == life->mat_period_original + 1 && ann_factor_pol != 0 && puv_factor(t-1) != 0)
       temp = (sv_factor(t-1) * annuity_if_b(t-1)/100. * life->surv_per_act_bal_bef_ret(t-1) +
bonus_if(t-1))
                       * life->surv_act_post_ret(t)
                       + ((sum_insured_if_b_pup(t-1)
                             *(100./ann_factor_pol)
                             *sv_factor(t-1)/puv_factor(t-1)
                             *(1-death_rate(t-1))
                             + bonus_if_pup(t-1)))
                             * life->surv_pup_post_ret(t);
else
       temp = surr_value(t-1) * life->surv_act_post_ret(t)
```

```
+ surr_value_pup(t-1) * life->surv_pup_post_ret(t);
return temp * temp_inv_rate_m;
6.1.1.4.1.31
                 int_cred_pup
if (t <= 0 || (life->par_nonpar=="N") || t > life->mat_period_original ||eq(life->paid_up,"G"))
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
int proj_yr = xint(life->proj_year(t));
double temp_inv_rate_m = 0.0;
if(eq(life->projection_type_int, "Rollup"))
       proj_yr = xint(life->proj_year_rollup(t));
proj_yr = max(proj_yr, 0);
if (life->margin add asset == "Y" && t == 1 && life->par nonpar == "P")
       temp_inv_rate_m = life->asset_shock;
else
       temp_inv_rate_m = life->inv_rate_mth_t[proj_yr];
return temp_inv_rate_m
              * (bonus_b_pup(t) + res_to_bonus_pup(t));
6.1.1.4.1.32
                 int_post_mat
if (t <= life->mat_period_original || t > life->maturity_period_w)
       return 0.;
if(life->submodel != "TRAD")
       return 0.0;
double par_rate = 0.;
double gteed_rate = int_rate_res_mthly;
if (life->par_nonpar=="N")
       return gteed_rate;
if (t == life->mat_period_original + 1)
       par_rate = bonus_rate_mat(t) + int_rate_res_mthly;
else
       par_rate = bonus_rate_mat(t);
return par_rate * (1- prop_gteedint_post_maturity) + gteed_rate * prop_gteedint_post_maturity;
6.1.1.4.1.33
                 int res deduct
if (t <= 0 || (life->par_nonpar=="N") || t > life->mat_period_original ||eq(life->paid_up,"G"))
       return 0.0;
```

```
if(life->submodel != "TRAD")
       return 0.0;
return (res_to_bonus(t) + bonus_b(t) )
               * int_rate_res_mthly;
6.1.1.4.1.34
                 int_res_deduct_pup
if (t <= 0 || (life->par_nonpar=="N") || t > life->mat_period_original ||eq(life->paid_up,"G"))
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
return (res_to_bonus_pup(t) + bonus_b_pup(t) )
              * int_rate_res_mthly;
6.1.1.4.1.35
                 maturities bon
if(life->submodel != "TRAD")
       return 0.0;
if (t == life->mat_period_original && life->par_nonpar == "P" && !eq(life->paid_up,"G"))
       return bonus_if(t)+ bonus_if_pup(t);
return 0.0;
6.1.1.4.1.36
                 maturities_si
if (eq(life->paid_up, "G"))
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
double sv = surr_value(t) - bonus_if(t) + surr_value_pup(t) - bonus_if_pup(t);
if (t == life->mat period original){
       if(eq(life->ben class, "GIMLA")){
               return max((sum_insured_if_b(t)+ sum_insured_if_b_pup(t)),sv);
       }
       return max((sum_insured_if_b(t)* life->surv_per_act_bal_bef_ret(t)
                             + sum_insured_if_b_pup(t)*(1. - death_rate(t)) * (1. - life-
>lapse_rate_pup_bal(t))) ,sv);
}
return 0.0;
                 mgt_fee_fix
6.1.1.4.1.37
if (t <= 0 || (life->par_nonpar=="N") || t > life->mat_period_original ||eq(life->paid_up, "G"))
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
```

```
return life->mgt_fee_fixed/1200.
                    * (bonus_b(t)
                           + res_to_bonus(t)
                           + int_cred(t)
6.1.1.4.1.38
                mgt_fee_fix_mat
if (t > life->maturity_period_w || (life->par_nonpar=="N") || t <= life->mat_period_original
||eq(life->paid_up, "G"))
      return 0.0;
if(life->submodel != "TRAD")
      return 0.0;
double temp = 0.0;
if (t == life->mat_period_original + 1 && ann_factor_pol != 0 && puv_factor(t-1) != 0)
      temp = (sv_factor(t-1) * annuity_if_b(t-1)/100. * life->surv_per_act_bal_bef_ret(t-1) +
bonus_if(t-1))
                     * life->surv_act_post_ret(t)
                     + ((sum_insured_if_b_pup(t-1)
                           *(100./ann_factor_pol)
                           *sv_factor(t-1)/puv_factor(t-1)
                           *(1-death_rate(t-1))
                           + bonus_if_pup(t-1)))
                           * life->surv pup post ret(t);
else
      temp = surr_value(t-1) * life->surv_act_post_ret(t)
                    + surr_value_pup(t-1) * life->surv_pup_post_ret(t);
return life->mgt_fee_fixed/1200.
             * (temp + int_cred_mat(t));
6.1.1.4.1.39
                mgt_fee_fix_pup
return 0.0;
if(life->submodel != "TRAD")
      return 0.0;
return life->mgt_fee_fixed/1200.
                    * (bonus_b_pup(t)
                           + res_to_bonus_pup(t)
                           + int_cred_pup(t)
6.1.1.4.1.40
                mgt_fee_var
if (t <= 0 || (life->par_nonpar=="N") || t > life->mat_period_original ||eq(life->paid_up,"G"))
      return 0.0;
if(life->submodel != "TRAD")
      return 0.0;
```

```
double var = mgt_fee_var_no_bor(t);
//if (net_interest_rate(t) > 0.0)
       var = life->mgt_fee_variable/100.
//
                      * (int_cred(t) - mgt_fee_fix(t));// Management fee (assuming no adjustment)
var = var + bor_return(t);
var = max(var, 0);
var = var - har return(t);
if (abs(var) < SMALL_DOUBLE)</pre>
       return 0.0; //Remove small rounding issues
return var;
6.1.1.4.1.41
                 mgt_fee_var_mat
if (t > life->maturity_period_w || (life->par_nonpar=="N") || t <= life->mat_period_original
||eq(life->paid_up, "G") || !eq(life->ben_class, "gimla"))
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
double var = mgt_fee_var_no_bor_mat(t);
//if (net_interest_rate(t) > 0.0)
       var = life->mgt_fee_variable/100.
//
                      * (int_cred_mat(t) - mgt_fee_fix_mat(t));// Management fee (assuming no
//
adjustment)
var = var + bor_return_mat(t);
var = max(var, 0);
var = var - har_return_mat(t);
if (abs(var) < SMALL_DOUBLE)</pre>
       return 0.0; //Remove small rounding issues
return var;
6.1.1.4.1.42
                 mgt fee var no bor
if (t <= 0 || (life->par_nonpar=="N") || t > life->mat_period_original ||eq(life->paid_up,"G"))
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
if (net_interest_rate(t) > 0.0)
       return life->mgt fee variable/100.
                      * (int_cred(t) - mgt_fee_fix(t));// Management fee (assuming no adjustment)
return 0.0;
```

```
6.1.1.4.1.43
                 mgt_fee_var_no_bor_mat
if (t > life->maturity_period_w || (life->par_nonpar=="N") || t <= life->mat_period_original
||eq(life->paid_up, "G") || !eq(life->ben_class, "gimla"))
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
if (net_interest_rate(t) > 0.0)
       return life->mgt_fee_variable/100.
                      * (int_cred_mat(t) - mgt_fee_fix_mat(t));// Management fee (assuming no
adjustment)
return 0.0;
6.1.1.4.1.44
                 mgt_fee_var_no_bor_pup
if (t <= 0 || (life->par_nonpar=="N") || t > life->mat_period_original ||eq(life->paid_up,"G"))
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
if (net_interest_rate(t) > 0.0)
       return life->mgt_fee_variable/100.
                      * (int_cred_pup(t) - mgt_fee_fix_pup(t));// Management fee (assuming no
adjustment)
return 0.0;
6.1.1.4.1.45
                 mgt_fee_var_pup
if (t <= 0 || (life->par_nonpar=="N") || t > life->mat_period_original ||eq(life->paid_up,"G"))
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
double var = mgt_fee_var_no_bor_pup(t);
//if (net_interest_rate(t) > 0.0)
       var = life->mgt_fee_variable/100.
//
//
                      * (int_cred_pup(t) - mgt_fee_fix_pup(t));// Management fee (assuming no
adjustment)
var = var + bor_return_pup(t);
var = max(var, 0);
var = var - har_return_pup(t);
if (abs(var) < SMALL_DOUBLE)</pre>
       return 0.0; //Remove small rounding issues
return var;
```

```
6.1.1.4.1.46
                 net interest rate
if (t <= 0 || (life->par_nonpar=="N") || t > life->maturity_period_w ||eq(life->paid_up,"G"))
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
double temp_inv_rate_m = 0.0;
int proj_yr = xint(life->proj_year(t));
if(eq(life->projection_type_int, "Rollup"))
       proj_yr = xint(life->proj_year_rollup(t));
proj_yr = max(proj_yr, 0);
if (life->margin_add_asset == "Y" && t == 1 && life->par_nonpar == "P")
       temp_inv_rate_m = life->asset_shock;
else
       temp_inv_rate_m = life->inv_rate_mth_t[proj_yr];
return (1+temp_inv_rate_m)
              * (1- life->mgt fee fixed/1200.)
              -1.;
6.1.1.4.1.47
                 puv_factor
if(life->submodel != "TRAD" || eq(life->prod_code_old,"0"))
       return 0.0;
if (eq(life->sur_val_method, "sv_table")){
       int t_lim = t;
    if(t > life->mat_period_original)
              t_lim = life->mat_period_original;
       if (xint(life->pol_year(t_lim)) > 0){
              life->puv_row_key = xstring(xint(life->age_at_issue))+"_"+xstring(xint(life-
>benefit_term/12));
              life->puv_col_key = xstring(life->pol_year(t_lim));
              double temp = life->puv 09 tbl;
              life->puv_row_key = xstring(xint(life->age_at_issue))+"_"+xstring(xint(life-
>benefit_term/12));
              life->puv_col_key = xstring(life->pol_year(t_lim) - 1);
              double tempdn = life->puv_09_tbl;
              if (xint(life->pol_month(t_lim)) != 12) // interpolation
                      return temp * life->pol_month(t_lim)/12.
                                    + tempdn
                                    * (1. - life->pol_month(t_lim)/12.);
              return temp;
              }
       }
return 0.0; //Unconditional return
```

```
6.1.1.4.1.48
                 res to bonus
if (t <= 0 || (life->par_nonpar=="N") || t > life->mat_period_original ||eq(life->paid up, "G"))
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
if (life->surv_bal_bef_ret(t) > 0.)
       return (reserve_basic_prem_if(t-1)
                      - zillmer_book(t-1)*
                      life->surv_act_bal_bef_ret(t)/life->surv_bal_bef_ret(t)
                      * life->surv_per_act_bal_bef_ret(t);
return 0.0;
6.1.1.4.1.49
                 res to bonus pup
if (t <= 0 || (life->par_nonpar=="N") || t > life->mat_period_original ||eq(life->paid_up,"G"))
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
if (life->surv_bal_bef_ret(t) > 0.)
       return (reserve_basic_pup(t-1)
                      zillmer book(t-1)
                      *life->surv_pup_bal_bef_ret(t)/life->surv_bal_bef_ret(t)
                      *(1.- death rate(t))
                      * (1. - life->lapse_rate_pup_bal(t));
return 0.0;
6.1.1.4.1.50
                 surr_value
if (t <= life->commence_period_w || t > life->maturity_period_w ||eq(life->paid_up,"G"))
       return 0.0;
if (life->submodel != "TRAD")
       return 0;
if (life->paid_up=="Y") // paid-up cover in force uses secondary sum-life->insured
       return 0.0;
int t_lim = life->mat_period_original;
if (eq(life->sur_val_method, "sv_table")) {
       if(eq(life->ben_class, "GIMLA")){
               if (t == t_lim)
                      return sv_factor(t) * annuity_if_b(t)/100. * life-
>surv_per_act_bal_bef_ret(t) + bonus_if(t);
               else if (t < t lim){
```

```
if(life->lapse_force_rate == 1. && life->lapse_force_month == t)
                             return sv_factor(t) * annuity_if_b_bef_ret(t) / 100. + bonus_if(t);
                      return sv factor(t) * annuity_if_b_bef_ret(t+1)/100. + bonus_if(t); //*** may
not work with new business layering, may need annuity_if_e(t)
              }
              else{
                      if (t == t_lim + 1)
                             return ((sv_factor(t_lim) * annuity_if_b(t_lim)/100. * life-
>surv_per_act_bal_bef_ret(t_lim) + bonus_if(t_lim)) * (1 + int_post_mat(t))) * life-
>surv_act_post_ret(t);
                      return surr_value(t-1) * (1 + int_post_mat(t)) * life->surv_act_post_ret(t);
       }
   if (t == t_lim)
              return sv factor(t) * life->sum ins curr/1000. * life->benefits curr* life-
>surv_act_bal_bef_ret(t) + bonus_if(t);
       else if(t < t_lim){
              if(life->lapse force rate == 1. && life->lapse force month == t)
                      return sv_factor(t-1) * life->sum_ins_curr/1000. * life->benefits_curr +
bonus_if(t-1);
              return sv factor(t) * life->sum ins curr/1000. *life->benefits curr * life-
>surv_act_bal_bef_ret(t) + bonus_if(t);
       else {
              if(t == t lim + 1)
                      return ((sv_factor(t_lim) * life->sum_ins_curr/1000. * life->benefits curr*
life->surv_act_bal_bef_ret(t_lim) + bonus_if(t_lim)) * (1 + int_post_mat(t))) * life-
>surv_act_post_ret(t);
              return surr_value(t-1) * (1 + int_post_mat(t)) * life->surv_act_post_ret(t);
}
if (t == t_lim)
       return bonus_if(t) + sum_insured_if_b(t);
if (t > t_lim){
       if (t == t_lim + 1)
              return ((bonus_if(t_lim) + sum_insured_if_b(t_lim)) * (1 + int_post_mat(t))) * life-
>surv_act_post_ret(t);
       return surr_value(t-1) * (1 + int_post_mat(t)) * life->surv_act_post_ret(t);
       }
if (eq(life->sur val method, "perc res"))
       return life->sur val perc[xint(life->pol year(t))]/100. * reserve basic(t) + bonus if(t);
return 0.0;
6.1.1.4.1.51
                 surr_value_pup
if (t < 0 | | t > life->maturity period w | |eq(life->paid up, "G"))
       return 0.0;
//if row doesnt exist in sv tbl then use the sv from data
if (eq(life->sur_val_method, "sv_table") && sv_tbl_check == 99999
```

```
&& (!eq(life->ben_class, "GIMLA") || (life->sm_annuity[life->sm_annuity.size()-1]->takeup_age >=
(life->age_at_issue + life->elapsed_months/12)))){
       if (t==0)
              return life->surr_value_if * life->benefits_curr;
       return surr_value_pup(t-1) * (1 + int_post_mat(t)) * life->surv_pup_post_ret(t);
}
int t_lim = life->mat_period_original;
if (life->submodel != "TRAD" || puv_factor(t) == 0 || puv_factor(t_lim) == 0)
       return 0;
if (eq(life->sur_val_method, "sv_table")) {
       double ann_fac_pol=1.0;
              if(eq(life->ben_class, "GIMLA") && ann_factor_pol != 0)
                      ann_fac_pol = 100./ann_factor_pol;
       if (t <= life->mat period original)
              return sum_insured_if_b_pup(t)*ann_fac_pol
                         *sv_factor(t)/puv_factor(t)
                         *(1-death_rate(t))
                         + bonus_if_pup(t);
       if (t == life->mat_period_original + 1)
              return ((sum_insured_if_b_pup(t_lim)*ann_fac_pol
                             *sv_factor(t_lim)/puv_factor(t_lim)
                             *(1-death_rate(t_lim))
                             + bonus_if_pup(t_lim)) * (1 + int_post_mat(t))) * life-
>surv_pup_post_ret(t);
       return surr_value_pup(t-1) * (1 + int_post_mat(t)) * life->surv_pup_post_ret(t);
}
if (t == life->mat_period_original)
       return bonus_if_pup(t) + sum_insured_if_b_pup(t);
if (t > life->mat_period_original){
       if (t == life->mat_period_original + 1)
              return ((bonus_if_pup(t_lim) + sum_insured_if_b_pup(t_lim)) * (1 + int_post_mat(t)))
* life->surv_pup_post_ret(t);
       return surr_value_pup(t-1) * (1 + int_post_mat(t)) * life->surv_pup_post_ret(t);
       }
if (eq(life->sur_val_method, "perc_res"))
       return life->sur_val_perc[xint(life->pol_year(t))]/100. * reserve_basic_pup(t) +
bonus_if_pup(t);
return 0.0;
                 sv_factor
6.1.1.4.1.52
if (life->submodel != "TRAD" || eq(life->prod_code_old,"0"))
       return 0;
sv_tbl_check = 0;
```

```
if (eq(life->sur_val_method, "sv_table")){
       int t_lim = t;
   if(t > life->mat_period_original){
              t_lim = life->mat_period_original;
       if (xint(life->pol_year(t_lim)) > 0){
              //check row exists in the sv table
              life->sv_row_key = xstring(xint(life->age_at_issue))+"_"+xstring(xint(life-
>benefit_term/12));
              life->sv_col_key = xstring(life->pol_year(t_lim));
              sv_tbl_check = life->sv_09_tbl_check;
              life->sv_row_key = xstring(xint(life->age_at_issue))+"_"+xstring(xint(life-
>benefit_term/12));
              life->sv_col_key = xstring(life->pol_year(t_lim));
              double temp = life->sv_09_tbl;
              life->sv_row_key = xstring(xint(life->age_at_issue))+"_"+xstring(xint(life-
>benefit_term/12));
              life->sv_col_key = xstring(life->pol_year(t_lim)-1);
              double tempdn = life->sv_09_tbl;
              if (xint(life->pol_month(t_lim)) != 12) // interpolation
                      return (temp * life->pol_month(t_lim)/12.
                                     + tempdn
                                     * (1. - life->pol_month(t_lim)/12.));
              return temp;
       }
return 0.0;
6.1.1.4.1.53
                 zillmer_book
// this is used for bonus as well, therefore must be calculated even for DAC policies
if (life->submodel != "TRAD")
       return 0;
return life->zillmer si book/100.*sum at risk if(t);
6.1.1.4.1.54
                 zillmer_tax
if (life->submodel != "TRAD")
       return 0;
if (eq(life->dac_type_temp,"zillmer"))
       return life->zillmer_si_tax/100. * sum_at_risk_if(t);
return 0;
6.1.1.4.1.55
                 ann_takeup_rate
if ((t < 0) || (t >= life->maturity_period_w)) return 0.0; // *** recreate
if(life->submodel != "TRAD")
       return 0.0;
```

```
if(life->annuitization_rate<=0.00001 || !(eq(life->ben_class, "GIMLA"))) // *** need way to
distinguish between policies with and without guarantees, and with and without kitzva option
       return 0.0;
if(life-> res_prop_kitzba<=0.0)</pre>
       return 0.0;
//Split of current savings balance into prat, oldtag, newtag and piz
double tagold_money = reserve_basic(0) * life->res_prop_kitzba_oldtag * life->surv_bal(t)*pow(1. +
life->int_rate_res/100., t/12.); // old money in-force at time t
double new_money = max(reserve_basic(t) * life->res_prop_kitzba- tagold_money, 0.0); // new money
in-force at time t
double prop_new_money = 0.0;
if (life->res_prop_kitzba_prat + life->res_prop_kitzba_piz +life->res_prop_kitzba_newtag>0.0)
       prop new money = life->res prop kitzba prat + life->res prop kitzba piz +life-
>res prop kitzba newtag;
double prat_money = 0.0;
double piz money = 0.0;
double tagnew money = 0.0;
if (prop new money>0.0) {
       prat_money = life->res_prop_kitzba_prat / prop_new_money * new_money;
       piz_money = life->res_prop_kitzba_piz / prop_new_money * new_money;
       tagnew_money = life->res_prop_kitzba_newtag / prop_new_money * new_money;
// reset annuitisation rate
double ann_rate = 0.0;
if (reserve_basic(t)>0.0){
       ann_rate = (prat_money * life->annuity_takeup_prat/100.
                     + piz_money * life->annuity_takeup_piz/100.
                     + tagold_money * life->annuity_takeup_old/100.
              + tagnew money * life->annuity takeup new tag/100. ) / reserve basic(t);
       if (life->margin add=="Y") {
               ann rate = (prat money * min(life->annuity_takeup_prat/100.*(1 + life-
>margin annuity takeup/100.), life->annuity takeup max)
                     + piz money * min(life->annuity takeup piz/100.*(1 + life-
>margin_annuity_takeup/100.), life->annuity_takeup_max)
                     + tagold money * min(life->annuity takeup old/100.*(1 + life-
>margin_annuity_takeup/100.), life->annuity_takeup_max)
+ tagnew_money * min(life->annuity_takeup_new_tag/100.*(1 + life-
>margin_annuity_takeup/100.), life->annuity_takeup_max) ) / reserve_basic(t);
       return ann rate;
return 0.0;
6.1.1.4.1.56
                 reserve
if (t <= life->commence period w || t >= life->maturity period w ||eq(life->paid up, "G"))
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
```

return NO_AVG;

```
return max(0,max((surr_value(t)+ surr_value_pup(t)) * life->surv_per_ret(t),
                        reserve_basic(t) + (bonus_if(t) +bonus_if_pup(t))* life->surv_per_ret(t) +
reserve extra(t))
                      + life->res_ann_deficiency(t));
6.1.1.4.1.57
                 reserve_extra
if(life->submodel != "TRAD" || eq(life->prod_code_old,"0"))
       return 0.0;
double sv_temp=0.0, prop_spread=0.0;
if (inlist(life->ben_class,"END,WOL")) {
       if (!eq(life->sur_val_method, "sv_table"))
       return 0.0:
       life->sv_row_key = xstring(xint(life->age_at_issue))+"_"+xstring(xint(life-
>benefit_term/12));
       life->sv_col_key = xstring(xint(life->benefit_term/12.));
    sv_temp =life->sv_09_tbl;
       prop_spread = min(min(life->benefit_term , 12 * 25) , life->pol_year(t)*12. - 12. + life-
>pol_month(t))
                                    /min(life->benefit term , 12 * 25); // *** 25 years until full
bonus obtained not parameterized
       return max((sv temp/1000. - 1.) * prop spread * reserve basic(t),0);
}
return 0.0;
6.1.1.4.1.58
                 ann factor weighted
if (t < life->commence period w || t > life->mat period original)
       return NO AVG;
if(life->submodel != "TRAD")
       return 0.0;
if(xint(life->pol_month(t))==12)
       return annuity_factor(t);
else {
       int t_down = (xint(life->pol_year(t))-1)*12 - life->elapsed_months;
       double interpol = life->pol_month(t)/12.;
       if (t_down + 12 >= life->mat_period_original)
              return annuity_factor(t_down) * (1. - interpol); //Up part is 0
       else
              return annuity_factor(t_down) * (1. - interpol) + annuity_factor(t_down+12) *
interpol;
}
6.1.1.4.1.59
                 ann factor weighted int0
if (t < life->commence_period_w || t > life->mat_period_original)
```

```
if(life->submodel != "TRAD")
       return 0.0;
if(xint(life->pol_month(t))==12)
       return annuity_factor_int0(t);
else {
       int t_down = (xint(life->pol_year(t))-1)*12 - life->elapsed_months;
       double interpol = life->pol_month(t)/12.;
       if (t_down + 12 >= life->mat_period_original)
              return annuity_factor_int0(t_down) * (1. - interpol); //Up part is 0
       else
              return annuity factor int0(t down) * (1. - interpol) + annuity factor int0(t down+12)
* interpol;
}
6.1.1.4.1.60
                 annuity_factor
if (t < life->commence_period_w || t >= life->prem_term - life->elapsed_months || eq(life->paid_up
,"Y"))
       return NO_AVG;
if(life->submodel != "TRAD")
       return 0.0;
int age now = xint(life->age last(t+1));
int age_end = xint(life->age_at_issue + ceil(life->prem_term/12. * life->prem_freq)/life-
>prem_freq);
if (inlist(life->ben class, "END, WOL, YTRON, GIMLA"))
       return (res_nx(age_now,0) - res_nx(age_end,0)) / res_dx(age_now,0);
return 0;
6.1.1.4.1.61
                 annuity_factor_int0
if (t < life->commence_period_w || t >= life->mat_period_original || eq(life->paid_up ,"Y") ||
!eq(life->ben_class, "gimla"))
       return NO_AVG;
if(life->submodel != "TRAD")
       return 0.0;
int age_now = xint(life->age_last(t+1));
int age_end = xint(life->age_at_issue + ceil(life->prem_term/12. * life->prem_freq)/life-
>prem_freq);
return (res_nx(age_now,1) - res_nx(age_end,1)) / res_dx(age_now,1);
6.1.1.4.1.62
                 ass factor weighted
if (t < life->commence_period_w || t > life->mat_period_original)
       return NO_AVG;
```

```
if(life->submodel != "TRAD")
       return 0.0;
if(xint(life->pol_month(t))==12)
       return assurance_factor(t);
else {
       int t_down = (xint(life->pol_year(t))-1)*12 - life->elapsed_months;
       double interpol = life->pol_month(t)/12.;
       if (t_down + 12 >= life->mat_period_original)
              return assurance factor(t down) * (1. - interpol) + 1. * interpol;
       else
              return assurance factor(t down) * (1. - interpol) + assurance factor(t down+12) *
interpol;
}
6.1.1.4.1.63
                 ass_factor_weighted_int0
if (t < life->commence_period_w || t > life->mat_period_original)
       return NO AVG;
if(life->submodel != "TRAD")
       return 0.0;
if(xint(life->pol month(t))==12)
       return assurance_factor_int0(t);
else {
       int t_down = (xint(life->pol_year(t))-1)*12 - life->elapsed_months;
       double interpol = life->pol_month(t)/12.;
       if (t_down + 12 >= life->mat_period_original)
              return assurance_factor_int0(t_down) * (1. - interpol) + 1. * interpol;
       else
              return assurance_factor_int0(t_down) * (1. - interpol) +
assurance_factor_int0(t_down+12) * interpol;
6.1.1.4.1.64
                 assurance factor
if (t < life->commence_period_w || t > life->mat_period_original)
       return NO_AVG;
if(life->submodel != "TRAD")
       return 0.0;
int age_now = xint(life->age_last(t+1));
int age_end = xint(life->age_at_issue + life->benefit_term/12.);
// endowment formula
// WOL treated as an endowment because the term is only to age 95, and we assume benefit is paid
then (even if alive)
if (inlist(life->ben class, "END, WOL"))
       return ( (res_mx(age_now,0) - res_mx(age_end,0))
                      * int_rate_res_hy
                      + res_dx(age_end,0))
```

```
/ res_dx(age_now,0);
if (eq(life->ben_class,"YTRON"))
       double ytron_perc = min(max(life->matan_perc_temp * life->age_at_issue , life-
>min_ytron_perc) , 100.);
       return ( ytron_perc/100. * (res_mx(age_now,0) - res_mx(age_end,0))
                      * int_rate_res_hy
                      + res_dx(age_end,0))
                      / res_dx(age_now,0);
}
// GIMLA death benefit assummed to be 75 or 120 times monthly annuity amount
// ignores case where surrender value exceeds above death benefit - at higher policy durations
if (eq(life->ben_class, "GIMLA"))
       double gimla_perc=0.0;
       if(life->lapse_force_rate == 1. && life->paid_up == "N" && t == life->maturity_period_w)
       // to avoid division by 0 from sum insured if b(life->commence period w)
       // write annuity_if_b in terms of sum_insured_if_b which will cancel sum_insured_if_b
       life->gimla_row_key = xint(life->age_at_issue+life->benefit_term/12);
       life->gimla_col_key = life->sex+"_"+life->fund_name_temp;
       gimla_perc = 100. / life->gimla_table;
               if (eq(life->prod_code, "gml12"))
                      gimla_perc = 120. * gimla_perc;
               else
                      gimla_perc = 75. * gimla_perc;
       gimla_perc = min(gimla_perc, 1.);
       gimla_perc = min(gimla_perc*1.7, 1.);
       if (life->dump vars == "Y"){
               log strm<<"T: "<<t<<endl;</pre>
               log strm<<"Gimla perc: "<<gimla_perc<<endl;</pre>
               log_strm<<"Half-year int rate: "<<int_rate_res_hy<<endl;</pre>
               log_strm<<"Age end: "<<age_end<<endl;</pre>
               log_strm<<"Age now: "<<age_now<<endl;</pre>
       }
       return ( gimla_perc * (res_mx(age_now,0) - res_mx(age_end,0))
                      * int_rate_res_hy
                      + res_dx(age_end,0))
                      / res_dx(age_now,0);
}
return 0.0; //Unconditional return
6.1.1.4.1.65
                 assurance_factor_int0
if (t < life->commence_period_w || t > life->mat_period_original || !eq(life->ben_class,"GIMLA"))
       return NO_AVG;
if(life->submodel != "TRAD")
       return 0.0;
```

```
int age_now = xint(life->age_last(t+1));
int age_end = xint(life->age_at_issue + life->benefit_term/12.);
//Only relevant to gimla
// GIMLA death benefit assummed to be 75 or 120 times monthly annuity amount
// ignores case where surrender value exceeds above death benefit - at higher policy durations
       double gimla perc=0.0;
       if(life->lapse_force_rate == 1. && life->paid_up == "N" && t == life->maturity_period_w)
               return 1.;
       // to avoid division by 0 from sum insured if b(life->commence period w)
       // write annuity if b in terms of sum insured if b which will cancel sum insured if b
       life->gimla_row_key = xint(life->age_at_issue+life->benefit_term/12);
       life->gimla_col_key = life->sex+"_"+life->fund_name_temp;
       gimla_perc = 100. / life->gimla_table;
               if (eq(life->prod_code, "gml12"))
                      gimla_perc = 120. * gimla_perc;
               else
                      gimla_perc = 75. * gimla_perc;
       gimla_perc = min(gimla_perc, 1.);
       gimla_perc = min(gimla_perc*1.7, 1.);
       if (life->dump_vars == "Y"){
               log strm<<"T: "<<t<<endl;</pre>
               log_strm<<"Gimla perc: "<<gimla_perc<<endl;</pre>
               log_strm<<"Half-year int rate: "<<int_rate_res_hy<<endl;</pre>
               log_strm<<"Age end: "<<age_end<<endl;</pre>
               log_strm<<"Age now: "<<age_now<<endl;</pre>
       }
       return res_dx(age_end,1)
                      / res_dx(age_now,1); //Only chance will survive to maturity
6.1.1.4.1.66
                 net premium b
if(t <= life->commence_period_w || t + life->elapsed_months > life->prem_term)
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
if (life->paid_up=="Y")
       return 0.0;
if (t == life->commence period w + 1) {
```

```
double net_prem = 0.0;
       double temp = 0.0;
       temp = sum_insured(t) * assurance_factor(t-1)
                              / annuity_factor(t-1);
       net_prem = min(life->prem_curr * life->netprem_max / 100. * life->benefits_curr, temp);
       return net_prem;
return net_premium_b(life->commence_period_w + 1);
6.1.1.4.1.67
                 net premium e
if (t < life->commence_period_w || t >= life->maturity_period_w || (life->paid_up=="Y"))
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
return net_premium_b(t+1);
6.1.1.4.1.68
                 res basic act newtag
if (t < life->commence_period_w || t >= life->maturity_period_w || life->surv_ret(t) == 0)
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
if (t == 0) {
       if (life->paid up == "N")
               return reserve_basic_prem_if(t) * life->res_prop_kitzba_newtag;
       else
               return 0.0;
}
int t_down = (xint(life->pol_year(t))-1)*12 - life->elapsed_months;
double net_prem = 0;
if (!eq(life->policy_type, "private"))
                      net_prem = net_premium_e(t_down) * life->prem_newtag_prop / 100.;
if(life->dump_vars == "Y" && t==1)
log_strm<<"Net prem: "<<net_premium_e(t_down)<<endl;</pre>
log_strm<<"Net prem for tag: "<<net_prem<<endl;</pre>
log strm<<"SI newtag: "<<sum insured newtag<<endl;</pre>
log strm<<"Ax: "<<ass factor weighted(t) <<endl;</pre>
log strm<<"ax: "<<ann_factor_weighted(t)<<endl;</pre>
log_strm<<"Surv prem<<: "<<li>!<<li>!<<br/>surv_act_prm(t)<<endl;</pre>
}
if (t < life->mat_period_original)
       return (sum_insured_newtag * ass_factor_weighted(t)
                      - net_prem * ann_factor_weighted(t))
                      * life->surv_act_bal(t)
                      + (res_basic_act_piz_int(t) - res_basic_act_piz(t)) // Interest value of piz
```

```
if (t == life->mat_period_original)
       return surr_value(t)
                     * life->surv_per_ret(t)
                      * res_prop_mat_newtag;
//t > mat_orig
return (
              res_basic_act_newtag(t-1)
               * (1 + int_post_mat(t))
               res_basic_act_piz(t-1)
               * int_post_mat(t)
               * (1. - life->death rate(t))
               * life->surv_per_ret(t);
6.1.1.4.1.69
                 res_basic_act_old
if (t < life->commence_period_w || t >= life->maturity_period_w || life->res_prop_kitzba_oldtag <=</pre>
0 || life->surv_ret(t) == 0)
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
if (t == 0){
       if (life->paid_up == "N")
              return reserve_basic_prem_if(t) * life->res_prop_kitzba_oldtag;
       else
              return 0.0;
}
if (t < life->mat_period_original)
       return sum_insured_oldtag * ass_factor_weighted(t) * life->surv_act_bal(t);
return surr_value(t)
              * life->surv_per_ret(t)
               * res_prop_mat_oldtag;
6.1.1.4.1.70
                 res basic act piz
if (t < life->commence_period_w || t >= life->maturity_period_w || life->surv_ret(t) == 0)
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
if (t == 0){
       if (life->paid up == "N")
               return reserve_basic_prem_if(t) * life->res_prop_kitzba_piz;
       else
              return 0.0;
}
int t_down = (xint(life->pol_year(t))-1)*12 - life->elapsed_months;
double net_prem = 0.0;
```

```
if (!eq(life->policy_type, "private") )
       net_prem = net_premium_e(t_down) * (1. - life->prem_newtag_prop / 100.);
if (t < life->mat_period_original)
       return (sum_insured_piz_int0 * ass_factor_weighted_int0(t)
                      - net_prem * ann_factor_weighted_int0(t))
                      * life->surv_act_bal(t);
if (t == life->mat_period_original)
       return surr_value(t)
                     * life->surv_per_ret(t)
                      * res_prop_mat_piz;
//t > mat original
return res_basic_act_piz(t-1)
               * (1. - life->death rate(t))
               * life->surv_per_ret(t); //Maturity surrender value decremented
6.1.1.4.1.71
                 res basic act piz int
if (t < life->commence period w || t >= life->maturity period w || life->surv ret(t) == 0)
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
if (t == 0){
       if (life->paid_up == "N")
               return reserve_basic_prem_if(t) * life->res_prop_kitzba_piz;
       else
              return 0.0;
}
int t_down = (xint(life->pol_year(t))-1)*12 - life->elapsed_months;
double net_prem = 0.0;
if (!eq(life->policy_type, "private") )
       net_prem = net_premium_e(t_down) * (1. - life->prem_newtag_prop / 100.);
if (t < life->mat period original)
       return (sum_insured_piz * ass_factor_weighted(t)
                      - net_prem * ann_factor_weighted(t))
                      * life->surv_act_bal(t);
return surr_value(t)
               * life->surv_per_ret(t)
               * res_prop_mat_piz;
6.1.1.4.1.72
                 res_basic_act_prat
if (t < life->commence_period_w || t >= life->maturity_period_w || life->surv_ret(t) == 0)
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
if (t == 0){
```

```
if (life->paid_up == "N")
               return reserve_basic_prem_if(t) * life->res_prop_kitzba_prat;
       else
               return 0.0;
}
int t_down = (xint(life->pol_year(t))-1)*12 - life->elapsed_months;
double net_prem = 0.0;
if (eq(life->policy_type, "private"))
       net_prem = net_premium_e(t_down);
if (t < life->mat_period_original)
       return (sum_insured_prat * ass_factor_weighted(t)
                      net prem * ann factor weighted(t))
                      * life->surv_act_bal(t);
return surr_value(t)
               * life->surv_per_ret(t)
               * res_prop_mat_prat;
6.1.1.4.1.73
                 res_basic_pup_newtag
if (t < life->commence_period_w || t >= life->maturity_period_w || life->surv_ret(t) == 0)
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
if (t == 0){
       if (life->paid_up == "Y")
               return reserve_basic_pup(t) * life->res_prop_kitzba_newtag;
       else
              return 0.0;
}
if (sum insured(0) == 0)
       return 0;
if (t < life->mat period original)
       return sum_insured_if_b_pup(t) * ass_factor_weighted(t)
                      * sum_insured_newtag / sum_insured(0)
                      + (res_basic_pup_piz_int(t) - res_basic_pup_piz(t)); // Add interest part of
piz
if (t == life->mat_period_original)
       return surr_value_pup(t)
                      * life->surv_per_ret(t)
                      * res_prop_mat_newtag;
//t > mat_orig
return (
               res_basic_pup_newtag(t-1)
               * (1 + int_post_mat(t))
              res_basic_pup_piz(t-1)
               * int_post_mat(t)
               )
```

```
* (1. - life->death_rate(t))
               * life->surv_per_ret(t);
6.1.1.4.1.74
                  res basic pup old
if (t < life->commence_period_w || t >= life->maturity_period_w || life->res_prop_kitzba_oldtag <=
0 || life->surv ret(t) == 0)
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
if (t == 0){
       if (life->paid_up == "Y")
               return reserve_basic_pup(t) * life->res_prop_kitzba_oldtag;
       else
               return 0.0;
}
if(t== 93 && life->dump_vars == "Y")
        log_strm<<"Maturity: "<<li>!fe->maturity_period_w<<endl;</pre>
       log_strm<<"Maturity original: "<<li>!"<<li>!"<=>mat_period_original<</end|;</pre>
       log_strm<<"Res active before mat: "<<reserve_basic_prem_if(life->mat_period_original-
1)<<endl;
       log_strm<<"Res pup before mat: "<<reserve_basic_pup(life->mat_period_original-1)<<endl;</pre>
       log_strm<<"Res prop: "<<res_prop_mat_oldtag<<endl;</pre>
       log strm<<"Surv: "<< life->surv per ret(t);
       log_strm<<"Surr: "<<surr_value_pup(t)<<endl;</pre>
       log_strm<<"SA pup: "<<sum_insured_if_b_pup(t)<<endl;</pre>
       log_strm<<"Ass factor: "<<ass_factor_weighted(t)<<endl;</pre>
       log_strm<<"SA old: "<<sum_insured_oldtag<<endl;</pre>
       log_strm<<"SA orig: "<<li>!"<<li>life->sum_ins_curr<<endl;</pre>
       log_strm<<"Benefits: "<<li>!ife->benefits_curr<<endl;</pre>
}
if (life->sum_ins_curr * life->benefits_curr == 0)
       return 0;
if (t < life->mat_period_original)
       return sum_insured_if_b_pup(t) * ass_factor_weighted(t)
                       * sum_insured_oldtag / (life->sum_ins_curr * life->benefits_curr);
return surr_value_pup(t)
               * life->surv per ret(t)
               * res prop mat oldtag;
6.1.1.4.1.75
                  res basic pup piz
if (t < life->commence_period_w || t >= life->maturity_period_w || life->surv_ret(t) == 0)
       return 0;
if(life->submodel != "TRAD")
       return 0;
if (t == 0){
       if (life->paid_up == "Y")
               return reserve_basic_pup(t) * life->res_prop_kitzba_piz;
```

```
else
              return 0;
}
if (sum\_insured(0) == 0)
       return 0;
if (t < life->mat_period_original)
       return sum_insured_if_b_pup(t) * ass_factor_weighted_int0(t)
                      * sum_insured_piz_int0 / sum_insured(0);
if (t == life->mat_period_original)
       return surr_value_pup(t)
                      * life->surv_per_ret(t)
                      * res_prop_mat_piz;
//t > mat_original
return res_basic_pup_piz(t-1)
              * (1. - life->death_rate(t))
              * life->surv_per_ret(t); //Maturity surrender value decremented
6.1.1.4.1.76
                 res_basic_pup_piz_int
if (t < life->commence_period_w || t >= life->maturity_period_w || life->surv_ret(t) == 0)
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
if (t == 0){
       if (life->paid_up == "Y")
              return reserve_basic_pup(t) * life->res_prop_kitzba_piz;
       else
              return 0.0;
}
if (sum insured(0) == 0)
       return 0;
if (t < life->mat period original)
       return sum_insured_if_b_pup(t) * ass_factor_weighted(t)
                      * sum_insured_piz / sum_insured(0);
return surr_value_pup(t)
              * life->surv_per_ret(t)
              * res_prop_mat_piz;
6.1.1.4.1.77
                 res_basic_pup_prat
if (t < life->commence_period_w || t >= life->maturity_period_w || life->surv_ret(t) == 0)
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
if (t == 0){
       if (life->paid up == "Y")
              return reserve_basic_pup(t) * life->res_prop_kitzba_prat;
```

```
else
              return 0.0;
}
if (sum\_insured(0) == 0)
       return 0;
if (t < life->mat_period_original)
       return sum_insured_if_b_pup(t) * ass_factor_weighted(t)
                     * sum_insured_prat / sum_insured(0);
return surr_value_pup(t)
              * life->surv_per_ret(t)
              * res_prop_mat_prat;
6.1.1.4.1.78
                reserve_basic
if (t < life->commence_period_w || t >= life->maturity_period_w)
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
if(t >= life->mat_period_original)
       return (surr_value(t) + surr_value_pup(t)) * life->surv_per_ret(t);
return reserve_basic_prem_if(t) + reserve_basic_pup(t);
6.1.1.4.1.79
                reserve_basic_prem_if
if (t < life->commence_period_w || t >= life->mat_period_original)
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
double reserve_temp = 0.0;
double interpol = life->pol_month(t)/12.;
log_strm<<"T: "<<t<endl;</pre>
log_strm<<"Surv prem: "<<li>!<<li>!<<li>surv_act_prm(t)<<endl;</pre>
log_strm<<"Surv pup: "<<li>!ife->surv_pup_prm(t)<<endl;</pre>
log_strm<<"Prem term prop: "<<li>!; prem_termination_prop(t)<<endl;</pre>
//log strm<<"Surv prev: "<<li>!;//log strm<</pre>
//log strm<<"Surv prem per: "<<li>!;
//log_strm<<"Death rate: "<<li>!;death_rate(t)<<endl;</pre>
//log_strm<<"Pup rate: "<<li>!;
//log_strm<<"Prem term rate: "<<li>!"</life->prem_termination_prop(t)<<endl;</pre>
}
if (life->paid_up=="Y")
       return 0.0;
int t down = 0;
double res_up = 0.0;
```

```
if(xint(life->pol_month(t))==12)
       reserve_temp = vsa(t) - vnp(t);
else {
       t_down = (xint(life->pol_year(t))-1)*12 - life->elapsed_months;
       if (t_down+12 < life->mat_period_original)
              res_up = vsa(t_down+12)-vnp(t_down+12);
       else
              res_up = sum_insured(t);
       reserve_temp = (1. - interpol) * (vsa(t_down)-vnp(t_down))
                                     + interpol * res_up;
}
reserve_temp = reserve_temp * life->surv_act_bal(t);
if (life->zeroise res=="Y")
       reserve_temp = max(0.0, reserve_temp);
return reserve_temp;
6.1.1.4.1.80
                 reserve_basic_pup
if (t < life->commence_period_w || t >= life->mat_period_original)
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
double reserve_temp = 0.0;
double reserve_temp_pup = 0.;
double interpol = life->pol_month(t)/12.;
int t_down = 0;
double res_up = 0.0;
       if (life->paid_up=="Y"){
           if(xint(life->pol_month(t))==12)
                      reserve temp = vsa(t) - vnp(t);
              else {
                      t down = (xint(life->pol year(t))-1)*12 - life->elapsed months;
                      if (t down+12 < life->mat period original)
                             res_up = vsa(t_down+12)-vnp(t_down+12);
                      else
                             res_up = sum_insured(t);
                      reserve_temp = (1. - interpol) * (vsa(t_down)-vnp(t_down))
                                                   + interpol * res_up;
              reserve_temp = reserve_temp * life->surv_pup_bal(t);
              if (life->zeroise_res=="Y")
                      reserve_temp = max(0.0, reserve_temp);
       }
       else{
       if ( (sum_insured(t-1) * life->surv_bal(t-1))>0. || (life->lapse_force_rate == 1. && life-
>paid_up == "N")) { // to add reserve i.r.o. paid-up benefit
       if(xint(life->pol_month(t))==12)
                      reserve_temp_pup = vsa(t);
              else {
                      t_down = (xint(life->pol_year(t))-1)*12 - life->elapsed_months;
```

```
res_up = 0.0;
                      if(xint(pol_sub_year(t))== xint(life->prem_lookup_freq_temp))
                      res_up = 0.0;
                      else
                             res_up = vsa(t_down+12);
                      if (t_down + 12 >= life->mat_period_original)
                             res_up = sum_insured(t);
                      reserve_temp_pup = (1. - interpol) * vsa(t_down) + interpol * res_up;
              }
       }
       if (sum insured(t) != 0)
              reserve_temp_pup = reserve_temp_pup * life->surv_per_ret(t) *sum_insured_if_b_pup(t)
/ sum_insured(t);
       if (life->zeroise_res=="Y")
              reserve_temp_pup = max(0.0, reserve_temp_pup);
       reserve_temp = reserve_temp + reserve_temp_pup;
       }
return reserve_temp;
                 reserve_risk_premium
6.1.1.4.1.81
if (t < life->commence_period_w || t >= life->maturity_period_w)
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
double qx_res_basis = 0.0;
int age_now = xint(life->age_last(t));
if (res_lx(age_now,0) > 0 )
       qx_{res_basis} = (1.0 - res_lx(age_now+1,0) / res_lx(age_now,0))/12.0;
if ( death rate(t) > 0.0 )
       return death_claims_si(t) / death_rate(t) * qx_res_basis;
else
       return 0.0;
6.1.1.4.1.82
                 vnp
if (t < life->commence_period_w || t >= life->mat_period_original)
       return 0.0;
if (life->submodel != "TRAD")
       return 0;
return net_premium_e(t) * annuity_factor(t);
6.1.1.4.1.83
                 vsa
if (t < life->commence_period_w || t > life->mat_period_original)
       return 0.0;
if (life->submodel != "TRAD")
       return 0;
return sum_insured(t) * assurance_factor(t);
```

6.1.1.4.1.84 death_rate

```
if (t <= life->commence_period_w || t > life->maturity_period_w)
       return NO AVG;
if(life->submodel != "TRAD")
       return 0.0;
if (t <= 0 && (life->gross_up_historic=="N"))
       return 0.0;
int pol_yr = max(xint(life->pol_year(t)),1);
if (life->age\_last(t) < 18.)//assume no mortality for children up to age 18.
       return 0.0;
// Assume all lives die at omega age
if (life->age_last(t) >= life->omega_age_w)
       return 1.0;
double rate = 0.0;
// set column to allow for selection in mortality table
life->col_dth = 0;
if (life->mort_sel_status=="Y")
       life->col_dth = min(pol_yr + xint(life->elapsed_months_extra/12.), life->select_periods);
else
       life->col_dth =life->select_periods;
life->death_rate_row_key =life->age_last(t) - life->col_dth+1;
life->col_dth = life->col_dth; // reset lookup variable to avoid mutating lookup error
rate = life->death_rates_tbl;
rate = rate * life->mort_mult / 100. *(1+life->health_occ_perc/100.);
// ************ Add Margin *****************
if (life->margin_add=="Y")
       rate = rate * (1+life->margin mort pc/100);
//Margin for catastrophe
if (life->margin_add_cat == "Y" ){//Only} apply to savings and death risk
       double m_cat = 0;
       if (life->proj_year(t) == 1)
             m_cat = life->cat_risk;
       rate = rate + m_cat;
}
rate = max(0.0, min(1.0, rate));
return rate = (1. - pow(1. - rate, 1./12.));
```

```
6.1.1.4.1.85
                 pol fee
if(t <= life->commence_period_w || (t + life->elapsed_months) > life->prem_term)
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
if (life->paid_up=="Y")
       return 0.0;
if (fmod(xint(life->pol_month(t-1)), xint(12. / life->prem_freq))!=0)
       return 0.0; //not a premium due date
return life->policy_fee_if
              * life->policies_curr * life->surv_act_prm(t-1)
               / life->prem_freq
              * (1-life->pol_fee_disc_perc/100.);
6.1.1.4.1.86
                 premium
if (t <= life->commence_period_w || t + life->elapsed_months > life->prem_term)
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
if (fmod(xint(life->pol_month(t-1)), xint(12. / life->prem_freq))!=0)
       return 0.0; //not a premium due date
return premium_if_b(t) / life->prem_freq;
6.1.1.4.1.87
                 premium_gross
if (t < life->commence_period_w || t > life->maturity_period_w)
       return NO AVG;
if (fmod(xint(life->pol_month(t-1)), xint(12. / life->prem_freq))!=0)
       return 0.0; //not a premium due date
if(life->submodel != "TRAD")
       return 0.0;
return premium(t) + pol_fee(t);
6.1.1.4.1.88
                 claims_rate_per
if(t <= life->commence_period_w || t > life-> maturity_period_w || eq(life->paid_up, "G"))
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
double maturity_rate = 0.0;
double surr_rate = 0.0;
double dth_rate = 0.0;
//Maturity
if (life->mult_age_ind == 1) {
```

```
maturity_rate = life->surv_cnt_bef_ret(t) * life->retirement_prop(t) * life->benefits_curr;
}
else
{
       if (t == life->maturity period w)
              maturity_rate = (life->surv_act_cnt(t-1) + life->surv_pup_cnt(t-1))
                                            * life->benefits_curr;
}
//Surrender
if (life->surv_per_cnt(t) >0.0)
       surr_rate = life->surv_act_cnt(t-1) * life->benefits_curr * life->lapse_rate_act_cnt_dep(t)
                             + life->surv pup cnt(t-1) * life->lapse rate pup cnt dep(t);
//Death
if (life->surv\_cnt(t-1) > 0.0)
       dth_rate = life->surv_cnt(t-1) * death_rate(t);
return maturity_rate + surr_rate + dth_rate;
6.1.1.4.1.89
                 premium_if_b
if(t <= life->commence_period_w || (t + life->elapsed_months) > life->prem_term )
       return 0.0;
if(life->submodel != "TRAD" || life->paid_up=="Y")
       return 0.0;
double inc = 0.0;
if ((t>=1 && xint(life->pol_month(t)) == 1. && xint(life->pol_year(t)) > 1) ||
              (t < 1 \&\& xint(life->pol_month(t)) == 12))
       inc = life->prem_curr * life->benefits_curr * life->surv_act_prm(t-1) * life-
>premium_inc(t)/100.
              / (1 + life->premium_inc(t)/100.* (life->pol_year(1)-1));
if (life->prem_lookup_temp=="N") {//level premium
       if (t == 1)
              return life->prem_curr * life->benefits_curr;
              return premium_if_b(t-1) * life->surv_per_act_prm(t-1) + inc;
       // t<1
       if (life->surv_per_act_prm(t) == 0.) {
              return 0.;}
              return premium_if_b(t+1) / life->surv_per_act_prm(t) - inc;
}
if (t + life->commence_period_w == 1)
       return life->prem_curr * life->benefits_curr;
return premium_if_b(t-1) * life->surv_per_act_prm(t-1);
6.1.1.4.1.90
                 premium_if_e
if (t < life->commence_period_w || (t + life->elapsed_months) >= life->prem_term)
       return 0.0;
```

```
if(life->submodel != "TRAD")
       return 0.0;
if (life->paid_up=="Y")
       return 0.0;
return premium_if_b(t+1);
6.1.1.4.1.91
                 annuity if b
if (t <= life->commence_period_w || t > life->mat_period_original)
       return 0.0;
if(life->submodel != "TRAD" || life->paid_up=="Y" || ann_factor_pol == 0)
       return 0.0;
return (sum_insured(t-1) * life->surv_act_bal(t-1)) / ann_factor_pol * 100.;
6.1.1.4.1.92
                 claims_ret
if(life->mult_age_ind != 1)
       return 0.;
if(life->submodel != "TRAD")
       return 0.0;
if (t < life->mat_period_min || t > life->maturity_period_w)
       return 0.0;
if (t == life->mat period original)
       return 0.;
return surr_value(t) + surr_value_pup(t);
6.1.1.4.1.93
                 sum at risk if
if (t <= life->commence_period_w || t + life->elapsed_months >= life->ben_term_max)
       return 0.0;
if (life->submodel != "TRAD")
       return 0;
// Derive sum assured for death from death claims si formula
double deathSI = 0.0;
if (death rate(t) > 0.0)
       deathSI = death_claims_si(t) /death_rate(t) * life->surv_per_ret(t);
else
       deathSI = sum_insured_if_e(t)+sum_insured_if_b_pup(t+1);
return max(deathSI- reserve_basic(t), 0.);
6.1.1.4.1.94
                 sum insured
if (t < life->commence_period_w || t > life->mat_period_original)
       return 0.0;
if (life->submodel != "TRAD")
       return 0;
```

```
double si_inc_fix = 0.0;
if ((xint(life->pol_month(t)) == 12) \&\& (t > 0))
       si_inc_fix = life->sum_ins_inc(t) / 100. * life->sum_ins_curr;
if ((xint(life->pol_month(t)) == 11) \&\& (t < 0))
       si_inc_fix = life->sum_ins_inc(t) / 100. * life->sum_ins_curr;
if (t == 0)
       return life->sum_ins_curr * life->benefits_curr *
              (1+life->sum_ins_inc(t)/100.*max(life->pol_year(1)-1,0));
if (t > 0)
       return sum_insured(t-1) + si_inc_fix * life->benefits_curr;
// t<0
return sum_insured(t+1) - si_inc_fix * life->benefits_curr;
                 sum insured if b
6.1.1.4.1.95
if (t <= life->commence_period_w || t > life->mat_period_original)
       return 0.0;
if (life->submodel != "TRAD")
       return 0;
if (life->paid up=="Y") // paid-up cover in force uses secondary sum-life->insured
       return 0.0;
return sum_insured(t-1) * life->surv_act_prm(t-1);
                 sum insured if b pup
6.1.1.4.1.96
if (t <= life->commence_period_w || t > life->mat_period_original || eq(life->paid_up, "G"))
       return 0.0;
if (life->submodel != "TRAD")
       return 0;
if (t <= 1){
              if (life->paid_up=="Y")
                                            // paid-up cover in force
                      return sum_insured(t);
              else
                      return 0.;
}
if (eq(life->sur_val_method, "sv_table")) {
    double PUV = 0.0;
       double ann_fac_pol=1.0;
       if(eq(life->ben class, "GIMLA"))
              ann fac pol = ann factor pol/100.;
       if(sv_factor(t-1)>0.0){
              if (life->lapse_total_prm(t-1) == 1.0) //if everyone lapses assume with end of last
months surrender value
              PUV = (surr_value(t-1)- bonus_if(t-1))* life->surv_per_ret(t-1) *ann_fac_pol * (1 -
death_rate(t-1))
                      * puv_factor(t-1)/sv_factor(t-1);
              else{
//surr_val is the inforce item after the surrenders have occurred
              if (life->surv_per_prm_bef_ret(t-1)>0.0)
                      PUV = (surr\_value(t-1)- bonus\_if(t-1))*ann\_fac\_pol/life-
>surv_per_prm_bef_ret(t-1)*life->surv_per_ret(t-1) * puv_factor(t-1)/sv_factor(t-1);
```

```
}
       }
       return sum_insured_if_b_pup(t-1)
               * (1. - death_rate(t-1))
               * (1. - life->lapse_rate_pup_prm(t-1)) * life->surv_per_ret(t-1)
              + PUV // addition for new silukim
               * life->pup_rate_prm(t-1);
}
return 0.0;
6.1.1.4.1.97
                 sum_insured_if_e
if (t < life->commence_period_w || t >= life->mat_period_original)
       return 0.0;
if (life->submodel != "TRAD")
       return 0;
return sum_insured_if_b(t+1);
6.1.1.4.1.98
                 claims_re
if (t <= life->commence_period_w || t > life->mat_period_original || eq(life->re_type, "NONE"))
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
if (eq(life->re_type,"simple"))
       return death_rate(t) * sum_at_risk_if(t-1) * life->re_clm_rein_pc/100.;
//else other re_type
return death_rate(t) * max(sum_at_risk_if(t-1) - life->re_clm_ret_fix* life->surv_bal(t-1),0.);
6.1.1.4.1.99
                 comm_re
if (t <= life->commence_period_w || t > life->maturity_period_w || eq(life->re_type,"NONE"))
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
int yr;
if (atof(life->comm_by_cal)==1)
       yr=xint(life->cal_duration(t)+1);
else
       yr=xint(life->pol_year_ext(t));
if (yr >= 2)
       return life->comm_ren_re[yr] / 100. * premium_re(t) ;
return 0.0;
```

```
6.1.1.4.1.100
                 comm re prof
if (t <= life->commence_period_w || t > life->maturity_period_w)
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
return max(0,life->comm_prof_re / 100. * profit_re(t));
                 exp_re_nom
6.1.1.4.1.101
if (t <= life->commence_period_w || t > life->maturity_period_w || life->reinsurance=="N" ||
eq(life->re type, "NONE"))
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
return life->expense_re_nom_temp / 100. * premium_re(t);
                 premium_if_b_re
6.1.1.4.1.102
if(t <= life->commence_period_w || t > life->mat_period_original)
       return 0.0;
if(life->submodel != "TRAD" || life->reinsurance=="N" || eq(life->re_type,"NONE"))
       return 0.0;
if(eq(life->re_type,"simple"))
       return claims_re(t)*(1.+life->re_cost_perc/100.) * life->prem_freq;
if (eq(life->re_type,"OT")) {
       return premium_if_b(t)* sum_insured_re(t-1)/sum_insured(t-1);
}
// re type = YRT
double prate = 0.0;
if (xint(life->pol_month(t)) == 1){
       prate = life->prem_rates_re * (1+ max(life->health_occ_perc_min,life->health_occ_perc)/100.)
+ life->prem_per_unit_si_re;
       prate = prate / 1000.0 * max(sum_at_risk_if(t-1) - life->re_clm_ret_fix* life->surv_bal(t-
1),0.);
       return prate;
}
return premium_if_b_re(t-1) * life->surv_per_bal(t-1);
6.1.1.4.1.103
                 premium_re
if (t <= life->commence_period_w || t > life->maturity_period_w)
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
```

```
if (t < -13)
       return 0.0;
if (fmod(xint(life->pol_month(t-1)), xint(12. / life->prem_freq))!=0)
       return 0.0; //not a premium due date
return premium_if_b_re(t) / life->prem_freq;
6.1.1.4.1.104
                 profit re
if (t <= life->commence_period_w || t > life->maturity_period_w || t<-120)</pre>
       return 0.0;
if(life->submodel != "TRAD")
       return 0.0;
if (t==0)
       return 0.0;
return premium_re(t)
       - claims re(t)
       - comm re(t)
       - exp_re_nom(t);
6.1.1.4.1.105
                 sum_insured_re
if (t < life->commence_period_w || t > life->mat_period_original)
       return 0.0;
if (life->submodel != "TRAD")
       return 0;
if(life->reinsurance=="N")
       return 0;
double sum_ins_re = sum_insured(t) - life->benefits_curr * life->re_clm_ret_fix;
return max(sum_ins_re,0);
6.1.1.4.1.106
                 startup
// do not continue with startup if record not for this submodel
start_externs
       extern map <int, int> ann_index_map;
end externs
if (life->submodel != "TRAD")
       return 0;
set_other_variables();
set_premium_si();
if (eq(life->done_startup_w, "false")){// Dump variables
       validate data();
       life->done_startup_w = "true";
}
if (!eq(life->error_msg,"no_error")) { // this causes all formulae to be zero
```

```
life->maturity_period_w = -1;
       life->mat_period_min = -1;
       life->commence_period_w = 1;
return 0.0;
6.1.1.4.1.107
                 pol_sub_year
if (t < life->commence_period_w || t > life->maturity_period_w)
       return NO_AVG;
if(life->submodel != "TRAD")
       return 0.0;
if(life->prem_lookup_freq_temp == 0)//level premium
       return life->pol_year(t);
if (xint(fmod(xint(life->pol_year(t)),life->prem_lookup_freq_temp)) == 0)//YRT or stepped premium
       return life->prem_lookup_freq_temp;
return fmod(xint(life->pol year(t)),life->prem lookup freq temp);
6.1.1.4.2 External Functions
6.1.1.4.2.1
                 monthly_rate
double monthly_rate(double annual_rate) {
       return (pow(1. + annual_rate / 100. , 1. / 12.) - 1.);
}
6.1.1.4.2.2
                 set_other_variables
void set_other_variables (void) {
int mth=0, year=0, i=0;
double total=0.0,mult=0.0;
// calculate benefit term for Whole of Life
if (eq(life->ben_class, "WOL"))
       life->benefit_term = (95 - xint(life->age_at_issue)) * 12; // to correct limiting of term in
conversion
// set premium term
       if (eq(life->ben_class,"WOL")&& atoi(life->prem_age)>0)
              life->prem_term = (atoi(life->prem_age) - xint(life->age_at_issue)) * 12;
       else
              life->prem_term = life->benefit_term;
// set Capital requirement as a percentage of DAC-Books
if (life->dac_cap_apply=="N")
       life->dac_cap_perc_w = 0.0;
else {
       if (life->prod_yr_w < 1999)</pre>
              life->dac cap perc w = 0.0;
       if (life->prod yr w >= 1999)
              life->dac_cap_perc_w = 30.0;
```

```
if (life->prod_yr_w >= 2004)
              life->dac_cap_perc_w = 100.0;
}
life->ben_term_max = life->benefit_term;
life->ben_period_min = life->benefit_term;
       if(life->mult_age_ind == 1){
              life->ben_term_max = max(life->benefit_term, (life->sm_annuity[life-
>sm_annuity.size()-1]->takeup_age - life->age_at_issue) * 12);
              life->ben_period_min = min(life->benefit_term, (life->min_retirement_age - life-
>age_at_issue) * 12);
life->maturity_period_w = life->commence_period_w + life->ben_term_max;
life->mat_period_min = life->commence_period_w + life->ben_period_min;
life->mat_period_original = life->commence_period_w + life->benefit_term;
life->matan_period_w = life->commence_period_w + life->matan_term;
life->gimla_db_period_w = life->commence_period_w + (xint(life->benefit_term/18) - 3) * 12;
if (life->prod code == "whlf" || life->prod code == "whlp")
       life->maturity_period_ann = life->maturity_period_w;
if (life->maturity_period_w >= 12*xint(t_high/12.))
       throw("Benefit Term exceeds projection period, rerun with larger t_high\n");
life->v_month_w = 1. / (1. + monthly_rate(life->ev_disc_rate));
// if discount type = Single, then replace the discount rate vector with the input value
if (eq(life->ev_discount_rate_type, "Single")) {
       for (i=0; i<=119.;i++){
              life->v_month_t[i] = life->v_month_w;
              } //end for loop
       } // end if
// ****** set commission variables **************************
//commission reduction for short premium terms
mult = 1.;
if(life->comm_min_prem_term > 0){
       mult = life->prem_term/life->comm_min_prem_term;
       mult = min(1.,mult);
       for(i = 0; i<116; i++){
              life->comm_regular_pc[i] = life->comm_regular_pc[i]*mult;
}
// Set total percentage of initial regular commission
double comm_tot =0.;
       for (i = 0; i<115; i++)
       comm_tot = comm_tot+life->comm_regular_pc[i];
       life->comm_reg_tot_w = comm_tot;
```

```
// Set DAC amortisation period
if(eq(life->dac_amort_type, "Lifetime"))
       life->dac_amort_per = life->prem_term;
if(life->dac_amort_per > life->prem_term)
       life->dac_amort_per = life->prem_term;
// set old numerical product code to reference sv tables
life->prod_code_old = xstring(life->prodcdold);
life->fund name temp = xstring(life->fund name);
// Change fund name to read right annuity factors
if(inlist(life->prod_code, "a72, a80-00honi") && (atoi(life->fund) < 100 || inlist(life->fund,
"521,523,527")))
      life->fund name temp = xstring(min(atoi(life->fund name temp),50));
if(eq(life->prod code, "asav") && inlist(life->fund, "52,521,523,527"))
       life->fund name temp = xstring(min(atoi(life->fund name temp),50));
if(eq(life->sur_val_method, "sv_table")){
       if (eq(life->ben_class,"GIMLA")){
              life->sv_tbl = life->fund_name_temp + "_" + life->prod_code_old + "_" + life->sex;
              life->puv_tbl = life->fund_name_temp + "_puv_" + life->prod_code_old + "_" + life-
>sex;
       }
       else {
              life->sv_tbl = life->fund_name_temp + "_" + life->prod_code_old;
              life->puv_tbl = life->fund_name_temp + "_puv_" + life->prod_code_old;
       }
}
// close function
6.1.1.4.2.3
                set premium si
void set_premium_si (void) {// current premium (+loadings) or sum insured calculation
//no lookup while level premium
if (life->prem_lookup_temp=="N")
       life->prem_lookup_freq_temp = 0;
if (life->premium_rate_w <= 0)</pre>
       throw NonFatalError("Premium Rate is zero or negative for policy "+life->pol number+". Check
premium table for relevant age-term.");
if ((life->policy_fee_if > life->prem_curr) && eq(life->paid_up ,"N")) // by definition trad
premium comes from the file and includes policy fee and must therefore be at least as high
       life->error_msg = "Policy fee exceeds gross premium"; // skips record with error message
if (eq(life->done_startup_w,"false")) { // for NB layering do not repeat these adjustments because
they are retained from 1 layer to the next
       if (life->mod_load_in_prem=="Y")//take off modal loading
              life->prem_curr = life->prem_curr / (1 + life->tat_shnatiut_rate/100.);
       //take off policy fee
```

```
life->prem_curr = life->prem_curr - life->policy_fee_if* life->policies_curr/life-
>benefits_curr;
       life->prem_curr = life->prem_curr / (1 + life->health_occ_perc/100.); // take off %
health/occ loading to premium
}
//reload premium
life->prem_curr = life->prem_curr * (1 + life->tat_shnatiut_rate/100.) * (1 + life-
>health_occ_perc/100.);
//add modal loading on policy fee
if (eq(life->done_startup_w,"false")) // for NB layering do not repeat these adjustments because
they are retained from 1 layer to the next
       life->policy_fee_if = life->policy_fee_if * (1+ life->tat_shnatiut_rate/100.); //*** Need to
check if p.f. includes modal loading when it comes from file
// close function
6.1.1.4.2.4
                 validate data
void validate_data(void) {
if (life->prem_term > life->benefit_term)
       life->error_msg = "prem_term_>_ben_term";
if (pv period != 12)
       throw NonFatalError("Template set up for monthly projections. Change the discount period in
the projection task.");
// check minimum age of mortality tables
int min_age_1 = -3.0; //GetRowKeyMinValue(life->death_rates tbl)
if (eq(life->mort_sel_status,"N"))
       min_age_1 =max(0, min_age_1 + life->select_periods - 1);
if (life->age_at_issue < min_age_1)</pre>
       throw NonFatalError ("Policy number " + life->pol_number + ": Issue age of life 1 is less
than the minimum age of the mortality table");
if (eq(life->projection_type,"Valn") && life->elapsed_months < 0)</pre>
       life->error_msg = "elapsed_months_<_0";</pre>
// Ensure frequencies given are factors of 12.
if ( !inlist(xstring(life->prem_freq),"1,2,3,4,6,12") ||
       (life->prem_freq == 0 && !eq(life->paid_up,"Y")) ||
       (life->prem_freq == 0 && life->prem_term > life->elapsed_months) )
              throw NonFatalError("Premium frequency must be 1, 2, 3, 4, 6, or 12.");
if (!inlist(life->ben_class,"WOL,END,YTRON,GIMLA"))
       throw NonFatalError("Unknown life->ben_class for policy number: " + life->pol_number);
if (life->sum ins curr <= 0)</pre>
       life->error msg = "Sum Insured <= 0";
// close function
}
```

6.1.1.4.3 Temporary Tables

```
6.1.1.4.3.1
                 res_cx
// Commutation Function Cx = v^{(x+1)} * lx - l(x+1)
// r = current age in years
if (r == life->omega_age_w) {
       if (c == 0)
              return res_dx(r,0)/(1.+life->int_rate_res/100.);
       else
              return res_dx(r,1);
}
double d = res_lx(r,0) - res_lx(r+1,0); //deaths aged r
if (life->int_rate_res == 0.0 || c == 1)
       return d;
return d * res_vx(r+1,0);
6.1.1.4.3.2
                 res_dx
// Commutation Function Dx Yearly Dx = lx * v^x
// r = current age in years
if (r > life->omega_age_w) //life->omega_age_w from underlying table
       return 0.0;
return res_lx(r, 0) * res_vx(r,c); //Survival rates have only 1 column, vx has 2 because of 0
interest rate
6.1.1.4.3.3
                 res_lx
// Commutation Function lx
if (r <= 0)
       return 100.0;
if (r > life->omega_age_w) // omega age allows for table adjustment
       return 0.0;
life->row_num = r-1;
double q = life->death_rates_res_tbl;
          q = q +life->mort_addn_res/1000.;
return res_lx(r-1, 0) * (1. - q);
6.1.1.4.3.4
                 res_mx
if (r>life->omega_age_w)
       return 0.0;
if (r==life->omega_age_w)
       return res_cx(r,c);
return res_cx(r,c) + res_mx(r+1,c);
```

```
6.1.1.4.3.5
                 res_nx
//Nx
if (r >= life->omega_age_w)
       return res_dx(r, c);
return res_nx(r+1, c) + res_dx(r, c);
6.1.1.4.3.6
                 res_vx
// Commutation Function vx = v^(x)
// r = current age in years
if (r \le 0) // cannot look up a zero or negative starting age
       return 1.0;
if (c==1)//0 interest rate
       return 1.0;
return res_vx(r-1,0) /(1.+life->int_rate_res/100.);
6.1.1.4.4 Scalars
6.1.1.4.4.1
                 interest rein mthly
return monthly_rate(life->interest_rein);
6.1.1.4.4.2
                 int_rate_res_hy
return pow(1. + life->int_rate_res/100., 0.5);
6.1.1.4.4.3
                 int_rate_res_mthly
return pow(1. + life->int_rate_res/100., 1/12.)-1;
6.1.1.4.4.4
                 res_prop_mat_newtag
if (!eq(life->ben_class, "gimla"))
       return 0.0;
if(life->dump vars == "Y"){
       log_strm<<"Elaps_mths: "<<li>!ife->elapsed_months<<endl;</pre>
       log_strm<<"Benefit term: "<<li>life->benefit_term<<endl;</pre>
       log_strm<<"Res prop orig: "<<li>!"<=>res_prop_kitzba_newtag<<endl;</pre>
       log_strm<<"Res basic active: "<<reserve_basic_prem_if(life->mat_period_original-1)<<endl;
       log_strm<<"Res basic pup: "<<reserve_basic_pup(life->mat_period_original-1)<<endl;
       log_strm<<"Res new active: "<<res_basic_act_newtag (life->mat_period_original-1)<<endl;</pre>
       log_strm<<"Res new pup: "<<res_basic_pup_newtag (life->mat_period_original-1)<<endl;</pre>
}
if(life->elapsed_months >= life->benefit_term)
       return life->res_prop_kitzba_newtag;
if ((reserve basic prem if(life->mat period original-1) + reserve basic pup(life-
>mat_period_original-1)) != 0)
       return (res basic act newtag (life->mat period original-1)
                       + res_basic_pup_newtag (life->mat_period_original-1))
```

```
/ (reserve_basic_prem_if(life->mat_period_original-1) +
reserve_basic_pup(life->mat_period_original-1));
return 0.0;
6.1.1.4.4.5
                 res prop mat oldtag
if (!eq(life->ben_class, "gimla"))
       return 0.0;
if(life->elapsed_months >= life->benefit_term)
       return life->res_prop_kitzba_oldtag;
if ((reserve_basic_prem_if(life->mat_period_original-1) + reserve_basic_pup(life-
>mat_period_original-1)) != 0)
       return (res_basic_act_old (life->mat_period_original-1)
                       + res_basic_pup_old (life->mat_period_original-1))
                       / (reserve_basic_prem_if(life->mat_period_original-1) +
reserve_basic_pup(life->mat_period_original-1));
return 0.0;
6.1.1.4.4.6
                 res_prop_mat_piz
if (!eq(life->ben_class, "gimla"))
       return 0.0;
if(life->elapsed_months >= life->benefit_term)
       return life->res_prop_kitzba_piz;
if ((reserve_basic_prem_if(life->mat_period_original-1) + reserve_basic_pup(life-
>mat_period_original-1)) != 0)
       return (res_basic_act_piz (life->mat_period_original-1)
                       + res basic pup piz (life->mat period original-1))
                       / (reserve basic prem if(life->mat period original-1) +
reserve_basic_pup(life->mat_period_original-1));
return 0.0;
6.1.1.4.4.7
                 res_prop_mat_prat
if (!eq(life->ben_class, "gimla"))
       return 0.0;
if(life->elapsed months >= life->benefit term)
       return life->res_prop_kitzba_prat;
if ((reserve_basic_prem_if(life->mat_period_original-1) + reserve_basic_pup(life-
>mat_period_original-1)) != 0)
       return (res_basic_act_prat (life->mat_period_original-1)
                       + res_basic_pup_prat (life->mat_period_original-1))
                       / (reserve_basic_prem_if(life->mat_period_original-1) +
reserve_basic_pup(life->mat_period_original-1));
return 0.0;
6.1.1.4.4.8
                 ann_factor_pol
double sv09 = 0;
```

```
if (xint(life->pol_year(life->mat_period_original)) > 0 && !eq(life->prod_code_old,"0")){
       life->sv_col_key = xstring(min(xint(life->benefit_term/12),life->pol_year(life-
>mat_period_original)));
       life->sv_row_key = xstring(xint(life->age_at_issue))+"_"+xstring(xint(life-
>benefit_term/12));
       sv09 = life->sv_09_tbl;
}
return sv09;
6.1.1.4.4.9
                 sum_insured_newmoney
if ((life->res_prop_kitzba_newtag + life->res_prop_kitzba_piz + life->res_prop_kitzba_prat) <= 0 ||
!eq(life->ben_class, "gimla") || life->mat_period_original <= 0 )</pre>
       return 0.0;
return max(0, sum_insured(0) - sum_insured_oldtag);
6.1.1.4.4.10
                 sum_insured_newtag
if (!eq(life->ben class, "gimla") || life->mat period original <= 0 )</pre>
       return 0.0;
double res_open = reserve_basic_prem_if(0) + reserve_basic_pup(0);
double res_tag = res_open * life->res_prop_kitzba_newtag;
if(ass_factor_weighted(0) == 0)
       return sum insured newmoney
                      * life->res_prop_kitzba_newtag
                      / (life->res prop kitzba newtag + life->res prop kitzba piz + life-
>res prop kitzba prat);
if(eq(life->policy\_type, "private") \mid \mid life->paid\_up == "Y") //Case where tag receives no premiums
       return res_tag / ass_factor_weighted(0);
//Case where tag receives prems
return (res_tag + ann_factor_weighted(0) * net_premium_e(1) * life->prem_newtag_prop / 100.)
              / ass_factor_weighted(0);
6.1.1.4.4.11
                 sum_insured_oldtag
if (life->res_prop_kitzba_oldtag <= 0 || !eq(life->ben_class, "gimla") || life->mat_period_original
<= 0 )
       return 0.0;
// Note: at present there is no SA increase for gimla, and so this element is ignored. Need to
adjust model if this changes
double res_open = reserve_basic_prem_if(0) + reserve_basic_pup(0);
double res_old = res_open * life->res_prop_kitzba_oldtag;
//Old money assumes no new prems - treat as paid_up
double ass_factor = ass_factor_weighted(0);
```

```
if (ass_factor > 0)
       return res_old / ass_factor;
return 0.0;
6.1.1.4.4.12
                 sum_insured_piz
if (!eq(life->ben_class, "gimla") || life->mat_period_original <= 0 )</pre>
       return 0.0;
double res_open = reserve_basic_prem_if(0) + reserve_basic_pup(0);
double res_piz = res_open * life->res_prop_kitzba_piz;
if(ass_factor_weighted(0) == 0)
       return sum insured newmoney
                      * life->res_prop_kitzba_piz
                      / (life->res_prop_kitzba_newtag + life->res_prop_kitzba_piz + life-
>res_prop_kitzba_prat);
if(eq(life->policy_type, "private") || life->paid_up == "Y") //Case where piz receives no premiums
       return res piz / ass factor weighted(0);
//Case where piz receives prems
return (res_piz + ann_factor_weighted(0) * net_premium_e(1) * (1. - life->prem_newtag_prop / 100.))
              / ass_factor_weighted(0);
                 sum insured piz int0
6.1.1.4.4.13
if (!eq(life->ben class, "gimla") || life->mat period original <= 0 )</pre>
       return 0.0;
double res_open = reserve_basic_prem_if(0) + reserve_basic_pup(0);
double res_piz = res_open * life->res_prop_kitzba_piz;
if(ass_factor_weighted_int0(0) == 0)
       return sum_insured_newmoney
                      * life->res_prop_kitzba_piz
                      / (life->res_prop_kitzba_newtag + life->res_prop_kitzba_piz + life-
>res_prop_kitzba_prat);
if(eq(life->policy_type, "private") || life->paid_up == "Y") //Case where piz receives no premiums
       return res_piz / ass_factor_weighted_int0(0);
//Case where piz receives prems
return (res_piz + ann_factor_weighted_int0(0) * net_premium_e(1) * (1. - life->prem_newtag_prop /
100.))
              / ass factor weighted int0(0);
```

6.1.1.4.4.14 **sum_insured_prat**

6.1.1.5 **sub_array**

6.1.1.5.1 Columns

6.1.1.5.1.1 initial_formula

return 0.0;

6.1.1.5.2 External Functions

<No External Functions Exist>

6.1.1.5.3 Temporary Tables

<No Temporary Tables Exist>

6.1.1.5.4 Scalars

<No Scalars Exist>

6.1.1.6 sub1 cflow

6.1.1.6.1 Columns

6.1.1.6.1.1 bonus_rate_acc_mthly

6.1.1.6.1.2 bonus rate mthly if (t <= life->commence period w || t > life->maturity period w) return 0.0; if(eq(life->ben_class, "phi") && eq(life->phi_type, "S")) return 0.0; int proj_yr = xint(life->proj_year(t)); if(eq(life->projection_type_int, "Rollup")) proj_yr = xint(life->proj_year_rollup(t)); // calculate bonus rate double rate = (1. + inv_rate_clm_mth_t[proj_yr]) *(1.-mgt_fee_fixed_clm/1200.)-1; if (rate > 0.) rate = rate * (1.-mgt_fee_var_clm/100.); return rate - int rate res mthly; 6.1.1.6.1.3 err if (t <= life->commence_period_w || t >= life->maturity_period_w) return 0.0; if (life->death ben w=="N" || life->err sar perc == 0.) return 0.0; double factor = 1.: if (life->err_spread_period>0.01) factor = min(1.,(life->pol_year(t) - 1 + (life->pol_month(t) + life->elapsed_months_extra) / 12.) / life->err_spread_period); return max (0.0, life->err_sar_perc / 100. * factor * sum_at_risk_if(t) * (1-life->re_clm_rein_pc/100.)); 6.1.1.6.1.4 reserve if (t <= life->commence period w || t >= life->maturity period w) return 0.0; if (life->zeroise res=="Y") return max(0.0, reserve basic(t) +reserve basic claims(t) +res np deficiency(t)); return reserve_basic(t) +reserve_basic_claims(t) +res_np_deficiency(t); 6.1.1.6.1.5 annuity factor if (t < life->commence_period_w || t >= life->prem_term - life->elapsed_months || inlist(life->paid up,"Y,C")) return NO AVG; int age_now = xint(life->age_last(t+1)); int age_end = 0; if (life->prem_lookup_temp=="Y") { age_end = xint(life->age_last((xint((life->pol_year(t+1)-1)/life->prem_lookup_freq_temp)+1)*life->prem_lookup_freq_temp*12-life->elapsed_months)); if (age_end ==0) age_end = xint(life->age_last(life->maturity_period_w)+1.);

```
age_end = xint(1. + age_end);
else
       age_end = xint(life->age_at_issue
                      + ceil(life->prem_term/12. * life->prem_freq)
                      /life->prem freq);
return (res_nx(age_now,0) - res_nx(age_end,0)) / res_dx(age_now,0);
6.1.1.6.1.6
                 assurance factor
if (t < life->commence_period_w || t >= life->maturity_period_w)
       return NO AVG;
int age_now = xint(life->age_last(t+1));
int age_end = 0;
if (life->prem_lookup_temp=="Y") {
       age end = xint(life->age last((xint((life->pol year(t+1)-1)/life-
>prem_lookup_freq_temp)+1)*life->prem_lookup_freq_temp*12-life->elapsed_months));
       if (age_end ==0)
              age end = xint(life->age last(life->maturity period w)+1);
       age_end = xint(1. + age_end);
else
       age end = xint(life->age at issue + life->benefit term/12.);
return (res_mx(age_now,0) - res_mx(age_end,0)) / res_dx(age_now,0) * int_rate_res_hy;
6.1.1.6.1.7
                 net_prem_deficiency_b
if(t <= life->commence_period_w || t + life->elapsed_months > life->prem_term)
       return 0.0;
if(inlist(life->paid_up, "Y,C") || surv(t-1)==0.0 || annuity_factor(t-1)<0.0000001 || inlist(life-
>res_basis, "No_Reserve,Perc_Prem"))
       return 0.0;
double tat_shnatiut = 1.0;
if (life->mod_load_in_prem=="N")
       tat_shnatiut = (1 + life->tat_shnatiut_rate/100.);
if(life->prem_lookup_temp=="N") {//level premium
       if (t == life->commence_period_w + 1) {
              return max(net_premium_b(t) - life->prem_curr * tat_shnatiut * life->netprem_max /
100. * life->benefits_curr, 0);
       }
       return net_prem_deficiency_b(life->commence_period_w + 1);
}
//if life->prem lookup = "Y"
double net_prem = 0.0;
if(t == life->commence_period_w + 1 || (xint(pol_sub_year(t))== 1 && xint(life->pol_month(t)) ==
1)){
       return max(net_premium_b(t) - premium_if_b(t) / surv(t-1) * surv(life->commence_period_w) *
life->netprem_max / 100. * life->benefits_curr, 0);
return net_prem_deficiency_b(t-1);
```

```
6.1.1.6.1.8
                 net premium b
if(t <= life->commence period w || t + life->elapsed months > life->prem term || inlist(life-
>paid_up,"Y,C"))
       return 0.0;
if (annuity factor(t-1)<0.0000001) return 0.0;
if(life->prem_lookup_temp=="N") {//level premium
       if (t == life->commence_period_w + 1) {
              double net_prem = 0.0;
              net_prem = assurance_factor(t-1)/annuity_factor(t-1);
              return net_prem;
       }
       return net_premium_b(life->commence_period_w + 1);
}
//if life->prem_lookup = "Y"
double net_prem = 0.0;
if(t == life->commence_period_w + 1 || (xint(pol_sub_year(t)) == 1 && xint(life->pol_month(t)) ==
1)){
       net_prem = assurance_factor(t-1)/annuity_factor(t-1);
       return net_prem;
return net_premium_b(t-1);
6.1.1.6.1.9
                 net_premium_e
if (t < life->commence_period_w || t >= life->maturity_period_w || inlist(life->paid_up,"Y,C"))
       return 0.0;
return net_premium_b(t+1);
6.1.1.6.1.10
                 res_np_deficiency
if (t < life->commence_period_w || t >= life->maturity_period_w)
       return 0.0;
if (inlist(life->res_basis, "No_Reserve,Perc_Prem"))
       return 0.0;
//If res basis is "Net Prem"
double reserve temp = 0;
double res_up=0.0;
int t_down=0;
double interpol = life->pol_month(t)/12.;
   if(xint(life->pol_month(t))==12) {
       reserve_temp = net_prem_deficiency_b(t+1) * annuity_factor(t);
}
else {
       t_down = (xint(life->pol_year(t))-1)*12 - life->elapsed_months;
       res_up = 0.0;
       if(xint(pol_sub_year(t))== xint(life->prem_lookup_freq_temp))
              res_up = 0.0;
       else
              res up = net prem deficiency b(t down+12+1) * annuity factor(t down+12);
       reserve temp = (1. - interpol) * (net prem deficiency b(t down+1) * annuity factor(t down))
                                    + interpol * res_up;
```

```
}
reserve_temp = reserve_temp * surv(t);
return reserve_temp;
6.1.1.6.1.11
                 reserve_basic
if (t < life->commence_period_w || t >= life->maturity_period_w ||life->paid_up =="C")
       return 0.0;
if (eq(life->res_basis, "No_Reserve"))
       return 0.0;
// for YRT premium return a precentage of annual premium in force
if (eq(life->res_basis, "Perc_Prem")) {
       int yr_ref = 0;
       yr_ref = round((t+life->elapsed_months)/12.,0);
       yr_ref = max(0,yr_ref);
       return life->res_perc_prem[yr_ref] /100. * surv(t)
                             * premium_if_e(t) /(1.+life->tat_shnatiut_rate/100.);
}
//if res basis is "Net Prem"
double reserve_temp = 0.0;
double res_up=0.0;
int t_down=0;
double interpol = life->pol_month(t)/12.;
   if(xint(life->pol_month(t))==12) {
       reserve_temp = vsa(t) - vnp(t);
}
else {
       t_down = (xint(life->pol_year(t))-1)*12 - life->elapsed_months;
       res_up = 0.0;
       if(xint(pol_sub_year(t))== xint(life->prem_lookup_freq_temp))
               res_up = 0.0;
       else
               res_up = vsa(t_down+12)-vnp(t_down+12);
       reserve temp = (1. - interpol) * (vsa(t down)-vnp(t down))
                                     + interpol * res up;
reserve_temp = reserve_temp * surv(t);
if (eq(life->ben_class,"ltc") \&& sum_insured_if_b(t)>0.) { // to add reserve i.r.o. paid-up benefit
       double reserve_temp_pup = 0.;
    if(xint(life->pol_month(t))==12)
               reserve_temp_pup = vsa(t);
       else {
               t_down = (xint(life->pol_year(t))-1)*12 - life->elapsed_months;
               res_up = 0.0;
               if(xint(pol_sub_year(t))== xint(life->prem_lookup_freq_temp))
                   res_up = 0.0;
               else
                      res up = vsa(t down+12);
               reserve_temp_pup = (1. - interpol) * vsa(t_down) + interpol * res_up;
       reserve temp pup = reserve temp pup * surv(t)
```

```
* sum_insured_if_b_2(t) / sum_insured_if_b(t); // adjust for
different paid-up inforce-si compared to premium paying
       reserve_temp = reserve_temp + reserve_temp_pup;
}
return reserve_temp;
6.1.1.6.1.12
                 reserve_basic_claims
if ((!eq(life->ben_class,"phi")&&(!eq(life->ben_class,"ltc")||!eq(life->paid_up,"C")))|| !eq(life-
>use_phi_claims_cf,"Y"))
       return NO_AVG;
if (t <= life->commence_period_w || t > life->maturity_period_w)
       return 0.0;
int t_start = 0;
if (eq(life->projection_type, "Rollup"))
       t_start = life->commence_period_w +1;
if(t==0 && life->paid up =="C")
       return life->resinforce * life->benefits_curr;
if (t-t start >0)
       return claims_inpay_res.sum_of_diagonal(t-t_start);
return 0;
6.1.1.6.1.13
                 reserve_risk_premium
if (t < life->commence_period_w || t >= life->maturity_period_w)
       return 0.0;
double claims pv = 0.0;
double decrem=0.0;
int i=0, j=0;
double acc_v = 1.0;
if (eq(life->res_basis, "Net_Prem")) {
       double qx_res_basis = 0.0;
       double qx_projection = 0.0;
       int age_now = xint(life->age_last(t+1));
       if (res_lx(age_now,0) > 0 ) {
              if (life->death ben w=="Y")
                      qx_res_basis = (1.0 - res_lx(age_now+1,0) / res_lx(age_now,0));
              else {
                      life->row_num = age_now;
                      if (eq(life->use_uw_date,"Y"))
                             decrem = life->decrem_rates_uw_res;
                      else
                             decrem = life->decrem rates res;
                      qx_res_basis = decrem *
                             life->decrem mult res/100. *
                             (1.+max(life->health_occ_perc_min,life->health_occ_perc)/100.);
              }
       }
```

```
if(life->death_ben_w=="Y")
               qx_projection = death_rate_dep(t);
       else
               qx_projection =decrem_rate_dep(t);
       if ( qx_projection > 0.0 ){
               if (eq(life->ben_class,"phi") && life->use_phi_claims_cf == "Y" && t - t_start >= 0)
                      return claims_inpay_pv(t-t_start,0) / qx_projection * qx_res_basis / 12.0;
               return claims_total(t) / qx_projection * qx_res_basis / 12.0;
       }
       return 0.0;
}
// no reserve
return 0.0;
6.1.1.6.1.14
                 vnp
if (t < life->commence period w || t >= life->maturity period w)
       return 0.0;
return annuity_factor(t) * net_premium_e(t);
6.1.1.6.1.15
                 vsa
if (t < life->commence period w || t >= life->maturity period w)
       return 0.0;
return assurance_factor(t);
6.1.1.6.1.16
                 surv
if (t < life->commence_period_w || t > life->maturity_period_w)
       return NO AVG;
if (life->decrements_apply=="N")
       return 1.0;
if (inlist(life->ben_class, "phi,ltc") && eq(life->paid_up, "C") && life->use_phi_claims_cf == "Y"){
       if(t<=0)
               return 1.0;
       if (t-t_start>=0)
               return claims_inpay_rate.sum_of_diagonal(t-t_start);
       }
if (t == 0) // At start
       return 1.0;
if (t > 0 \&\& fabs(surv(t-1)) < .0000001)
       // No surv in previous period
       return NO AVG;
if (t > 0)
       return surv(t-1) * surv_per(t);
// t < 0
```

```
if (life->gross_up_historic=="Y"){
       if(fabs(surv(t+1))<.0000001)
               return NO_AVG;
       else
               return surv(t+1) / surv_per(t+1);
return surv(t+1);
6.1.1.6.1.17
                 surv 2
if (t < life->commence_period_w || t > life->maturity_period_w)
       return NO_AVG;
if (t > 0 && eq(life->ben_class,"dd"))
               return surv_2(t-1)
                             * (1. - death_rate(t))
                             * (1. - decrem_rate(t))
                             * (1. - lapse_rate(t)*life->secondary_lapse_mult/100.)
                      + surv(t-1) * decrem_rate_dep(t)* life->secondary_prop_continue/100.;
if (t > 0 && eq(life->ben_class,"ltc")) {
       double check = 0;
       if (!eq(pup_ltc_key,"0"))
               check = pup_ltc_tbl;
       if (check > 0)
               return surv_2(t-1)
                              * (1. - death_rate(t))
                             * (1. - decrem_rate(t))
                      + surv(t-1) * lapse_rate(t);
}
// for t <= 0, surv_2 remains 0 because not after a dd claim</pre>
return 0.;
6.1.1.6.1.18
                 surv_2_no_dec
if (t < life->commence_period_w || t > life->maturity_period_w)
       return NO_AVG;
if (t > 0 && eq(life->ben_class,"ltc")) {
       double check = 0;
       if (!eq(pup_ltc_key,"0"))
               check = pup ltc tbl;
       if (check > 0)
               return surv_2_no_dec(t-1)
                              * (1. - death rate(t))
                              + surv_no_dec(t-1) * lapse_rate(t);
}
// for t <= 0, surv_2 remains 0 because not after a dd claim
return 0.;
6.1.1.6.1.19
                 surv_no_dec
if (t < life->commence_period_w || t > life->maturity_period_w)
       return NO_AVG;
```

```
if (life->decrements_apply=="N")
       return 1.0;
if (inlist(life->ben_class,"phi,ltc") && eq(life->paid_up,"C") && life->use_phi_claims_cf == "Y"){
               return 1.0;
       if (t-t_start>=0)
              return claims_inpay_rate.sum_of_diagonal(t-t_start);
       }
if (t == 0) // At start
       return 1.0;
if (t > 0 \&\& fabs(surv no dec(t-1)) < .0000001)
       // No surv in previous period
       return NO AVG;
if (t > 0)
       return surv_no_dec(t-1) * surv_per_no_dec(t);
// t < 0
if (life->gross_up_historic=="Y"){
       if(fabs(surv_no_dec(t+1))<.0000001)
               return NO_AVG;
       else
               return surv_no_dec(t+1) / surv_per_no_dec(t+1);
}
return surv_no_dec(t+1);
6.1.1.6.1.20
                 surv_no_dth
if (t < life->commence_period_w || t > life->maturity_period_w)
       return NO_AVG;
if (life->decrements_apply=="N")
       return 1.0;
if (inlist(life->ben class, "phi,ltc") && eq(life->paid up, "C") && life->use phi claims cf == "Y"){
       if(t<=0)
               return 1.0;
       if (t-t_start>=0)
              return claims_inpay_rate.sum_of_diagonal(t-t_start);
       }
if (t == 0) // At start
       return 1.0;
if (t > 0 \&\& fabs(surv_no_dth(t-1)) < .0000001)
       // No surv in previous period
       return NO_AVG;
if (t > 0)
       return surv_no_dth(t-1) * surv_per_no_dth(t);
// t < 0
```

```
if (life->gross_up_historic=="Y"){
       if(fabs(surv_no_dth(t+1))<.0000001)
              return NO_AVG;
       else
               return surv_no_dth(t+1) / surv_per_no_dth(t+1);
}
return surv_no_dth(t+1);
6.1.1.6.1.21
                 surv per
if (t <= life->commence_period_w || t > life->maturity_period_w)
       return NO_AVG;
if (life->decrements_apply=="N")
       return 1.0;
if (t <= 0 && life->gross_up_historic=="N")
       return 1.0;
if(life->death_ben_w=="Y")
       return (1. - death_rate(t)) * (1. - lapse_rate(t));
else {
       if (inlist(life->ben_class, "phi,ltc") && eq(life->paid_up, "C") && life->use_phi_claims_cf ==
"Y"){
               if(t<=0)
                      return 1.0;
               if (surv(t-1)==0)
                      return 0.;
               return surv(t)/surv(t-1);
       else{
               if (eq(life->ben_class,"phi"))
               return (1. - death_rate(t)) * (1. - lapse_rate(t));
       return (1. - death_rate(t)) * (1. - lapse_rate(t)) * (1 - decrem_rate(t));
}
6.1.1.6.1.22
                 surv_per_no_dec
if (t <= life->commence_period_w || t > life->maturity_period_w)
       return NO_AVG;
if (life->decrements_apply=="N")
       return 1.0;
if (t <= 0 && life->gross_up_historic=="N")
       return 1.0;
if(life->death_ben_w=="Y")
       return (1. - death_rate(t)) * (1. - lapse_rate(t));
else {
       if (inlist(life->ben_class, "phi,ltc") && eq(life->paid_up, "C") && life->use_phi_claims_cf ==
"Y"){
               if(t <= 0)
                      return 1.0;
               if (surv_no_dec(t-1)==0)
                      return 0.;
               return surv_no_dec(t)/surv_no_dec(t-1);
               }
```

```
return (1. - death_rate(t)) * (1. - lapse_rate(t));
}
6.1.1.6.1.23
                 surv_per_no_dth
if (t <= life->commence period w || t > life->maturity period w)
       return NO_AVG;
if (life->decrements_apply=="N")
       return 1.0;
if (t <= 0 && life->gross_up_historic=="N")
       return 1.0;
if(life->death_ben_w=="Y")
       return (1. - lapse_rate(t));
else {
       if (inlist(life->ben_class,"phi,ltc") && eq(life->paid_up,"C") && life->use_phi_claims_cf ==
"Y"){
              if(t<=0)
                      return 1.0;
              if (surv_no_dth(t-1)==0)
                      return 0.;
              return surv_no_dth(t)/surv_no_dth(t-1);
       else{
              if (eq(life->ben_class,"phi"))
              return (1. - lapse_rate(t));
       return (1. - lapse_rate(t)) * (1 - decrem_rate(t));
}
6.1.1.6.1.24
                 death_rate
if (t <= life->commence_period_w || t > life->maturity_period_w)
       return NO_AVG;
if (t <= 0 && life->gross_up_historic=="N")
       return 0.0;
int pol_yr = max(xint(life->pol_year(t) + int(life->elapsed_months_extra/12.)),1);
// Assume all lives die at omega age (for death benefits)
if (life->age_last(t) >= life->omega_age_w && (life->death_ben_w=="Y"))
       return 1.0;
double rate = 0.0;
// set column to allow for selection in mortality table
life->col dth = 0;
if (life->mort_sel_status=="Y")
       life->col_dth = min(pol_yr, life->select_periods);
else
       life->col_dth = life->select_periods;
double mult_factor = life->mort_mult/100.;
if (life->age_last(t) > life->mort_mult_end_age && !eq(life->ben_class,"ltc")) // adjust mortality
multiplier after age 75 to gradually reach 100%
```

```
mult_factor = 1. + (mult_factor - 1.) * (life->omega_age_w - life->age_last(t))/(life-
>omega_age_w - life->mort_mult_end_age);
life->death_rate_row_key =life->age_last(t) - life->col_dth+1;
life->col_dth = life->col_dth; // reset lookup variable to avoid mutating lookup error
rate = life->death_rates_tbl;
rate = rate * mult_factor;
// Only apply the medical/occupational loading if there is a death benefit
if(life->death ben w=="Y")
       rate = rate * (1+max(life->health_occ_perc_min,life->health_occ_perc)/100.);
//************ add margin *********************
if (life->margin_add=="Y")
       rate = rate * (1+life->margin_mort_pc/100);
//Margin for catastrophe
if (life->margin_add_cat == "Y" && life->death_ben_w == "Y" ){//Only apply to savings and death
risk
       double m cat = 0;
       if (life->proj_year(t) == 1)
              m_cat = life->cat_risk;
       rate = rate + m_cat;
//********************* convert to monthly *********************
rate = max(0.0, min(1.0, rate));
return (1. - pow(1. - rate, 1./12.)); // convert to monthly
6.1.1.6.1.25
                 death rate dep
if(life->death_ben_w=="Y")
       return death_rate(t);
//benefits for other causes of decrement
       return death_rate(t) * (1 - 0.5 * decrem_rate(t));
6.1.1.6.1.26
                 lapse_rate
if (t <= life->commence_period_w || t > life->maturity_period_w)
       return NO_AVG;
if (t<=0 && life->gross_up_historic=="N")
       return NO AVG;
if (eq(life->ben_class,"ltc") && life->paid_up=="Y")
       return NO AVG;
if (eq(life->ben_class,"phi") && life->paid_up=="C")
       return NO AVG;
double Mass_rate = 0;
```

```
if(life->lapse_force_month >0 && life->lapse_force_month == t)
       Mass_rate = life->lapse_force_rate;
if (life->submodel != "TERM")
       return 0;
double rate_basis1 = 0;
double rate_basis2 = 0;
double rate_rider = 0;
double rate = 0;
if(life->rider ind == 1){ //this cover is rider
       if (life->savings_pol == "Y"){ //this cover is rider to savings policy
              life->lapse_type_col_key = "Surrender";
              life->lapse_expos_col_key = "premium";
              life->tarif_spec_row_key= xstring(life->tarif); //added to avoid mutating lookup term
error
              rate basis1= life->lapse_rate_im/ 100.0;
              life->lapse_type_col_key = "PUP";
              life->lapse_expos_col_key = "premium";
              life->tarif_spec_row_key= xstring(life->tarif); //added to avoid mutating lookup term
error
              rate_basis2= life->lapse_rate_im/ 100.0;
       else { // this cover is rider to non-savings policy
              life->lapse_type_col_key = "Lapse";
              life->lapse_expos_col_key = "premium";
              life->tarif spec row key= xstring(life->tarif); //added to avoid mutating lookup term
error
              rate_basis1= life->lapse_rate_im/ 100.0;
              }
       // extra lapses for the rider
       life->lapse_type_col_key = "Lapse";
       life->lapse_expos_col_key = "premium";
       life->tarif_spec_row_key= xstring(life->tarif); //added to avoid mutating lookup term error
       rate_rider= life->lapse_rider_other/ 100.0;
}
if(life->rider_ind != 1){ //this cover is main cover of the policy
       life->lapse_type_col_key = "Lapse";
       life->lapse_expos_col_key = "premium";
       life->tarif_spec_row_key= xstring(life->tarif); //added to avoid mutating lookup term error
       rate_basis1= life->lapse_rate_im/ 100.0;
}
rate = ((rate_basis1 + rate_basis2)*life->lapse_factor_proj/100.0 + rate_rider*life-
>lapse_factor_proj_rider/100.0) * life->lapse_factor(t);
double margin = 0.;
if(life->margin add=="Y")
       margin = life->margin_lapses;
rate = min( 0.999, rate * (1 + margin/100.));
```

```
rate = 1. - pow((1. - rate), 1./12.);
rate = min(rate * (1-Mass_rate) + Mass_rate,0.999);
return rate;
6.1.1.6.1.27
                 decrem_rate
if (t <= life->commence_period_w || t > life->maturity_period_w)
       return NO_AVG;
if (life->death_ben_w=="Y")
       return 0;
if (t <= 0 && life->gross_up_historic=="N")
       return 0.0;
double rate = 0.0;
life->row_num = life->age_last(t);
if (eq(life->use_uw_date, "Y"))
       rate = life->decrem_rates_uw;
else
       rate = life->decrem rates;
rate = rate * life->decrem_mult / 100. *(1+max(life->health_occ_perc_min,life-
>health occ perc)/100.);
rate = rate * life->claims_multiplier[xint(life->pol_year(t) + round(life-
>elapsed_months_extra/12.,0))]/100.; //worsening of rate with years
rate = rate * claims inflation(t);
rate = min(rate, 0.999);
//************ add margin *******************
if (life->margin_add=="Y"){
       double temp_1st_add = 0.;
              if(t>0-wp_phi && t<13-wp_phi)
                     temp_1st_add = life->margin_1styr_clms_add;
       rate = rate * (1+life->margin_claims/100. + temp_1st_add /100.);
}
rate = (1. - pow(1. - rate, 1./12.)); // convert to monthly
return rate;
6.1.1.6.1.28
                 decrem rate dep
if(life->death_ben_w=="Y")
       return 0;
//benefits for other causes of decrement
       return decrem_rate(t) * (1 - 0.5 * death_rate(t));
6.1.1.6.1.29
                 pol fee
if(t <= life->commence_period_w || (t + life->elapsed_months) > life->prem_term)
       return 0.0;
if (inlist(life->paid_up,"Y,C"))
       return 0.0;
if (fmod(xint(life->pol_month(t-1)), xint(12. / life->prem_freq))!=0)
       return 0.0; //not a premium due date
```

```
double tat_shnatiut = 1.0;
if (life->mod_load_in_prem=="N")
       tat_shnatiut = (1 + life->tat_shnatiut_rate/100.);
double temp = 1.0;
if (eq(life->ben_class,"dd") && (surv(t-1)>0.0))
       temp = (surv_2(t-1)+surv(t-1))/surv(t-1); // to calculate policy fee for secondary lives
return life->policy_fee_if
              * life->policies_b(t)
              / life->prem freq
              * (1-life->pol_fee_disc_perc/100.)
              * temp
              * tat shnatiut;
6.1.1.6.1.30
                 prem_gross_no_scen
if (t < life->commence_period_w || t > life->maturity_period_w || eq(life->paid_up,"C"))
       return 0.0;
if (fmod(xint(life->pol month(t-1)), xint(12. / life->prem freq))!=0)
       return 0.0; //not a premium due date
return premium(t) + pol_fee(t) - premium_disc_no_scen(t);
6.1.1.6.1.31
                 premium
if (t < life->commence period w || t > life->maturity period w || eq(life->paid up, "C"))
       return 0.0;
if (fmod(xint(life->pol_month(t-1)), xint(12. / life->prem_freq))!=0)
       return 0.0; //not a premium due date
if (eq(life->ben_class,"dd"))
       return (premium_if_b(t) + premium_if_b_2(t)) / life->prem_freq;
//else
return premium_if_b(t) / life->prem_freq;
6.1.1.6.1.32
                 premium_disc
if(eq(life->paid_up, "C"))
       return 0.;
double temp total = 0.0;
double temp = 0.0;
double temp1 = 0.0;
double temp2 = 0.0;
double temp3 = 0.0;
double temp4 = 0.0;
double temp5 = 0.0;
//log_strm<<"prem_disc_perc term3: "<<li>!ife->prem_disc_perc<<endl;</pre>
if (t <= life->prem disc month)
       temp = life->prem_disc_perc/100.; // Premium discount
if (t <= life->prem_disc_month_2)
```

```
temp = temp + life->prem_disc_perc_2/100.; // Premium discount
if (life->dump_vars == "Y")
                 log_strm<<"Temp at time "<<t<": "<<li>ife->prem_disc_perc/100.<<", "<<li>life-
>prem_disc_perc_2/100.<<endl;
if ( life-> prem_disc_step > 0){
                 if (t <= life->prem_disc_step1_m)
                  temp1 = life->prem_disc_step1_r/100.; // Premium discount
                 if (t <= life->prem_disc_step2_m)
                 temp2 = life->prem_disc_step2_r/100.; // Premium discount
                if (t <= life->prem_disc_step3_m)
                 temp3 = life->prem_disc_step3_r/100.; // Premium discount
                if (t <= life->prem_disc_step4_m)
                  temp4 = life->prem_disc_step4_r/100.; // Premium discount
                 if (t <= life->prem_disc_step5_m)
                  temp5 = life->prem disc step5 r/100.; // Premium discount
}
if (life->dump vars == "Y")
                log\_strm<<"Disc steps at time "<<t<<": "<<temp1<<", "<<temp2<<", "<<temp3<<", "<<temp4<<", "<<temp4<</temp4<<", "<<temp4<<temp4<<temp4<<temp4<<temp4<<temp4<<temp4<<temp4<<temp4<<temp4<<temp4<<temp4<<temp4<temp4<<temp4<temp4<<temp4<temp4<<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<temp4<te
"<<temp5<<endl;
temp_total = min(temp + temp1 + temp2 + temp3 + temp4 + temp5 , 1.);
if (life->dump_vars == "Y")
                 log_strm<<"Total discount at time "<<t<<": "<<temp_total<<endl;</pre>
double margin = 0.0;
if (life->margin_add_discount == "Y")
                margin = prem_disc_scenario/100.;
temp_total = min(temp_total + margin, 1.);
double Shimur = 0.0;
if (life->prem_disc_shimur_flag == "Y")
                 Shimur = Shimur + life->prem disc shimur rate(t);
temp_total = min(temp_total + Shimur, 1.);
return temp_total * premium(t);
6.1.1.6.1.33
                                       premium_disc_no_scen
if(eq(life->paid_up, "C"))
                return 0.;
double temp_total = 0.0;
double temp = 0.0;
double temp1 = 0.0;
double temp2 = 0.0;
double temp3 = 0.0;
double temp4 = 0.0;
double temp5 = 0.0;
```

```
if (t <= life->prem_disc_month)
       temp = life->prem_disc_perc/100.; // Premium discount
if (t <= life->prem_disc_month_2)
       temp = temp + life->prem_disc_perc_2/100.; // Premium discount
if (life->dump_vars == "Y")
       log_strm<<"Temp at time "<<t<": "<<li>!ife->prem_disc_perc/100.<<", "<<li>life-
>prem_disc_perc_2/100.<<endl;
if ( life-> prem_disc_step > 0){
       if (t <= life->prem_disc_step1_m)
        temp1 = life->prem_disc_step1_r/100.; // Premium discount
       if (t <= life->prem_disc_step2_m)
        temp2 = life->prem_disc_step2_r/100.; // Premium discount
       if (t <= life->prem disc step3 m)
       temp3 = life->prem_disc_step3_r/100.; // Premium discount
       if (t <= life->prem_disc_step4_m)
        temp4 = life->prem_disc_step4_r/100.; // Premium discount
       if (t <= life->prem_disc_step5_m)
        temp5 = life->prem_disc_step5_r/100.; // Premium discount
}
if (life->dump_vars == "Y")
       log_strm<<"Disc steps at time "<<t<<": "<<temp1<<", "<<temp2<<", "<<temp3<<", "<<temp4<<",
"<<temp5<<endl;
temp_total = min(temp + temp1 + temp2 + temp3 + temp4 + temp5 , 1.);
if (life->dump vars == "Y")
       log_strm<<"Total discount at time "<<t<<": "<<temp_total<<endl;</pre>
return temp_total * premium(t);
6.1.1.6.1.34
                 premium_disc_no_shimur
if(eq(life->paid_up, "C"))
       return 0.;
double temp_total = 0.0;
double temp = 0.0;
double temp1 = 0.0;
double temp2 = 0.0;
double temp3 = 0.0;
double temp4 = 0.0;
double temp5 = 0.0;
if (t <= life->prem_disc_month)
       temp = life->prem_disc_perc/100.; // Premium discount
if (t <= life->prem_disc_month_2)
       temp = temp + life->prem_disc_perc_2/100.; // Premium discount
if ( life-> prem_disc_step > 0){
       if (t <= life->prem_disc_step1_m)
```

```
temp1 = life->prem_disc_step1_r/100.; // Premium discount
       if (t <= life->prem_disc_step2_m)
        temp2 = life->prem_disc_step2_r/100.; // Premium discount
       if (t <= life->prem_disc_step3_m)
        temp3 = life->prem_disc_step3_r/100.; // Premium discount
       if (t <= life->prem_disc_step4_m)
        temp4 = life->prem_disc_step4_r/100.; // Premium discount
       if (t <= life->prem_disc_step5_m)
        temp5 = life->prem_disc_step5_r/100.; // Premium discount
}
if (life->dump vars == "Y")
       log_strm<<"Disc steps at time "<<t<<": "<<temp1<<", "<<temp2<<", "<<temp3<<", "<<temp4<<",
"<<temp5<<endl;
temp total = min(temp + temp1 + temp2 + temp3 + temp4 + temp5 , 1.);
if (life->dump_vars == "Y")
       log_strm<<"Total discount at time "<<t<<": "<<temp_total<<endl;</pre>
double margin = 0.0;
if (life->margin_add_discount == "Y")
       margin = prem_disc_scenario/100.;
temp_total = min(temp_total + margin, 1.);
return temp_total * premium(t);
6.1.1.6.1.35
                 premium gross
if (t < life->commence_period_w || t > life->maturity_period_w)
       return 0.0;
if (eq(life->paid_up,"C"))
       return 0.0;
if (fmod(xint(life->pol_month(t-1)), xint(12. / life->prem_freq))!=0)
       return 0.0; //not a premium due date
return premium(t) + pol_fee(t) - premium_disc(t);
6.1.1.6.1.36
                 claims_inflation
if (t < 1 || t > life->maturity_period_w)
       return 1.0;
return min(life->claim_inflation_max/100.,claims_inflation(t-1) * (1.0 + claims_inflation_mthly));
6.1.1.6.1.37
                 claims_inpay
if (t <= life->commence_period_w || t > life->maturity_period_w)
       return 0.0;
if ((!eq(life->ben_class, "phi")&&(!eq(life->ben_class, "ltc")||!eq(life->paid_up, "C")))|| !eq(life-
>use_phi_claims_cf,"Y"))
       return NO AVG;
if (surv(t-1) < 0.000001)
```

```
return 0.0;
if(t-t_start >=0)
                   return claims_inpayment.sum_of_diagonal(t-t_start)
                          + premium_gross(t)/surv(t-1) * claims_inpay_rate.sum_of_diagonal(t-t_start);
return 0;
6.1.1.6.1.38
                                             claims_inpay_other
if (t <= life->commence_period_w || t > life->maturity_period_w)
                   return 0.0;
if ((!eq(life->ben_class,"phi")&&(!eq(life->ben_class,"ltc")||!eq(life->paid_up,"C")))|| !eq(life-
>use_phi_claims_cf,"Y"))
                   return NO_AVG;
if (surv(t-1) < 0.000001)
                   return 0.0;
return claims_inpay(t)-claims_inpay_q1(t)-claims_inpay_q2(t)-claims_inpay_q3(t)-claims_inpay_q4(t);
6.1.1.6.1.39
                                             claims_inpay_q1
if (t <= life->commence_period_w || t > life->maturity_period_w)
                   return 0.0;
 if \ ((!eq(life->ben_class,"phi")\&\&(!eq(life->ben_class,"ltc")||!eq(life->paid_up,"C")))|| \ !eq(life->ben_class,"phi")\&\&(!eq(life->ben_class,"ltc")||!eq(life->paid_up,"C")))|| \ !eq(life->ben_class,"phi")\&\&(!eq(life->ben_class,"ltc")||!eq(life->paid_up,"C")))|| \ !eq(life->ben_class,"phi")\&\&(!eq(life->ben_class,"ltc")||!eq(life->paid_up,"C")))|| \ !eq(life->ben_class,"ltc")|| \ !eq(life->paid_up,"C"))|| \ !eq(life->ben_class,"ltc")|| \ !eq(life->paid_up,"C"))|| \ !eq(life->paid_up,"C")|| \ !eq(life
>use_phi_claims_cf,"Y"))
                   return NO_AVG;
if (surv(t-1) < 0.000001)
                   return 0.0;
double temp1 = 0;
double temp2 = 0;
if (t-1>=0){
                   temp1 = claims_inpayment(1,t-1);
                   temp2 = claims_inpay_rate(1,t-1);
}
if (t-2>=0){
                   temp1 = temp1 + claims_inpayment(2,t-2);
                   temp2 = temp2 + claims_inpay_rate(2,t-2);
}
if (t-3>=0){
                   temp1 = temp1 + claims_inpayment(3,t-3);
                   temp2 = temp2 + claims_inpay_rate(3,t-3);
}
if(t-t start >=0)
                          + premium_gross(t)/surv(t-1) * temp2;
return 0;
```

if (t-8>=0){

temp1 = temp1 + claims_inpayment(8,t-8);

6.1.1.6.1.40 claims_inpay_q2 if (t <= life->commence_period_w || t > life->maturity_period_w) return 0.0; if ((!eq(life->ben_class, "phi")&&(!eq(life->ben_class, "ltc")||!eq(life->paid_up, "C")))|| !eq(life->use_phi_claims_cf,"Y")) return NO AVG; if (surv(t-1) < 0.000001)return 0.0; double temp1 = 0; double temp2 = 0; if (t-4>=0){ temp1 = claims_inpayment(4,t-4); temp2 = claims_inpay_rate(4,t-4); } if (t-5>=0){ temp1 = temp1 + claims_inpayment(5,t-5); temp2 = temp2 + claims inpay rate(5,t-5); } if (t-6>=0){ temp1 = temp1 + claims_inpayment(6,t-6); temp2 = temp2 + claims_inpay_rate(6,t-6); } if(t-t_start >=0) return temp1 + premium_gross(t)/surv(t-1) * temp2; return 0; 6.1.1.6.1.41 claims inpay q3 if (t <= life->commence_period_w || t > life->maturity_period_w) return 0.0; if ((!eq(life->ben_class,"phi")&&(!eq(life->ben_class,"ltc")||!eq(life->paid_up,"C")))|| !eq(life->use_phi_claims_cf,"Y")) return NO_AVG; if (surv(t-1) < 0.000001)return 0.0; double temp1 = 0; double temp2 = 0; if (t-7>=0){ temp1 = claims_inpayment(7,t-7); temp2 = claims_inpay_rate(7,t-7); }

```
temp2 = temp2 + claims_inpay_rate(8,t-8);
}
if (t-9>=0){
       temp1 = temp1 + claims_inpayment(9,t-9);
       temp2 = temp2 + claims_inpay_rate(9,t-9);
}
if(t-t_start >=0)
       return temp1
          + premium_gross(t)/surv(t-1) * temp2;
return 0;
6.1.1.6.1.42
                 claims_inpay_q4
if (t <= life->commence_period_w || t > life->maturity_period_w)
       return 0.0;
if ((!eq(life->ben_class, "phi")&&(!eq(life->ben_class, "ltc")||!eq(life->paid_up, "C")))|| !eq(life-
>use_phi_claims_cf,"Y"))
       return NO_AVG;
if (surv(t-1) < 0.000001)
       return 0.0;
double temp1 = 0;
double temp2 = 0;
if (t-10>=0){
       temp1 = claims_inpayment(10,t-10);
       temp2 = claims_inpay_rate(10,t-10);
}
if (t-11>=0){
       temp1 = temp1 + claims_inpayment(11,t-11);
       temp2 = temp2 + claims_inpay_rate(11,t-11);
}
if (t-12>=0){
       temp1 = temp1 + claims_inpayment(12,t-12);
       temp2 = temp2 + claims_inpay_rate(12,t-12);
}
if(t-t_start >=0)
       return temp1
          + premium_gross(t)/surv(t-1) * temp2;
return 0;
6.1.1.6.1.43
                 claims_rate_per
if (t<= life->commence_period_w || t > life->maturity_period_w)
       return 0.0;
if((eq(life->ben_class, "phi") || (eq(life->ben_class, "ltc") && eq(life->paid_up, "C"))) && life-
>use_phi_claims_cf == "Y" && t-t_start>=0)
       return claims_inpay_rate.sum_of_diagonal(t-t_start);
```

```
if(life->death_ben_w == "Y")
       return death_rate_dep(t) * surv(t-1);
return decrem_rate_dep(t) * surv(t-1);//Other
6.1.1.6.1.44
                 claims_rate_per_other
if (t <= life->commence_period_w || t > life->maturity_period_w)
       return 0.0;
if ((!eq(life->ben_class, "phi")&&(!eq(life->ben_class, "ltc")||!eq(life->paid_up, "C")))|| !eq(life-
>use_phi_claims_cf,"Y"))
       return NO_AVG;
if (surv(t-1) < 0.000001)
       return 0.0;
return claims_rate_per(t)-claims_rate_per_q1(t)-claims_rate_per_q2(t)-claims_rate_per_q3(t)-
claims_rate_per_q4(t);
6.1.1.6.1.45
                 claims_rate_per_q1
if (t <= life->commence_period_w || t > life->maturity_period_w)
       return 0.0;
if ((!eq(life->ben_class, "phi")&&(!eq(life->ben_class, "ltc")||!eq(life->paid_up, "C")))|| !eq(life-
>use_phi_claims_cf,"Y"))
       return NO_AVG;
if (surv(t-1) < 0.000001)
       return 0.0;
double temp1 = 0;
if (t-1>=0){
       temp1 = claims_inpay_rate(1,t-1);
}
if (t-2>=0){
       temp1 = temp1 + claims_inpay_rate(2,t-2);
}
if (t-3>=0){
       temp1 = temp1 + claims_inpay_rate(3,t-3);
}
if(t-t_start >=0)
       return temp1;
return 0;
```

temp1 = claims_inpay_rate(7,t-7);

temp1 = temp1 + claims_inpay_rate(8,t-8);

}

if (t-8>=0){

6.1.1.6.1.46 claims_rate_per_q2 if (t <= life->commence_period_w || t > life->maturity_period_w) return 0.0; $if \ ((!eq(life->ben_class,"phi")\&\&(!eq(life->ben_class,"ltc")||!eq(life->paid_up,"C")))|| \ !eq(life->ben_class,"phi")\&\&(!eq(life->ben_class,"ltc")||!eq(life->paid_up,"C")))|| \ !eq(life->ben_class,"phi")\&\&(!eq(life->ben_class,"ltc")||!eq(life->paid_up,"C")))|| \ !eq(life->ben_class,"phi")\&\&(!eq(life->ben_class,"ltc")||!eq(life->paid_up,"C")))|| \ !eq(life->ben_class,"ltc")|| \ !eq(life->paid_up,"C"))|| \ !eq(life->ben_class,"ltc")|| \ !eq(life->paid_up,"C"))|| \ !eq(life->paid_up,"C")|| \ !eq(life$ >use_phi_claims_cf,"Y")) return NO AVG; if (surv(t-1) < 0.000001)return 0.0; double temp1 = 0; if (t-4>=0){ temp1 = claims_inpay_rate(4,t-4); } if (t-5>=0){ temp1 = temp1 + claims_inpay_rate(5,t-5); } if (t-6>=0){ temp1 = temp1 + claims_inpay_rate(6,t-6); } if(t-t_start >=0) return temp1; return 0; 6.1.1.6.1.47 claims_rate_per_q3 if (t <= life->commence_period_w || t > life->maturity_period_w) return 0.0; if ((!eq(life->ben_class,"phi")&&(!eq(life->ben_class,"ltc")||!eq(life->paid_up,"C")))|| !eq(life->use_phi_claims_cf,"Y")) return NO_AVG; if (surv(t-1) < 0.000001)return 0.0; double temp1 = 0; if (t-7>=0){

```
}
if (t-9>=0){
       temp1 = temp1 + claims_inpay_rate(9,t-9);
}
if(t-t_start >=0)
       return temp1;
return 0;
6.1.1.6.1.48
                 claims_rate_per_q4
if (t <= life->commence_period_w || t > life->maturity_period_w)
       return 0.0;
if ((!eq(life->ben_class, "phi")&&(!eq(life->ben_class, "ltc")||!eq(life->paid_up, "C")))|| !eq(life-
>use_phi_claims_cf,"Y"))
       return NO_AVG;
if (surv(t-1) < 0.000001)
       return 0.0;
double temp1 = 0;
if (t-10>=0){
       temp1 = claims_inpay_rate(10,t-10);
}
if (t-11>=0){
       temp1 = temp1 + claims_inpay_rate(11,t-11);
}
if (t-12>=0){
       temp1 = temp1 + claims_inpay_rate(12,t-12);
}
if(t-t start >=0)
       return temp1;
return 0;
6.1.1.6.1.49
                 claims_total
if (t <= life->commence_period_w || t > life->maturity_period_w)
       return 0.0;
if ((eq(life->ben_class,"phi") || (eq(life->ben_class,"ltc") && eq(life->paid_up,"C"))) && life-
>use_phi_claims_cf == "Y")
       return claims_inpay(t);
if(life->death_ben_w=="Y")
       return death_rate(t) * sum_insured_if_b(t);
```

```
double margin = 0.0;
if (life->prod_code =="phi-mitriya" && life->margin_add == "Y")
       margin = life->margin_claim_cost_mitriya;
if (eq(life->ben_class,"dd")||eq(life->ben_class,"ltc"))
       return decrem_rate_dep(t) * sum_insured_if_b(t)
               + decrem_rate_dep(t) * sum_insured_if_b_2(t);
else
       return decrem_rate_dep(t) * sum_insured_if_b(t) * (1 + margin/100);
6.1.1.6.1.50
                 premium if b
if(t <= life->commence_period_w || (t + life->elapsed_months) > life->prem_term)
       return 0.0;
if(inlist(life->paid_up,"Y,C"))
       return 0.0;
double prem_temp = life->prem_curr;
double tat shnatiut = 1.0;
if (life->mod load in prem=="N")
       tat_shnatiut = (1 + life->tat_shnatiut_rate/100.);
if (life->prem_curr_changed == "N")
       prem_temp = prem_temp - life->policy_fee_if* life->policies_curr/max(1.0,life-
>benefits_curr);
// Calc increase for this month
double si_inc_pct = 0.0;
if (xint(life->pol_month(t)) == 1 && (t>0))
       si_inc_pct = life->sum_ins_inc(t) / 100.;
if(life->prem_lookup_temp=="N") {//level premium
       if (t == 1)
              return prem_temp * life->benefits_curr * (1+si_inc_pct) * tat_shnatiut;
       if (t > 1)
              return premium_if_b(t-1) * (1+si_inc_pct)* surv_per(t-1);
       // t<1
       if (surv per(t) == 0)
              return 0;
       else
              return premium_if_b(t+1) / surv_per(t);
}
double prate = 0.0;
double factor = 0.0;
if (t == 0){
       if (eq(life->prod_code,"mrtg-y") || life->prem_curr_changed == "Y")
              return prem_temp * life->benefits_curr * surv(t-1); /* check why no tat_shnatiut
here? */
       else
              return prem_temp * life->benefits_curr * surv(t-1) * tat_shnatiut;
}
```

```
if (xint(pol_sub_year(t)) == 1 && xint(life->pol_month(t)) == 1){
       life->tarif_spec_row_key= xstring(life->tarif);
       factor = atoi(life->prem_factor);
       life->charge_rate_tt_col=xstring(life->age_last(t));
       prate = life->prem_if_rates;
       // apply prem factor to adjust phi rates for murchav, PHI only at the moment
       if (life->use_tarif_spec_prems == "Y")
               prate=prate * factor/100.;
       prate = prate*(1+ life->health_occ_perc/100.);
       if (inlist(life->ben_class,"ltc,phi"))
               prate = prate * life->sum ins curr * life->benefits b prm(t)/life->prem rate scale w
                                * life->sum_ins_inc_acc(t);
       else
           prate = prate * sum_insured_if_b(t)/life->prem_rate_scale_w;
       tat_shnatiut = (1 + life->tat_shnatiut_rate/100.);
       return prate * tat_shnatiut;
}
if (t<0){
       if (life->gross_up_historic=="N" || (surv_per(t+1)<0.000001))</pre>
               return premium_if_b(t+1);
       else
               return premium_if_b(t+1) / surv_per(t+1);
       }
// t>0
return premium_if_b(t-1) * surv_per(t-1);
6.1.1.6.1.51
                 premium_if_b_2
if(t <= life->commence_period_w || (t + life->elapsed_months) > life->prem_term)
       return 0.0;
if (eq(life->ben class, "dd") && (surv(t-1) >0.0))
       return premium_if_b(t) * surv_2(t-1)/surv(t-1);
return 0.;
                 premium if e
6.1.1.6.1.52
if (t < life->commence period w || (t + life->elapsed months) >= life->prem term)
       return 0.0;
if (inlist(life->paid_up,"Y,C"))
       return 0.0;
if (t<0 && t == life->commence_period_w )
       return 0.0;
return premium_if_b(t+1);
6.1.1.6.1.53
                 sum_at_risk_if
// Sum at risk at end of period t for period t to t+1
```

```
if (t < life->commence_period_w || t + life->elapsed_months >= life->benefit_term)
       return 0.0;
return max(sum_insured_if_b(t+1) - reserve_basic(t), 0.);
6.1.1.6.1.54
                 sum_insured
if (t < life->commence_period_w || t > life->maturity_period_w)
       return 0.0;
double si_inc_pct = 0.0;
if(!eq(life->paid_up ,"C") && (xint(life->pol_month(t)) == 1) && (t > 0))
              si_inc_pct = life->sum_ins_inc(t) / 100.;
if(inlist(life->ben_class,"fib,phi,ltc")){//use claims cost
   double mult = 1. ;
       if(eq(life->ben_class,"FIB")) // calculate claims cost for FIB
              mult = (1 - pow(1+int_rate_res_mthly,t-life->maturity_period_w-1)) /
int_rate_res_mthly;
       else {
              if ((eq(life->ben_class,"phi") || (eq(life->ben_class,"ltc") && eq(life-
>paid_up,"C"))) && life->use_phi_claims_cf == "Y")
                             mult=1.;
              else {
              if (t > life->commence_period_w)
                                                   // claims cost from table
                      mult = claims_cost_factors(xint(life->age_last(t)),sexcode);
              else // (t= commence period)
                      mult = claims cost factors(xint(life->age last(t+1)),sexcode);//age last not
defined at comm. period
    } // end else
   return life->sum_ins_curr * life->benefits_curr * mult * life->sum_ins_inc_acc(t);
}
if (t == 0)
       return life->sum_ins_curr * life->benefits_curr;
if (t > 0){
       if (eq(life->ben_class,"mortg"))
              return sum_insured(t-1)*(1 + life->mortg_int_mth_w) - life->mortg_pmt_fix_w * life-
>benefits_curr;
       else
              return sum insured(t-1) * (1+si inc pct);
}
// t<0
if (eq(life->ben_class,"mortg"))
       return (sum_insured(t+1)+ life->mortg_pmt_fix_w * life->benefits_curr)/(1 + life-
>mortg_int_mth_w);
else
       return sum_insured(t+1) / (1+si_inc_pct);
                 sum insured if b
if (t <= life->commence_period_w || t > life->maturity_period_w)
       return 0.0;
```

```
if ((life->paid_up=="Y")&& eq(life->ben_class,"ltc")) // LTC paid-up cover in force uses secondary
sum-life->insured
       return 0.0;
return sum_insured(t) * surv(t-1);
6.1.1.6.1.56
                 sum insured if b 2
if (t <= life->commence_period_w || t > life->maturity_period_w)
       return 0.0;
if (eq(life->ben_class,"dd"))
       return sum_insured(t-1) * surv_2(t-1);
// for LTC (siluk)
if (eq(life->ben_class,"ltc")) {
       if (t <= 1) {
               if (life->paid_up=="Y")
                                           // LTC paid-up cover in force
                      return sum_insured(t);
               else
                      return 0.;
}
       // get current PUV factor
       double temp = 0;
       if (!eq(pup_ltc_key,"0"))
              temp = pup_ltc_tbl;
       double siluk_factor = 0.0;
       if (temp >0) { // only if PUV already exists according to policy term, then interpolate to
get factor for policy month
               double temp_next = pup_ltc_tbl_next;
               siluk_factor = (12. - life->pol_month(t-1))/12. * temp
                                              + life->pol_month(t-1)/12. * temp_next;
       }
       return ( sum_insured_if_b_2(t-1)
               * (1. - death rate(t-1))
               * (1. - decrem_rate(t-1))
              + sum_insured_if_b(t-1) // addition for new silukim
              * siluk_factor/1000.
              * lapse_rate(t-1) )
               * sum_insured(t)/sum_insured(t-1);
}
return 0;
6.1.1.6.1.57
                 sum_insured_if_b_2_no_dec
if (t <= life->commence_period_w || t > life->maturity_period_w)
       return 0.0;
if (eq(life->ben class, "dd"))
       return sum_insured(t-1) * surv_2_no_dec(t-1);
// for LTC (siluk)
if (eq(life->ben_class,"ltc")) {
       if (t <= 1) {
```

```
if (life->paid_up=="Y")
                                            // LTC paid-up cover in force
                      return sum_insured(t);
              else
                      return 0.;
}
       // get current PUV factor
       double temp = 0;
       if (!eq(pup_ltc_key,"0"))
              temp = pup_ltc_tbl;
       double siluk_factor = 0.0;
       if (temp >0) { // only if PUV already exists according to policy term, then interpolate to
get factor for policy month
              double temp_next = pup_ltc_tbl_next;
              siluk_factor = (12. - life->pol_month(t-1))/12. * temp
                                              + life->pol month(t-1)/12. * temp next;
       }
       return ( sum_insured_if_b_2_no_dec(t-1)
              * (1. - death_rate(t-1))
              + sum_insured_if_b_no_dec(t-1) // addition for new silukim
              * siluk_factor/1000.
              * lapse_rate(t-1) )
              * sum_insured(t)/sum_insured(t-1);
}
return 0;
6.1.1.6.1.58
                 sum insured if b no dec
if (t <= life->commence_period_w || t > life->maturity_period_w)
if ((life->paid_up=="Y")&& eq(life->ben_class,"ltc")) // LTC paid-up cover in force uses secondary
sum-life->insured
       return 0.0;
return sum_insured(t) * surv_no_dec(t-1);
6.1.1.6.1.59
                 sum insured if b no dth
if (t <= life->commence_period_w || t > life->maturity_period_w)
       return 0.0;
if ((life->paid_up=="Y")&& eq(life->ben_class,"ltc")) // LTC paid-up cover in force uses secondary
sum-life->insured
       return 0.0;
return sum_insured(t) * surv_no_dth(t-1);
6.1.1.6.1.60
                 pup Itc col
return xint((life->elapsed_months+t-2)/12.);
6.1.1.6.1.61
                 pup_ltc_col_next
return xint((life->elapsed_months+t-1)/12.)+1;
```

```
6.1.1.6.1.62
                 claims re
if (t <= life->commence period w || t > life->maturity period w || life->reinsurance=="N" ||
eq(life->re_type,"NONE"))
       return 0.0;
return claims_total(t) *(life->re_ratio_w );
6.1.1.6.1.63
                 comm re
if (t <= life->commence_period_w || t > life->maturity_period_w || eq(life->re_type,"NONE"))
       return 0.0;
double res = 0.0; //regular commission
int yr;
if (atof(life->comm_by_cal)==1)
       yr=xint(life->cal_duration(t)+1);
else
       yr=xint(life->pol_year_ext(t));
res = life->comm_ren_re[yr] / 100. * premium_re(t) ;
return res;
6.1.1.6.1.64
                 comm re prof
if (t <= life->commence_period_w || t > life->maturity_period_w ||eq(life->paid_up,"C"))
       return 0.0;
return max(0,life->comm_prof_re / 100. * profit_re(t)) ;
6.1.1.6.1.65
                 exp re nom
if (t <= life->commence_period_w || t > life->maturity_period_w || life->reinsurance=="N" ||
eq(life->re_type, "NONE"))
       return 0.0;
return life->expense_re_nom_temp / 100. * premium_re(t);
6.1.1.6.1.66
                 interest re
// Investment income in the period
if (t <= life->commence_period_w || t > life->maturity_period_w)
       return 0.0;
if (life->interest_re_calculate=="N")
       return 0.0;
int proj_yr = xint(life->proj_year(t));
if(eq(life->projection_type_int, "Rollup"))
               proj_yr = xint(life->proj_year_rollup(t));
proj_yr = max(proj_yr, 0);
if (eq(life->paid_up, "C")) {
       if (life->elapsed_months <= 24 || (life->elapsed_months > 24 && !eq(life->par_nonpar,"P")))
               return int_rate_res_mthly * (reserve_re(t-1));
```

```
else //Participating
                      return (life->inv_rate_mth_t[proj_yr]) * (reserve_re(t-1)); }
else
              return int_rate_res_mthly * (reserve_re(t-1));
6.1.1.6.1.67
                 premium if b re
if (t <= life->commence_period_w || t > life->maturity_period_w)
       return 0.0;
if(life->reinsurance=="N" ||life->paid_up=="C")
       return 0.0;
if(eq(life->re_type,"simple")){
       return life->prem_freq * claims_re(t) * (1.0 + life->re_cost_perc/100.0);
}
if (xint((life->pol_month(t)) != 1) && (t>12))
       return premium_if_b_re(t-1)*surv_per(t-1);
if (eq(life->re_type,"NONE") || (life->re_ratio_w==0.0))
       return 0.0;
double prem_re = 0.0;
double prate = 0.0;
//Premium lookup definitions
if(eq(life->re_type,"YRT")){
prate = life->prem_rates_re * (1+ max(life->health_occ_perc_min,life->health_occ_perc)/100.) +
life->prem_per_unit_si_re;
       if (inlist(life->ben_class,"ltc,phi")) // *** not good with monthly SI, life->prem_freq,
etc. ?
              prem_re = prate * life->sum_ins_curr * life->benefits_b_prm(t)/life-
>prem_rate_scale_w
                                           *( life->re ratio w) * life->sum ins inc acc(t);
       else
              prem_re = prate/life->prem_rate_scale_w * sum_insured_if_b(t)*( life->re_ratio_w);
}
if(eq(life->re type,"OT"))
       prem_re = premium_if_b(t) * (life->re_ratio_w);
return prem re;
6.1.1.6.1.68
                 premium_re
if (t < life->commence_period_w || t > life->maturity_period_w)
       return 0.0;
if (fmod(xint(life->pol month(t-1)), xint(12. / life->prem freq))!=0)
       return 0.0; //not a premium due date
```

```
return premium_if_b_re(t) * atof(life->prem_re_mult) / life->prem_freq;
6.1.1.6.1.69
                profit re
if (t <= life->commence_period_w || t > life->maturity_period_w)
       return 0.0;
if (t==0)
       return 0.0;
return premium_re(t) - claims_re(t) - exp_re_nom(t)
       - comm_re(t)
       + interest_re(t)
       - reserve_re_increase(t);
6.1.1.6.1.70
                reserve_re
if (t <= life->commence_period_w || t >= life->maturity_period_w || eq(life->re_type,"NONE") ||
(life->re_ratio_w==0.0) || life->reinsurance=="N" || eq(life->re_type, "simple"))
       return 0.0;
double res_re1 = 0.0; //quota share reinsurance part
double res_re2 = 0.0; // claims reserves part
//Quota share reinsurance - res_re1
if(eq(life->re_type,"OT"))
       res_re1 = (reserve_basic(t)+ err(t)) * (life->re_ratio_w);
if (inlist(life->ben_class,"phi,ltc") && eq(life->use_phi_claims_cf,"Y"))
       res re2 = reserve basic claims(t)*(life->re ratio w);
return res_re1 + res_re2 ;
6.1.1.6.1.71
                reserve_re_increase
if (t <= life->commence period w || t > life->maturity period w)
       return 0.0;
if (life->reserve re increase calculate=="N")
       return 0.0;
return reserve_re(t) - reserve_re(t-1);
6.1.1.6.1.72
                startup
if (life->submodel != "TERM")
       return 0:
set_other_variables();
// Calculate fixed payback for mortgage
if (eq(life->ben_class,"mortg")){
       life->mortg_int_mth_w = monthly_rate(life->mortg_int);
       double v = 1/(1 + life->mortg_int_mth_w);
       double a_n = (1 - pow(v,life->benefit_term))/life->mortg_int_mth_w;
```

```
if (a_n != 0)
              life->mortg_pmt_fix_w = life->sum_ins_curr / a_n ;//monthly level payback
       // calculate current sum-life->insured
       if (life->elapsed_months > 0) {
              a_n = (1 - pow(v,life->maturity_period_w))/life->mortg_int_mth_w;
              life->sum_ins_curr = a_n * life->mortg_pmt_fix_w;
       }
}
if (eq(life->done_startup_w, "false")){
       validate data();
       life->done_startup_w = "true";
}
if ((eq(life->ben_class,"phi") || (eq(life->ben_class,"ltc") && eq(life->paid_up,"C"))) && life-
>use_phi_claims_cf == "Y"){
       claims inpay rate.resize(temp tbl size, temp tbl size);
       claims_inpayment.resize(temp_tbl_size, temp_tbl_size);
       claims_inpay_pv.resize(temp_tbl_size, temp_tbl_size);
       claims_inpay_res.resize(temp_tbl_size, temp_tbl_size);
       claims_inpay_rate_pv.resize(temp_tbl_size, temp_tbl_size);
       claims_inpay_res_factor.resize(temp_tbl_size, temp_tbl_size);
return 0.0;
6.1.1.6.1.73
                 pol_sub_year
if (t < life->commence_period_w || t > life->maturity_period_w)
       return NO_AVG;
if(life->prem_lookup_temp=="N" || life->prem_lookup_freq_temp == 0) //level premium
       return life->pol_year(t);
//YRT or stepped premium
if (xint(fmod(xint(life->pol_year(t)),life->prem_lookup_freq_temp)) == 0)
       return life->prem_lookup_freq_temp;
else
       return fmod(xint(life->pol_year(t)),life->prem_lookup_freq_temp);
6.1.1.6.1.74
                 proj month
if (t < life->commence_period_w || t > life->maturity_period_w)
       return NO_AVG;
if (t == 0)
       return NO_AVG;
int result = xint(fmod(t, 12));
if (result == 0) {
       if (t > 0)
              result = 12;
       else
              result = -12;
return result;
```

6.1.1.6.2 External Functions

6.1.1.6.2.1 monthly_rate

```
double monthly rate(double annual rate) {
       return (pow(1. + annual_rate / 100. , 1. / 12.) - 1.);
6.1.1.6.2.2
                 set_other_variables
void set_other_variables (void) {
int mth=0, year=0, i=0;
double total=0.0,mult=0.0;
// set Capital requirement as a percentage of DAC-Books
if (life->dac_cap_apply=="N")
       life->dac_cap_perc_w = 0.0;
else {
       if (life->prod_yr_w < 1999)</pre>
              life->dac_cap_perc_w = 0.0;
       if (life->prod_yr_w >= 1999)
              life->dac_cap_perc_w = 30.0;
       if (life->prod_yr_w >= 2004)
              life->dac_cap_perc_w = 100.0;
}
if(eq(life->ben class,"ltc"))
       pup_ltc_key = life->prod_code + "_" + life->sex;
// calculate maximum age in claims rates table
life->omega_age_w = life->omega_age_cmi; // max age in rows of CMI table
   if(life->death_ben_w=="N")
          life->omega_age_w = life->omega_age_dec; //max age in rows of decrement tables
{
       life->prem_term = min(life->prem_term_input*12,life->benefit_term);
       if (eq(life->ben_class,"mortg") && life->prem_lookup_temp=="N") // shoham kavua
               life->prem term = life->benefit term - 36;
       if (eq(life->ben_class,"fib")) // bareket
               life->prem_term = life->benefit_term - 36;
}
if (life->maturity_period_w >= 12*xint(t_high/12.)) {
       log_strm << "maturity_period_w: " << life->maturity_period_w << endl;</pre>
       log_strm << "valuation_high_w: " << 12*xint(t_high/12.) << endl;</pre>
       log_strm << "policy: " << life->pol_number << endl;</pre>
       throw("Benefit Term exceeds projection period, rerun with larger t_high\n ");
}
// for a rollup run, allow for extra elapsed months
if (eq(life->projection_type, "Rollup") && (life->elapsed_months+life->elapsed_months_extra<=12)) {
       life->commence_period_w = -(life->elapsed_months+life->elapsed_months_extra);
       life->benefit_term = life->maturity_period_w - life->commence_period_w ;
life->mat_period_min = life->maturity_period_w;
```

```
// For net bonus calc. of phi claims in payment
if (life->par_nonpar=="P" && inlist(life->ben_class, "phi,ltc") && eq(life-
>use_phi_claims_cf,"Y")){
      for (i=0; i<=119.;i++){
              inv_rate_clm_mth_t[i] = life->inv_rate_mth_t[i];
       mgt_fee_var_clm =life->var_mgt_fee;
       mgt_fee_fixed_clm =life->fixed_mgt_fee_term;
// For phi level and ltc (pre2004) remove interest income would should go to bonus
if (life->par_nonpar=="P" && (eq(life->prod_code, "phi-1") || eq(life->ben_class, "ltc"))&& !eq(life-
>paid_up, "C")) {
       life->mgt_fee_variable =life->var_mgt_fee;
       life->mgt_fee_fixed =life->fixed_mgt_fee_term;
       for (i=0; i<=119.;i++){}
              if (eq(life->ben_class, "ltc")) // for LTC reduce bonus by 50% as bonus only paid on
ltc claim
                     life->inv_rate_mth_t[i] = life->inv_rate_mth_t[i] -
                            ((life->inv_rate_mth_t[i] - life->mgt_fee_fixed/1200)
                            * (1-life->mgt fee variable/100) - int rate res mthly ) * 0.5;
              else
                     life->inv_rate_mth_t[i] = life->inv_rate_mth_t[i] -
                            ((life->inv_rate_mth_t[i] - life->mgt_fee_fixed/1200)
                            * (1-life->mgt_fee_variable/100) - int_rate_res_mthly );
              } //end for loop
       } // end if
life->v_month_w = 1. / (1. + monthly_rate(life->ev_disc_rate));
// if discount type = Single, then replace the discount rate vector with the input value
if (eq(life->ev_discount_rate_type, "Single")) {
       for (i=0; i<=119.;i++){}
              life->v_month_t[i] = life->v_month_w;
       }
// ******* set commission variables *******
// reduction for short premium terms (2n)
mult = 1.;
if(life->comm_min_prem_term > 0 || eq(life->ben_class,"ltc")){
       if (eq(life->ben_class,"ltc")) { // special reducing formula for LTC with old entry age
              if (life->age_at_issue>=65)
                     mult = (110. - life->age_at_issue)/50.;
              else
                     mult = 1.;
       else
              mult = life->prem term/life->comm min prem term;
       mult = min(1.,mult);
       for(i = 0; i < 116; i + +){
              life->comm_regular_pc[i] = life->comm_regular_pc[i]* mult;
       }
```

```
}
// set total % of init reg comm
double comm_tot = 0.;
for (i=0; i<115; i++)
       comm_tot = comm_tot + life->comm_regular_pc[i];
life->comm_reg_tot_w = comm_tot;
// Set DAC amortisation period
if(eq(life->dac_amort_type,"Lifetime"))
       life->dac_amort_per = life->prem_term;
if(life->dac_amort_per > life->prem_term)
       life->dac amort per = life->prem term;
if(life->dac_amort_per_tax > life->prem_term)
       life->dac_amort_per_tax = life->prem_term;
// close function
}
6.1.1.6.2.3
                 validate_data
void validate_data(void) {
if (life->prem term > life->benefit term)
       life->error_msg = "prem_term_>_ben_term";
if (pv_period != 12)
       throw NonFatalError("Template set up for monthly projections. Change the discount period in
the projection task.");
if (eq(life->projection_type,"Valn") && life->elapsed_months < 0)</pre>
       life->error_msg = "elapsed_months_<_0";</pre>
if (life->elapsed_months > life->benefit_term)
       life->error_msg = "elapsed_months_>_ben_term";
if (12 % life->prem_freq != 0.0) // premium frequency must be a multiple of 12 and must not be zero
whilst premiums are being paid.
       throw NonFatalError("Premium frequency must be 1, 2, 3, 4, 6, or 12.");
if ((life->prem_freq == 0 || eq(life->paid_up,"Y")) && (life->promil >0.3) && !eq(life-
>ben_class,"ltc"))
       life->error msg = "paid up";
if (life->sum_ins_curr <= 0.0001)</pre>
       life->error_msg = "Sum_Insured_<=_0";</pre>
if (eq(life->res_basis,"Net_Prem") && eq(life->prem_lookup_temp,"Y") && life-
>prem_lookup_freq_temp==1)
       throw NonFatalError("Cannot have a Net Premium Reserve for YRT product (Product Code:
"+life->prod_code+")");
// close function
}
6.1.1.6.3 Temporary Tables
```

6.1.1.6.3.1 claims_inpay_res

// Present value of future claims payment by projection months(row) and duration (column)

```
if ((!eq(life->ben_class, "phi")&&(!eq(life->ben_class, "ltc")||!eq(life->paid_up, "C")))|| !eq(life-
>use_phi_claims_cf,"Y"))
       return 0;
if (r == 0)
       return 0.0;
if (eq(life->projection_type, "Rollup")&& (r < wp_phi))</pre>
       return 0.0;
// reserve factor for שלב השלמת is fixed to 2
if(eq(life->prod_code ,"phi-k-fra"))
       return (claims_inpayment(r,c) + premium_gross(r)*claims_inpay_rate(r,c)) * 2;
if (r+c == temp_tbl_size-1)
       return 0.0;
if (c<wp_phi && !eq(life->paid_up,"C")) {
       double rate = 2.5;
               if (life->year_start <= 1992)</pre>
                      rate = 4;
       double disc_factor = 1. / (1. + monthly_rate(rate));
       if (life->phi_res_discount_rate_type == "RF")
               disc_factor = life->v_month_t[xint((r+c +t_start-1)/12) +1];
       return claims_inpay_res(r,c+1)*disc_factor; }
return (claims_inpayment(r,c) + premium_gross(r)*claims_inpay_rate(r,c)) *
claims_inpay_res_factor(r,c);
6.1.1.6.3.2
                 res cx
// Commutation Function Cx = v^(x+1) * (lx - l(x+1))
// based on average sum life->insured during the next year (Cx bar)
// r = current age in years
double d=0.0;
double decrem =0.0;
if (life->death ben w=="Y")
       d = res_lx(r,0) - res_lx(r+1,0); //deaths
else {
       life->row_num = r;
       if (eq(life->use_uw_date,"Y"))
               decrem = life->decrem_rates_uw_res;
       else
               decrem = life->decrem_rates_res;
       d = res_lx(r,0) * decrem * life->decrem_mult_res/100. * (1.+max(life-
>health_occ_perc_min,life->health_occ_perc)/100.);
}
int tee = xint((r-life->age_at_issue)*12.) - life->elapsed_months + 1;
```

```
if (d>0.0){
       if (tee <= t_high && r<life->omega_age_w && tee>=life->commence_period_w && tee+6<=life-
>maturity_period_w){
               if (eq(life->ben_class,"phi") && eq(life->use_phi_claims_cf,"Y"))
                      d = d *
(sum_insured(tee+5)*claims_cost_factors(r,sexcode)+sum_insured(tee+6)*claims_cost_factors(r,sexcode
))/2.* life->claims_cost_multiplier;
               else
                      d = d * (sum_insured(tee+5)+sum_insured(tee+6))/2.; // sum insured in middle
of next year
               }
       else
               d = 0.0;
}
return d * res_vx(r+1,0);
6.1.1.6.3.3
                 res_dx
// Commutation Function Dx Yearly Dx = 1x * v^x
// r = current age in years
if (r > life->omega_age_w) //omega_age from underlying table
       return 0.0;
return res_lx(r, 0) * res_vx(r,0);
6.1.1.6.3.4
                 res_lx
// Commutation Function lx
if (r \ll 0)
       return 100.0;
double decrem=0.0;
if (r > life \rightarrow omega\_age\_w) { // omega age allows for table adjustment
       if (life->death_ben_w=="Y") {
               return 0.0; // all die
       }
       else {
               life->row_num = life->omega_age_w;
               if (eq(life->use_uw_date,"Y"))
                      decrem = life->decrem_rates_uw_res;
               else
                      decrem = life->decrem_rates_res;
               return res_lx(r-1, 0) // decrement rates do not have to occur (like death)
                      * (1. - decrem * life->decrem_mult_res/100.)
                      * (1+max(life->health occ perc min,life->health occ perc)/100.);
       }
}
double q=0.0;
double q_i=0.0;
life->row_num = r-1;
q =life->death_rates_res_tbl;
```

```
q = q +life->mort_addn_res/1000.;
if ((life->death_ben_w=="Y")) {
       q_i = 0.0;
}
else {
       life->row_num = r - 1;
       if (eq(life->use_uw_date,"Y"))
                      decrem = life->decrem_rates_uw_res;
       else
                      decrem = life->decrem_rates_res;
       q i = decrem * life->decrem mult res/100.
       * (1+max(life->health_occ_perc_min,life->health_occ_perc)/100.);
}
return res_lx(r-1, 0) * (1. - q)*(1. - q_i);
6.1.1.6.3.5
                 res_mx
if (r>life->omega_age_w)
       return 0.0;
if (r==life->omega_age_w)
       return res_cx(r,0);
return res_cx(r,0) + res_mx(r+1,0);
6.1.1.6.3.6
                 res_nx
//Nx
if (r >= life->omega_age_w)
       return res_dx(r, 0);
return res_nx(r+1, \theta) + res_dx(r, \theta);
6.1.1.6.3.7
                 res_vx
// Commutation Function vx = v^(x)
// r = current age in years
//TYPE ALL
if (r<=0)
       return 1.0;
return res_vx(r-1,0)/(1.+life->int_rate_res/100.);
6.1.1.6.3.8
                 claims_cost_factors
// claims cost factors by age (rows) and life->sex (columns)
// age is 0 to 100
// Sex, 0=male, 1=females
xstring sex2 = "M";
if (c==1)
       sex2="F";
```

```
double rate=0.0;
if (eq(life->ben_class,"phi") || eq(life->ben_class,"ltc")) {      // new claims cost format
    life->key_temp = life->claims_cost_key;
       life->series_col_key = xstring(r);
       rate = life->claims_cost_factors_tbl;
       if(rate!= 9999999. && rate!=10000000.)
              return rate * life->claims_cost_multiplier;
       if(rate== 9999999.)
              return 0.0;
       if(rate==10000000.)
              throw NonFatalError("Key " + life->claims_cost_key + " not found in claims cost
table.");
}
else { //previous claims cost format
       life->key_temp = xstring(r);
       life->series_col_key = sex2;
       rate = life->claims_cost_factors_tbl;
       if(rate!= 9999999. && rate!=10000000.)
              return rate;
       if(rate==10000000.)
              return 0.0;
       if(rate== 9999999.)
              throw NonFatalError("Error looking up .... "+ xstring(r) + ", "+sex2+ ", in
claims_cost_factors_tbl");
}
return 0.0;
6.1.1.6.3.9
                 claims_inpay_pv
// Present value of future claims payment by projection months(row) and duration (column)
// Rows are projection months
// Columns are duration (in months) of claim.
if (t <= life->commence_period_w || t > life->maturity_period_w)
       return 0.0;
if ((!eq(life->ben_class, "phi")&&(!eq(life->ben_class, "ltc")||!eq(life->paid_up, "C")))|| !eq(life-
>use_phi_claims_cf,"Y"))
       return 0;
if (r \ll 0)
       return 0.0;
if(r+c == temp_tbl_size-1)
       return (claims_inpayment(r,c)) *life->v_month_t[xint((r+c +t_start-1)/12) +1];
```

```
return (claims_inpay_pv(r,c+1)+claims_inpayment(r,c)) *life->v_month_t[xint((r+c+t_start-1)/12)
+1];
6.1.1.6.3.10
                 claims_inpay_rate
// claims in payment rates by projection months(row) and duration (column)
if ((!eq(life->ben_class, "phi")&&(!eq(life->ben_class, "ltc")||!eq(life->paid_up, "C")))|| !eq(life-
>use_phi_claims_cf,"Y"))
       return 0;
if (r==0)
       return 0.0;
if((r < 1) && !eq(life->prod_code, "phi-k-fra") && !eq(life->paid_up, "C"))
       return 0.0;
if((c >= 3+wp_phi) && eq(life->prod_code ,"phi-k-fra"))
       return 0.0;
if (c<wp_phi && !eq(life->paid_up, "C")) return 0.0;
int durn = c-wp phi;
int age = life->age_last(max(r+t_start,life->commence_period_w+1));
if (life->paid_up =="C"){
       if (c==0){
              if((r)==1)
                      return 1.;
              return 0.;
       }
       durn = c + life->elapsed_months-1;
       age =life->age_at_issue;
}
if (c==wp_phi && !eq(life->paid_up, "C")){
       double clm_rate = 0.0;
       clm_rate = claims_inpay_rate.sum_of_diagonal(r+wp_phi-1);
       return max(decrem_rate_dep(max(r + t_start,life->commence_period_w+1))
                      * life->claims cost multiplier
                      *(surv(r+t_start+wp_phi -1)- clm_rate),0);
       }
life->recovery_rates_row = min(max(age,18),67);
life->recovery_rates_col = durn;
double termination_rate = life->recovery_rates_tbl;
//***** add margin recovery rates**********
if (life->margin_add=="Y")
       termination_rate = termination_rate * (1+life->margin_recover/100);
```

return claims_inpay_rate(r,c-1) *(1.- termination_rate);

double claims_rate = claims_inpay_rate(r,c);

if (claims_rate == 0) return 0.0;

6.1.1.6.3.11 claims_inpay_rate_pv if (t <= life->commence_period_w || t > life->maturity_period_w) return 0.0; if ((!eq(life->ben_class, "phi")&&(!eq(life->ben_class, "ltc")||!eq(life->paid_up, "C")))|| !eq(life->use_phi_claims_cf,"Y")) return 0; if $(r \ll 0)$ return 0.0; double rate = 2.5; if (life->year_start <= 1992)</pre> rate = 4; double disc_factor = 1. / (1. + monthly_rate(rate)); if (life->phi_res_discount_rate_type == "RF") disc_factor = life->v_month_t[xint((r+c +t_start-1)/12) +1]; if(r+c >= temp tbl size-1)return (claims_inpay_rate(r,c)) * disc_factor; return (claims_inpay_rate_pv(r,c+1)+claims_inpay_rate(r,c)) * disc_factor; 6.1.1.6.3.12 claims_inpay_res_factor if (t <= life->commence period w || t > life->maturity period w) return 0.0; if ((!eq(life->ben_class, "phi")&&(!eq(life->ben_class, "ltc")||!eq(life->paid_up, "C")))|| !eq(life->use phi claims cf,"Y")) return 0; if (r <= 0)return 0.0; if(r+c == temp_tbl_size-1) return 0.0; if (c<wp_phi && !eq(life->paid_up,"C")) { double rate = 2.5; if (life->year_start <= 1992)</pre> rate = 4;double disc_factor = 1. / (1. + monthly_rate(rate)); if (life->phi_res_discount_rate_type == "RF") disc factor = life->v month t[xint((r+c +t start-1)/12) +1]; return claims_inpay_res_factor(r,c+1)*disc_factor; }

```
return claims_inpay_rate_pv(r,c)/claims_rate;
6.1.1.6.3.13
                 claims_inpayment
// claims in payment by projection months(row) and duration (column)
// Rows are projection months
// Columns are duration (in months) of claim.
if ((!eq(life->ben_class, "phi")&&(!eq(life->ben_class, "ltc")||!eq(life->paid_up, "C")))|| !eq(life-
>use_phi_claims_cf,"Y"))
       return 0;
double payment=0.0;
int bonus_WP = 24;
int curr_dur = life->elapsed_months;
if( !eq(life->paid_up ,"C")){
payment = claims_inpay_rate(r,c) *sum_insured(r+t_start+wp_phi);
//Bonus payments from 25th month for participation
if(life->par_nonpar=="P" && c >= bonus_WP+wp_phi)
       payment = payment * (1 + bonus_rate_acc_mthly(r+t_start+c))/(1 +
bonus_rate_acc_mthly(r+wp_phi+t_start+bonus_WP-1));
return payment;
//If already Claims in payment
if (r > 1)
       return 0.;
payment = claims_inpay_rate(r,c) * sum_insured(r+t_start);
if(life->par_nonpar=="P"){
       if( c==0 || c + curr_dur < bonus_WP)</pre>
              return payment;
       if(curr_dur >= bonus_WP)
              return payment * pizui_prop_pup_stat_c * (1 + bonus_rate_acc_mthly(r+t_start+c-1)) +
payment * (1-pizui_prop_pup_stat_c);
       return payment * pizui_prop_pup_stat_c * (1 + bonus_rate_acc_mthly(r+t_start+c))/(1 +
bonus_rate_acc_mthly(r+t_start+bonus_WP-curr_dur-1)) + payment * (1-pizui_prop_pup_stat_c);
}
return payment;
6.1.1.6.4 Scalars
6.1.1.6.4.1
                 claims_inflation_mthly
return monthly_rate(life->claim_inflation_perc);
6.1.1.6.4.2
                 interest_rein_mthly
return monthly_rate(life->interest_rein);
```

6.1.1.6.4.3 sexcode

```
if (life->sex=="F")
    return 1;
```

```
return 0;
6.1.1.6.4.4
                 t_start
if ((eq(life->ben_class,"phi") || (eq(life->ben_class,"ltc") && eq(life->paid_up,"C"))) && life-
>use_phi_claims_cf == "Y"){
       if (eq(life->projection_type,"Rollup")) // Assume that always rollup for 1 year
               return max(-11,life->commence period w +1);
       return 0;
}
return 0;
6.1.1.6.4.5
                 temp_tbl_size
if ((eq(life->ben_class,"phi") || (eq(life->ben_class,"ltc") && eq(life->paid_up,"C"))) && life-
>use_phi_claims_cf == "Y") {
       if (eq(life->projection_type, "Rollup")) // Assume that always rollup for 1 year
               return min(life->benefit_term,life->benefit_term +life->commence_period_w + 11) ;
       return max(life->maturity_period_w+1,1);
return 0;
6.1.1.6.4.6
                 wp_phi
int temp = 0;
if (eq(life->ben_class,"phi")&& (life->use_phi_claims_cf=="Y")){
       life->tarif_spec_row_key= xstring(life->tarif);
       temp= atoi(life->waiting_period_modeled);
       if (temp!= 1 && temp!= 3 && temp != 6)
                      temp = 3;
       }
return temp;
6.1.1.6.4.7
                 int_rate_res_hy
return pow(1. + life->int_rate_res/100., 0.5);
6.1.1.6.4.8
                 int_rate_res_mthly
return pow(1. + life->int_rate_res/100., 1/12.)-1.0;
```

6.1.2 Externs

<No Externs Exist>

6.2 Lookup Settings

6.2.1 Input Manager: Input Manager

6.2.1.1 Input Page: Annuity

6.2.1.1.1 Assumption Set: Base

6.2.1.1.1.1 res_prop_data

Description: Tzeva Kesef

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: res_prop_key	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: pol_number	Absolute	Character	Not Applicable	Value Of: - 9999	Not Applicable	
N/A	Code Variable: life: fund	Absolute	Character	Not Applicable	Value Of: - 9999	Not Applicable	
N/A	Code Variable: life: ben_class	Absolute	Character	Not Applicable	Value Of: - 9999	Not Applicable	

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: policy_type	Absolute	Character	Not Applicable	Value Of: - 9999	Not Applicable	
N/A	Input Variable: life_Data: life: paid_up	Absolute	Character	Not Applicable	Value Of: - 9999	Not Applicable	

6.2.1.1.1.2 piz_antiselection_adj

Description: AnnuityTU

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: AS prop piz	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: 60	Absolute	Numeric	First	Default	Default	
N/A	Code Variable: life: sex	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	Code Scalar: life: fund_type	Absolute	Character	Not Applicable	Retry With:	Not Applicable	
N/A	Code Variable: life: ben_class	Absolute	Character	Not Applicable	Retry With: adif	Not Applicable	end: klasi gimla: klasi wol: klasi

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
							ytron: klasi adif: adif profil: profil
N/A	Constant: 1	Absolute	Numeric	Error	Error	Error	
N/A	Code Variable: life: pol_type_annuity_tu	Absolute	Character	Not Applicable	Retry With: managers	Not Applicable	

6.2.1.1.1.3 prat_antiselection_adj

Description: AnnuityTU

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: AS prop prat	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: 60	Absolute	Numeric	First	Default	Default	
N/A	Code Variable: life: sex	Absolute	Character	Not Applicable	Error	Not Applicable	

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Scalar: life: fund_type	Absolute	Character	Not Applicable	Retry With:	Not Applicable	
N/A	Code Variable: life: ben_class	Absolute	Character	Not Applicable	Retry With: adif	Not Applicable	end: klasi gimla: klasi wol: klasi ytron: klasi adif: adif profil: profil
N/A	Constant: 1	Absolute	Numeric	Error	Error	Error	
N/A	Code Variable: life: pol_type_annuity_tu	Absolute	Character	Not Applicable	Retry With: managers	Not Applicable	

6.2.1.1.1.4 old_antiselection_adj

Description: AnnuityTU

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: AS prop old	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
		Object					

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: 60	Absolute	Numeric	First	Default	Default	
N/A	Code Variable: life: sex	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	Code Scalar: life: fund_type	Absolute	Character	Not Applicable	Retry With:	Not Applicable	
N/A	Code Variable: life: ben_class	Absolute	Character	Not Applicable	Retry With: adif	Not Applicable	end: klasi gimla: klasi wol: klasi ytron: klasi adif: adif profil: profil
N/A	Constant: 1	Absolute	Numeric	Error	Error	Error	
N/A	Code Variable: life: pol_type_annuity_tu	Absolute	Character	Not Applicable	Retry With: managers	Not Applicable	

6.2.1.1.1.5 gimla_table

Description: gimla

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: gimla_col_key	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No

Final Row Uses Position:

No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: gimla_row_key	Absolute	Numeric	First	Previous	Last	

6.2.1.1.1.6 takeup_age

Description: Annuity

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Assumption	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	Input Variable: life_Data: life: sex	Absolute	Character	Not Applicable	Retry With: M	Not Applicable	

6.2.1.1.1.7 Types of Annuity Prop

Description: AnnuityTU

Column Lookup Details:

Key Names: No

Final Column Uses Position:

Key Nar	ne Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	

No

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Type	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: takeup_age	Absolute	Numeric	First	Default	Default	
N/A	Code Variable: life: sex	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	Code Scalar: life: fund_type	Absolute	Character	Not Applicable	Retry With:	Not Applicable	
N/A	Code Variable: life: ben_class	Absolute	Character	Not Applicable	Retry With: adif	Not Applicable	end: klasi gimla: klasi wol: klasi ytron: klasi adif: adif profil: profil
N/A	Code Variable: annuity: ann_series_prop	Absolute	Numeric	Retry With: 1	Error	Error	
N/A	Code Variable: life: pol_type_annuity_tu	Absolute	Character	Not Applicable	Retry With: managers	Not Applicable	

6.2.1.1.1.8 Retirement rate

Description: AnnuityTU

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: life: retirement_age_looku p	Absolute	Numeric	Default	Default	Default	
N/A	Code Variable: life: sex	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	Code Scalar: life: fund_type	Absolute	Character	Not Applicable	Retry With:	Not Applicable	
N/A	Code Variable: life: ben_class	Absolute	Character	Not Applicable	Retry With: adif	Not Applicable	end: klasi gimla: klasi wol: klasi ytron: klasi adif: adif profil: profil
N/A	Code Variable: life: ann_series	Absolute	Numeric	Retry With: 1	Error	Error	
N/A	Code Variable: life: pol_type_annuity_tu	Absolute	Character	Not Applicable	Retry With: managers	Not Applicable	

6.2.1.1.1.9 annuity_value_res_tbl

Description: T_Factors

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Base	Relative	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Scalar: life: yob	Absolute	Numeric	First	Previous	Last	
N/A	Code Variable: annuity: takeup_age	Absolute	Numeric	Error	Error	Error	
N/A	Code Variable: annuity: fund_t_factor	Absolute	Numeric	Error	Error	Error	
N/A	Code Variable: life: sex	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.1.1.10 annuity_detail_gtee_tbl

Description: AnnuityDetails

Column Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: ANN_FAC_GTEE	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: annuity: annuity_code	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.1.1.11 annuity_details_tbl

Description: AnnuityDetails

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: annuity: annuity_code	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.1.1.12 Retirement rate ann

Description: AnnuityTU

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Type	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: annuity: takeup_age	Absolute	Numeric	Error	Error	Error	
N/A	Code Variable: annuity: sex1	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	Code Scalar: annuity: fund_type	Absolute	Character	Not Applicable	Retry With:	Not Applicable	
N/A	Code Variable: life: ben_class	Absolute	Character	Not Applicable	Retry With: adif	Not Applicable	end: klasi gimla: klasi wol: klasi ytron: klasi adif: adif profil: profil
N/A	Code Variable: life: ann_series	Absolute	Numeric	Retry With: 1	Error	Error	
N/A	Code Variable: life: pol_type_annuity_tu	Absolute	Character	Not Applicable	Retry With: managers	Not Applicable	

6.2.1.1.1.13 annuity_details_temp_tbl

Description: AnnuityDetails

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: ANN_FAC_NO_GTE E	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: annuity: temp_annuity_code	Absolute	Character	Not Applicable	Value Of: - 99999	Not Applicable	

6.2.1.2 Input Page: Charges

6.2.1.2.1 Assumption Set: Base

6.2.1.2.1.1 mgtfee_tbl

Description: format_mgtfee

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: mgtfee_format	Absolute	Numeric	Value Of: - 99999	Value Of: - 99999	Value Of: - 99999	

6.2.1.2.1.2 mgt_deficit_perc

Description: Economic

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Current	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: int_rate_cumm	Absolute	Character	Not Applicable	Value Of: 0	Not Applicable	
N/A	Code Variable: life: company	Absolute	Character	Not Applicable	Retry With: clal	Not Applicable	

6.2.1.3 Input Page: Claims

6.2.1.3.1 Assumption Set: Base

6.2.1.3.1.1 claim_cost_factors_tbl

Description: profil_rider_claims_annuity_fac

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: row	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: age_adj	Absolute	Numeric	Error	Error	Error	

6.2.1.3.1.2 claim_rates_tbl

Description: profil_decrement_rates

Column Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: col	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: age_adj	Absolute	Numeric	Error	Error	Error	

6.2.1.3.1.3 claims_cost_factors_tbl

Description: claim_cost_phi12_ltc07

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: series_col_key	Absolute	Character	Not Applicable	Value Of: 9999999	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: key_temp	Absolute	Character	Not Applicable	Value Of: 10000000	Not Applicable	

6.2.1.3.1.4 clms_mult_infl

Description: clms_mult

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: 0	Absolute	Numeric	Error	Error	Error	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: clms_mult_set_temp	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.3.1.5 clms_mult_i

Description: clms_mult

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: clms_mult_i_col	Absolute	Numeric	Error	Error	Error	

Row Lookup Details:

Key Names: No

Final Row Uses Position:

No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: clms_mult_set_temp	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.3.1.6 clms_mult_tt

Description: clms_mult

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	System Variable: r	Absolute	Numeric	Error	Value Of: - 99999	Error	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: prod_assumpt_rider_ clms_tbl	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.3.1.7 recovery_rates_tbl

Description: phi_recover

Column Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: recovery_rates_col	Relative	Numeric	First	Error	Last	
N/A	Code Variable: life: pol_type_recovery_ra tes	Absolute	Character	Not Applicable	Retry With: private	Not Applicable	

Key Names: No Final Row Uses Position: No

		.,.					
Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: recovery_rates_row	Relative	Numeric	First	Error	Last	

6.2.1.3.1.8 Various_Parameters

Description: Parameters

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Value	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.4 Input Page: Commission

6.2.1.4.1 Assumption Set: Base

6.2.1.4.1.1 comm_extra_tbl

Description: comm_extra

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: comm_ext_col_key	Absolute	Character	Not Applicable	Value Of: 9999	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: temp_comm_set	Absolute	Character	Not Applicable	Value Of: 10000	Not Applicable	
N/A	Code Variable: life: pol_type_comm_heke f	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	
N/A	Code Variable: life: channel	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	

6.2.1.4.1.2 comm_extra_agent_tbl

Description: comm_extra_agent

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: comm_ext_col_key	Absolute	Character	Not Applicable	Value Of: 10000	Not Applicable	
N/A	Code Variable: life: comm_set_temp	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	
N/A	Code Variable: life: pol_type_comm_heke f	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: channel	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	
N/A	Code Variable: life: temp_agency_no	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	

6.2.1.4.1.3 comm_claw_prpn_tbl

Description: commclaw

Column Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: comm_ext_col_key	Absolute	Character	Not Applicable	Value Of: 9999	Not Applicable	

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: comm_claw_row_key	Absolute	Character	Not Applicable	Value Of: 10000	Not Applicable	

6.2.1.4.1.4 comm_ren_perc_prem_mrtg

Description: Parameters

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Value	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: comm_ren_perc_pre m_mrtg	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.5 Input Page: DAC

6.2.1.5.1 Assumption Set: Base

6.2.1.5.1.1 dac_amort_type

Description: Parameters

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Value	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: dac_amort_type	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.5.1.2 dac_cap_apply

Description: Parameters

Column Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
		Object					

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Value	Absolute	Character	Not Applicable	Error	Not Applicable	

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: dac_cap_apply	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.5.1.3 dac_book_adj_factor

Description: Economic

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Current	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: dac_book_adj_factor	Absolute	Character	Not Applicable	Error	Not Applicable	

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Input Variable: life_Data: life: company	Absolute	Character	Not Applicable	Retry With: clal	Not Applicable	

6.2.1.5.1.4 dac_tax_adj_factor

Description: Economic

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Current	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: dac_tax_adj_factor	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	Input Variable: life_Data: life: company	Absolute	Character	Not Applicable	Retry With: clal	Not Applicable	

6.2.1.6 Input Page: Economic

6.2.1.6.1 Assumption Set: Solv_Base

6.2.1.6.1.1 fund_rates_tbl

Description: fundrate

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	Code Variable: life: sex	Absolute	Character	Not Applicable	Retry With:	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Input Variable: life_Data: life: fund	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.6.1.2 fund_rates_code_tbl

Description: fundrate

Column Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: temp_col_fund	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	Code Variable: life: sex	Absolute	Character	Not Applicable	Retry With: M	Not Applicable	

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Input Variable: life_Data: life: fund	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.6.1.3 inv_rates

Description: Economic

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Current	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
		-					

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	Input Variable: life_Data: life: company	Absolute	Character	Not Applicable	Retry With: clal	Not Applicable	

6.2.1.6.1.4 Yield_pre_ret

Description: RFR_Solv

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	Code Variable: life: prod_group_yessodi_ portfolio	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: risk_free_row_key	Absolute	Numeric	First	Previous	Last	

6.2.1.6.1.5 Yield_post_ret

Description: RFR_Solv

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	Code Variable: life: prod_group_yessodi_ portfolio	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: risk_free_row_key	Absolute	Numeric	First	Previous	Last	

6.2.1.6.1.6 Discounting_pre

Description: RFR_Solv

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: inv_rate_m	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	Code Variable: life: prod_group_yessodi_ portfolio	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: risk_free_row_key	Absolute	Numeric	First	Previous	Last	

6.2.1.6.1.7 Yield_pre_ret_ifrs

Description: RFR_IFRS

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: inv_rate_m	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	Constant: SAV_NPAR	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: risk_free_row_key	Absolute	Numeric	First	Previous	Last	

6.2.1.6.1.8 Yield_post_ret_ifrs

Description: RFR_IFRS

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: ann_inv_rate_m	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	Constant: SAV_NPAR	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: risk_free_row_key	Absolute	Numeric	First	Previous	Last	

6.2.1.6.1.9 Discounting_pos

Description: RFR_Solv

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: ann_inv_rate_m	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	Code Variable: life: prod_group_yessodi_ portfolio	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	

Row Lookup Details:

Key Names: No

Final Row Uses Position:

No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: risk_free_row_key	Absolute	Numeric	First	Previous	Last	

6.2.1.6.1.10 Discounting_NoVA

Description: RFR_Solv

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	Code Variable: life: prod_group_yessodi_ portfolio	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: risk_free_row_key	Absolute	Numeric	First	Previous	Last	

6.2.1.6.1.11 tax_rate

Description: tax_rates

Column Lookup Details:

Key Names: No

Final Column Uses Position:

No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: life: cal_year	Absolute	Numeric	First	Previous	Last	

6.2.1.6.1.12 **CU_Discounted**

Description: Parameters

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Value	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: CU_Discounted	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.6.1.13 fund_group

Description: fundrate

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	Code Variable: life: sex	Absolute	Character	Not Applicable	Retry With:	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

I IIIdi I tott Occo	1 001110111						
Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: fund	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.6.1.14 fundgroup_manual

Description: fundrate

Column Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: sex	Absolute	Character	Not Applicable	Retry With: M	Not Applicable	

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: fund	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.6.1.15 free_inv_ratio_tbl

Description: FreeInvRatio

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Input Variable: life_Data: life: fund	Absolute	Character	Not Applicable	Retry With: 0	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: free_inv_row_key	Absolute	Numeric	Error	Previous	Last	

6.2.1.6.1.16 fund_rates_tbl_yesodi

Description: fundrate

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: par_npar	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	Code Variable: life: sex	Absolute	Character	Not Applicable	Retry With: M	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Input Variable: life_Data: life: fund_yesodi	Absolute	Character	Not Applicable	Value Of: 0	Not Applicable	

6.2.1.6.1.17 Economic_Char

Description: Economic

Column Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Current	Absolute	Character	Not Applicable	Error	Not Applicable	

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	Input Variable: life_Data: life: company	Absolute	Character	Not Applicable	Retry With: clal	Not Applicable	

Description: Economic

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Current	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	Input Variable: life_Data: life: company	Absolute	Character	Not Applicable	Retry With: clal	Not Applicable	

6.2.1.6.1.19 Cols_of_Money_Prop

Description: AnnuityTU

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: annuity: takeup_age	Absolute	Numeric	Error	Error	Error	
N/A	Code Variable: annuity: sex1	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	Code Scalar: annuity: fund_type	Absolute	Character	Not Applicable	Retry With:	Not Applicable	
N/A	Code Variable: life: ben_class	Absolute	Character	Not Applicable	Retry With: adif	Not Applicable	end: klasi gimla: klasi wol: klasi ytron: klasi adif: adif profil: profil
N/A	Code Variable: annuity: ann_series	Absolute	Numeric	Retry With: 1	Error	Error	
N/A	Code Variable: life: pol_type_annuity_tu	Absolute	Character	Not Applicable	Retry With: managers	Not Applicable	

6.2.1.6.1.20 temp_fund_rates_tbl ann

Description: fundrate

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: ann_series	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	Code Variable: life: sex	Absolute	Character	Not Applicable	Retry With: M	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Scalar: annuity: temp_fund_scalar	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.6.1.21 **fund_t_factor**

Description: fundrate

Column Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: sex	Absolute	Character	Not Applicable	Retry With: M	Not Applicable	

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Scalar: annuity: temp_fund_scalar	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.6.1.22 fund_rates_tbl temp

Description: fundrate

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: ann_series	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	Code Variable: life: sex	Absolute	Character	Not Applicable	Retry With: M	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: fund_name_temp	Absolute	Character	Not Applicable	Retry With: 1	Not Applicable	

6.2.1.7 Input Page: Expenses

6.2.1.7.1 Assumption Set: Base

6.2.1.7.1.1 exp_dac_perc

Description: Parameters

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Value	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: exp_dac_perc	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.7.1.2 exp_mult_tbl

Description: exp_mult

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: exp_col_key	Absolute	Character	Not Applicable	Value Of: 99999	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: exp_row_key	Absolute	Character	Not Applicable	Value Of: 100000	Not Applicable	

6.2.1.7.1.3 expense_tbl

Description: expense

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Value Of: 100000	Not Applicable	
N/A	Code Variable: life: par_nonpar_yesodi	Absolute	Character	Not Applicable	Retry With: P	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: exp_row_lookup	Absolute	Character	Not Applicable	Value Of: 99999	Not Applicable	
N/A	Input Variable: life_Data: life: channel	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	

6.2.1.8 Input Page: Lapses

6.2.1.8.1 Assumption Set: Solv_Base

6.2.1.8.1.1 various parameters

Description: Parameters

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Value	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.8.1.2 sur_val_method

Description: Parameters

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Value	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.8.1.3 lapse_factor_y1

Description: lapse_factor

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: lapse_factor_y1_row	Absolute	Character	Not Applicable	Value Of: - 99999	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: agency_no_lookup	Absolute	Character	Not Applicable	Value Of: 99999	Not Applicable	
N/A	Input Variable: life_Data: life: ben_class	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	

6.2.1.8.1.4 lapse_clawback_factor

Description: lapse_factor

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: claw_fact_set	Absolute	Character	Not Applicable	Value Of: - 99999	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: agency_no_lookup	Absolute	Character	Not Applicable	Value Of: 99999	Not Applicable	
N/A	Input Variable: life_Data: life: ben_class	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	

6.2.1.8.1.5 lapse_factor_yplus

Description: lapse_factor

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: lapse_factor_y_col	Absolute	Character	Not Applicable	Value Of: - 99999	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: agency_no_lookup	Absolute	Character	Not Applicable	Value Of: 99999	Not Applicable	
N/A	Input Variable: life_Data: life: ben_class	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	

6.2.1.8.1.6 lapse_rate_im

Description: lapse

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: life: pol_year_ext	Absolute	Numeric	Error	Error	Last	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: lapse_set	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	Code Variable: life: pol_type_lapse	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	
N/A	Constant: 0	Absolute	Numeric	Error	Retry With: 0	Error	
N/A	Constant: n/a	Absolute	Character	Not Applicable	Retry With: n/a	Not Applicable	
N/A	Code Variable: life: lapse_tarif_set	Absolute	Character	Not Applicable	Retry With: 0	Not Applicable	
N/A	Code Variable: life: pup_ind	Absolute	Numeric	Error	Retry With: 0	Error	
N/A	Code Column: life: age_last	Absolute	Numeric	First	Previous	Last	
N/A	Code Variable: life: fund_group	Absolute	Character	Not Applicable	Retry With: P	Not Applicable	
N/A	Input Variable: life_Data: life: channel	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	
N/A	Code Variable: life: foreign_id	Absolute	Numeric	Retry With: 0	Retry With: 0	Retry With: 0	
N/A	Code Variable: life: lapse_type_col_key	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	Code Variable: life: lapse_expos_col_key	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.8.1.7 lapse_rider_profil_dth

Description:	lapse

Column Lookup Details:

Key Names: No

Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: 0	Absolute	Numeric	Error	Error	Last	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Type	Before First	Missing	After Last	Transformed Value
N/A	Constant: profil	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	Code Variable: life: pol_type_lapse_rider	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	
N/A	Constant: 1	Absolute	Numeric	Error	Error	Error	
N/A	Code Variable: life: prod_assumpt_rider_l apse_tbl	Absolute	Character	Not Applicable	Retry With: n/a	Not Applicable	
N/A	Code Variable: life: lapse_tarif_set	Absolute	Character	Not Applicable	Retry With: 0	Not Applicable	
N/A	Constant: 0	Absolute	Numeric	Error	Retry With: 0	Error	
N/A	Constant: 0	Absolute	Numeric	First	Previous	Last	
N/A	Code Variable: life: fund_group	Absolute	Character	Not Applicable	Retry With:	Not Applicable	
N/A	Input Variable: life_Data: life: channel	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	
N/A	Code Variable: life: foreign_id	Absolute	Numeric	Retry With: 0	Retry With: 0	Retry With: 0	

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: lapse_type_col_key	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	Code Variable: life: lapse_expos_col_key	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.8.1.8 lapse_rider_other

Description: lapse

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: life: pol_year_ext	Absolute	Numeric	Error	Error	Last	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Type	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: lapse_set	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	Code Variable: life: pol_type_lapse_rider	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	
N/A	Constant: 1	Absolute	Numeric	Error	Retry With: 1	Error	
N/A	Code Variable: life: lapse_set_riders	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: lapse_tarif_set	Absolute	Character	Not Applicable	Retry With: 0	Not Applicable	
N/A	Constant: 0	Absolute	Numeric	Error	Retry With: 0	Error	
N/A	Code Column: life: age_last	Absolute	Numeric	First	Previous	Last	
N/A	Code Variable: life: fund_group	Absolute	Character	Not Applicable	Retry With:	Not Applicable	
N/A	Input Variable: life_Data: life: channel	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	
N/A	Code Variable: life: foreign_id	Absolute	Numeric	Retry With: 0	Retry With: 0	Retry With: 0	
N/A	Code Variable: life: lapse_type_col_key	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	Code Variable: life: lapse_expos_col_key	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.8.1.9 lapse_rate_pup_im

Description: lapse

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: life: pol_year_ext	Absolute	Numeric	Error	Error	Last	

Row Lookup Details:

Key Names: No

Final Row Uses Position:

No

Key Name	Lookup term	Lookup Model Object	Type	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: lapse_set	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	Code Variable: life: pol_type_lapse	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	
N/A	Constant: 0	Absolute	Numeric	Error	Retry With: 0	Error	
N/A	Constant: n/a	Absolute	Character	Not Applicable	Retry With: n/a	Not Applicable	
N/A	Code Variable: life: lapse_tarif_set	Absolute	Character	Not Applicable	Retry With: 0	Not Applicable	
N/A	Constant: 1	Absolute	Numeric	Error	Retry With: 1	Error	
N/A	Code Column: life: age_last	Absolute	Numeric	First	Previous	Last	
N/A	Code Variable: life: fund_group	Absolute	Character	Not Applicable	Retry With: P	Not Applicable	
N/A	Input Variable: life_Data: life: channel	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	
N/A	Code Variable: life: foreign_id	Absolute	Numeric	Retry With: 0	Retry With: 0	Retry With: 0	
N/A	Code Variable: life: lapse_type_col_key	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	Code Variable: life: lapse_expos_col_key	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.8.1.10 puv_09_tbl

Description:

puv_composite

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: puv_col_key	Absolute	Character	Not Applicable	Value Of: 0	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: puv_row_key	Absolute	Character	Not Applicable	Value Of: 0	Not Applicable	

6.2.1.8.1.11 masslaps_tbl

Description: mass_lapse_tab

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: col_char	Absolute	Character	Not Applicable	Value Of: - 999999	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Obiect	Туре	Before First	Missing	After Last	Transformed Value

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: flag_code	Absolute	Numeric	Error	Value Of: - 999999	Error	

6.2.1.8.1.12 surr_chg_tbl

Description: surr_chg

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: col_char	Absolute	Character	Not Applicable	Value Of: - 999999	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	System Variable: r	Absolute	Numeric	Error	Value Of: - 9999	Last	

6.2.1.8.1.13 pup_ltc_tbl

Description: pup

Column Lookup Details:

Key Name	Lookup term	Lookup Model Obiect	Туре	Before First	Missing	After Last	Transformed Value
		Object					

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: pup_ltc_col	Relative	Numeric	First	Previous	Last	

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Input Variable: life_Data: age_exact_issue	Relative	Numeric	First	Previous	Last	

6.2.1.8.1.14 pup_ltc_tbl_next

Description: pup

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: pup_ltc_col_next	Relative	Numeric	First	Previous	Last	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Input Variable: life_Data: age_exact_issue	Relative	Numeric	First	Previous	Last	

6.2.1.8.1.15 lapse_factor_proj

Description: lapse_factor_proj

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: life: cal_year	Absolute	Numeric	First	Previous	Last	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: lapse_set	Absolute	Character	Not Applicable	Value Of: 100	Not Applicable	
N/A	Code Variable: life: pol_type_lapse	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	
N/A	Constant: 0	Absolute	Numeric	Error	Retry With: 0	Error	

6.2.1.8.1.16 lapse_factor_proj_rider

Description: lapse_factor_proj

Column Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
		Object					

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: life: cal_year	Absolute	Numeric	First	Previous	Last	

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: lapse_set	Absolute	Character	Not Applicable	Value Of: 100	Not Applicable	
N/A	Code Variable: life: pol_type_lapse	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	
N/A	Constant: 1	Absolute	Numeric	Error	Retry With: 0	Error	

6.2.1.8.1.17 lapse_factor_profil_rider

Description: lapse_factor_proj

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: valn_year	Absolute	Numeric	Retry With: 0	Previous	Last	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: lapse_set	Absolute	Character	Not Applicable	Value Of: 100	Not Applicable	
N/A	Code Variable: life: pol_type_lapse	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	
N/A	Constant: 1	Absolute	Numeric	Error	Retry With: 0	Error	

6.2.1.9 Input Page: Margins

6.2.1.9.1 Assumption Set: Solv_Base

6.2.1.9.1.1 asset_shock

Description: Asset_Shocks

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Base	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: ben_class	Absolute	Character	Not Applicable	Value Of: 0	Not Applicable	

6.2.1.9.1.2 prem_disc_scenario

Description: Discount_Scenarios

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: prem_disc	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: life: proj_year	Absolute	Numeric	Retry With: 0	Previous	Last	

6.2.1.9.1.3 mgt_fee_disc

Description: Discount_Scenarios

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: margin_disc_col_key	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Final Row Uses Position:

No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: life: proj_year	Absolute	Numeric	Retry With: 0	Previous	Last	

6.2.1.9.1.4 Margins_Char

Description: margins

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Base	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	System Variable: group	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	

6.2.1.9.1.5 Margins_Number

Description: margins

Column Lookup Details:

Final Column Uses Position:

No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Base	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	System Variable: group	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	

6.2.1.10 Input Page: Mortality

6.2.1.10.1 Assumption Set: Base

6.2.1.10.1.1 death_rates_tbl

Description: death_rates_comp

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: col_dth	Relative	Numeric	First	Error	Last	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: death_rate_row_key	Relative	Numeric	First	Error	Last	

6.2.1.10.1.2 sv_09_tbl

Description: sv_composite

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: sv_col_key	Relative	Character	Not Applicable	Value Of: 0	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: sv_row_key	Relative	Character	Not Applicable	Value Of: 0	Not Applicable	

6.2.1.10.1.3 sv_09_tbl_check

Description: sv_composite

Column Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: sv_col_key	Relative	Character	Not Applicable	Value Of: 0	Not Applicable	

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: sv_row_key	Relative	Character	Not Applicable	Value Of: 99999	Not Applicable	

6.2.1.10.1.4 decrement rates

Description: decrem_rates_com

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: decrem_rate_key	Relative	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: row_num	Relative	Numeric	Error	Error	Last	

6.2.1.10.1.5 decrement rates check

Description: decrem_rates_com

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: col_char	Relative	Character	Not Applicable	Value Of: - 999999	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: 30	Relative	Numeric	Error	Error	Error	

6.2.1.10.1.6 decrement rates by UW date

Description: decrem_rates_uw_com

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: decrem_rate_key	Relative	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Final Row Uses Position:

No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Scalar: origidate	Relative	Numeric	Error	Previous	Last	
N/A	Code Variable: row_num	Relative	Numeric	Error	Error	Last	

6.2.1.10.1.7 decrem_mult_tbl

Description: decrmult

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: decrem_mult_col_key	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: decrem_mult_row_ke y	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.10.1.8 mort_mult_end_age

Description: Parameters

Column Lookup Details:

Final Column Uses Position:

No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Value	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: mort_mult_end_age	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.10.1.9 antisel_margin

Description: Parameters

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Value	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: antisel_margin	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.10.1.10 mort_mult_tbl

Description: mortmult

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: mort_mult_col_key	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: mort_mult_set	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.10.1.11 survive_tbl

Description: Survival_Rates

Column Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: life: retirement_age_looku p	Absolute	Numeric	First	Previous	Last	
N/A	Code Variable: life: sex	Absolute	Character	Not Applicable	Error	Not Applicable	

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: life: age_last	Absolute	Numeric	Error	Error	Error	

6.2.1.10.1.12 select_periods

Description: Parameters

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Value	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.10.1.13 omega_age

Description: Parameters

Column Lookup Details:

Final Column Uses Position:

No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Value	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.10.1.14 death_rates_ann_m_1

Description: ann_mort_08_M_BE

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: life: mort_year	Absolute	Numeric	First	Previous	Last	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: annuity:	Absolute	Numeric	First	Previous	Last	

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
	death_rates_row_1						

6.2.1.10.1.15 sel_ret_qx_im_dth_1

Description: Sel_Ret_Qx

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: 1	Absolute	Numeric	Error	Error	Error	
N/A	Code Variable: annuity: sel_death_rate_col	Absolute	Numeric	First	Previous	Last	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: annuity: takeup_age	Absolute	Numeric	First	Previous	Last	
N/A	Code Variable: annuity: sex1	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.10.1.16 sel_ret_qx_im_dth_2

Description: Sel_Ret_Qx

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: 2	Absolute	Numeric	Error	Error	Error	
N/A	Code Variable: annuity: sel_death_rate_col	Absolute	Numeric	First	Previous	Last	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: annuity: takeup_age	Absolute	Numeric	First	Previous	Last	
N/A	Code Variable: annuity: sex2	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.10.1.17 death_rates_ann_f_1

Description: ann_mort_08_F_BE

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: life: mort_year	Absolute	Numeric	First	Previous	Last	

Row Lookup Details:

Final Row Uses Position:

No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: annuity: death_rates_row_1	Absolute	Numeric	First	Previous	Last	

6.2.1.10.1.18 death_rates_ann_m_2

Description: ann_mort_08_M_BE

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: life: mort_year	Absolute	Numeric	First	Previous	Last	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: annuity: death_rates_row_2	Absolute	Numeric	First	Previous	Last	

6.2.1.10.1.19 death_rates_ann_f_2

Description: ann_mort_08_F_BE

Column Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: life: mort_year	Absolute	Numeric	First	Previous	Last	

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: annuity: death_rates_row_2	Absolute	Numeric	First	Previous	Last	

6.2.1.10.1.20 death_rates_ann_m_b3_2

Description: ann_mort_b3_08_M_BE

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: life: mort_year	Absolute	Numeric	First	Previous	Last	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: annuity: death_rates_row_2	Absolute	Numeric	First	Previous	Last	

6.2.1.10.1.21 death_rates_ann_f_b3_2

Description: ann_mort_b3_08_F_BE

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: life: mort_year	Absolute	Numeric	First	Previous	Last	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: annuity: death_rates_row_2	Absolute	Numeric	First	Previous	Last	

6.2.1.10.1.22 death_rates_ann_m_res_1

Description: ann_mort_08_M_res

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: life: mort_year	Absolute	Numeric	First	Previous	Last	

Row Lookup Details:

Final Row Uses Position:

No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: annuity: death_rates_row_1	Absolute	Numeric	First	Previous	Last	

6.2.1.10.1.23 death_rates_ann_m_res_2

Description: ann_mort_08_M_res

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: life: mort_year	Absolute	Numeric	First	Previous	Last	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: annuity: death_rates_row_2	Absolute	Numeric	First	Previous	Last	

6.2.1.10.1.24 death_rates_ann_m_res_tt

Description: ann_mort_08_M_res

Column Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: mort_year_tt	Absolute	Numeric	First	Previous	Last	

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: annuity: dth_rts_m_row_key_t t	Absolute	Numeric	First	Previous	Last	

6.2.1.10.1.25 death_rates_ann_f_res_1

Description: ann_mort_08_F_res

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: life: mort_year	Absolute	Numeric	First	Previous	Last	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: annuity:	Absolute	Numeric	First	Previous	Last	

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
	death_rates_row_1						

6.2.1.10.1.26 death_rates_ann_f_res_2

Description: ann_mort_08_F_res

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: life: mort_year	Absolute	Numeric	First	Previous	Last	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: annuity: death_rates_row_2	Absolute	Numeric	First	Previous	Last	

6.2.1.10.1.27 death_rates_ann_f_res_tt

Description: ann_mort_08_F_res

Column Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: mort_year_tt	Absolute	Numeric	First	Previous	Last	

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: annuity: dth_rts_m_row_key_t t	Absolute	Numeric	First	Previous	Last	

6.2.1.10.1.28 death_rates_ann_m_res_b3_2

Description: ann_mort_b3_08_M_res

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: life: mort_year	Absolute	Numeric	First	Previous	Last	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: annuity:	Absolute	Numeric	First	Previous	Last	

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
	death_rates_row_2						

6.2.1.10.1.29 death_rates_ann_m_res_b3_tt

Description: ann_mort_b3_08_M_res

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: mort_year_tt	Absolute	Numeric	First	Previous	Last	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: annuity: dth_rts_m_row_key_t t	Absolute	Numeric	First	Previous	Last	

6.2.1.10.1.30 death_rates_ann_f_res_b3_2

Description: ann_mort_b3_08_F_res

Column Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: life: mort_year	Absolute	Numeric	First	Previous	Last	

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: annuity: death_rates_row_2	Absolute	Numeric	First	Previous	Last	

6.2.1.10.1.31 death_rates_ann_f_res_b3_tt

Description: ann_mort_b3_08_F_res

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: mort_year_tt	Absolute	Numeric	First	Previous	Last	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: annuity: dth_rts_m_row_key_t	Absolute	Numeric	First	Previous	Last	

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
	t						

6.2.1.10.1.32 death_rates_res_tbl

Description: death_rates_res_comp

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: sex	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: row_num	Absolute	Numeric	Error	Error	Last	

6.2.1.11 Input Page: Premium

6.2.1.11.1 Assumption Set: Base

6.2.1.11.1.1 Various_Parameters

Description: Parameters

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Value	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.11.1.2 prem_rates_series_end_im

Description: prem_rates

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Series_End	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
		Object					

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: row_char	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.11.1.3 prem_rates_series

Description: prem_rates

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Series_End	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: prem_code_test_tem p	Absolute	Character	Not Applicable	Value Of: - 99999	Not Applicable	

6.2.1.11.1.4 prem_key_temp_rates

Description: prem_rates

Column Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Series_End	Absolute	Character	Not Applicable	Error	Not Applicable	

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: prem_key_temp	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.11.1.5 prem_rates_charge_tt

Description: prem_rates

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: charge_rate_tt_col	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: charge_rate_tt_row	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.11.1.6 prem_if_rates

Description: prem_rates

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: charge_rate_tt_col	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: prem_code	Absolute	Character	Not Applicable	Value Of: 0	Not Applicable	

6.2.1.11.1.7 prem_rates_others

Description: prem_rates

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Final Row Uses Position:

No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: prem_code	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.11.1.8 prem_rates_si

Description: prem_rates

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: prem_rates_si_col	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Type	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: prem_rates_si_row	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.11.1.9 sal_tbl

Description: sal_inc

Column Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: life: age_last	Absolute	Numeric	First	Previous	Last	

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: pol_type_sal_inc	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	
N/A	Code Variable: life: sal_inc_set	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	
N/A	Code Variable: life: term_in_profil	Absolute	Character	Not Applicable	Retry With: N	Not Applicable	

6.2.1.11.1.10 sal_rider_tbl

Description: sal_inc

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: 0	Absolute	Numeric	First	Previous	Last	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: pol_type_sal_inc	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	
N/A	Code Variable: life: sal_inc_set_rider	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	
N/A	Constant: Y	Absolute	Character	Not Applicable	Retry With: N	Not Applicable	

6.2.1.11.1.11 prem_rates_extra_prm

Description: prem_rates_extra

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: prem_rate_col	Absolute	Character	Not Applicable	Value Of: 99999	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model	Туре	Before First	Missina	After Last	Transformed Value
110, 114		Object	.,,,,,		9	7	
N/A	Code Variable: prem_rate_row	Relative	Numeric	First	Value Of: - 99999	Last	

6.2.1.11.1.12 prem_rates_risk_1

Description: prem_rates_risk_comp

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: MS	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: -1	Absolute	Numeric	Error	Error	Error	

6.2.1.11.1.13 prem_rates_risk_2

Description: prem_rates_risk_comp

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: FS	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: -1	Absolute	Numeric	Error	Error	Error	

6.2.1.11.1.14 prem_rates_risk_rider

Description: prem_rates_risk_rider

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: col_char	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: prem_rates_row	Absolute	Numeric	Error	Error	Error	

6.2.1.11.1.15 prem_code_map_tbl

Description: prem_code_map

Column Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
		Object					

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: col	Absolute	Character	Not Applicable	Error	Not Applicable	

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: row	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.11.1.16 prate_level_tbl

Description: prem_rates_level_comp

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: col_char	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: row_num	Absolute	Numeric	Error	Error	Error	

6.2.1.11.1.17 zillmer_pr_tbl

Description: zillmer_prm

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: life: pol_year	Absolute	Numeric	First	Error	Last	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: row_char	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.11.1.18 prem_disc_shimur

Description: Shimur_disc

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Base	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: ben_class	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	
N/A	Code Column: life: pol_year_ext	Absolute	Numeric	Value Of: 0	Previous	Last	

6.2.1.12 Input Page: Product Details

6.2.1.12.1 Assumption Set: Base

6.2.1.12.1.1 prod_assumpt_tbl

Description: prod_ass

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Input Variable: life_Data: life: prod_code	Absolute	Character	Not Applicable	Value Of: N/A	Not Applicable	

6.2.1.12.1.2 savings_pol_prod_code

Description: prod_ass

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: savings_pol	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: prod_code	Absolute	Character	Not Applicable	Value Of: N/A	Not Applicable	

6.2.1.12.1.3 prod_assumpt_base_tbl

Description: prod_ass

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Input Variable: life_Data: life: prod_code_base	Absolute	Character	Not Applicable	Value Of: N/A	Not Applicable	

6.2.1.12.1.4 prod_assumpt_key_tbl

Description: prod_ass

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: key_temp	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Input Variable: life_Data: life: prod_code	Absolute	Character	Not Applicable	Value Of: N/A	Not Applicable	

6.2.1.12.1.5 prod_assumpt_rider_exp_tbl

Description: prod_ass

Column Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: exp_set_cvr	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: prod_code_rider	Absolute	Character	Not Applicable	Value Of: N/A	Not Applicable	

6.2.1.12.1.6 sal_inc_set_rider

Description: prod_ass

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: sal_inc_set	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: prod_code_rider	Absolute	Character	Not Applicable	Value Of: N/A	Not Applicable	

6.2.1.12.1.7 prod_assumpt_rider_lapse_tbl

Description: prod_ass

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: lapse_set_riders	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: prod_code_rider	Absolute	Character	Not Applicable	Value Of: N/A	Not Applicable	

6.2.1.12.1.8 prod_assumpt_rider_clms_tbl

Description: prod_ass

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: clms_mult_set	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: prod_code_rider	Absolute	Character	Not Applicable	Value Of: N/A	Not Applicable	

6.2.1.12.1.9 prod spec term

Description: prod_spec_term

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Input Variable: life_Data: life: prod_code	Absolute	Character	Not Applicable	Value Of: N/A	Not Applicable	

6.2.1.12.1.10 prod spec trad

Description: prod_spec_trad

Column Lookup Details:

Key Nam	ne Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Input Variable: life_Data: life: prod_code	Absolute	Character	Not Applicable	Value Of: N/A	Not Applicable	

6.2.1.12.1.11 prem_lookup_trad

Description: prod_spec_trad

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: prem_lookup	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Input Variable: life_Data: life: prod_code	Absolute	Character	Not Applicable	Value Of: N/A	Not Applicable	

6.2.1.12.1.12 prem_lookup_freq_trad

Description: prod_spec_trad

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: prem_lookup_freq	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Input Variable: life_Data: life: prod_code	Absolute	Character	Not Applicable	Value Of: N/A	Not Applicable	

6.2.1.12.1.13 pup_sv_charge_rebate

Description: prod_spec_unit

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: pup_sv_charge_rebat e	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Input Variable: life_Data: life: prod_code	Absolute	Character	Not Applicable	Value Of: N/A	Not Applicable	

6.2.1.12.1.14 prod_specs_max_perc

Description: prod_spec_unit

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Scalar: life: prod_specs_max_per c	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Input Variable: life_Data: life: prod_code	Absolute	Character	Not Applicable	Value Of: N/A	Not Applicable	

6.2.1.12.1.15 prod_spec_risk_code

Description: prod_spec_unit

Column Lookup Details:

Final Column Uses Position:

No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: prem_lookup_freq	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: risk_code	Absolute	Character	Not Applicable	Value Of: N/A	Not Applicable	

6.2.1.12.1.16 prod_specs_rider

Description: prod_spec_unit

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: prod_specs_rider_col	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: prod_code_rider	Absolute	Character	Not Applicable	Value Of: N/A	Not Applicable	

6.2.1.12.1.17 rider_tarif_tbl

Description: profil_rider_tarif_map

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: prodcd	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: rider_tarif_row_key	Absolute	Character	Not Applicable	Value Of: N/A	Not Applicable	

6.2.1.12.1.18 tarif_spec

Description: tarif_spec

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: tarif_spec_row_key	Absolute	Character	Not Applicable	Value Of: N/A	Not Applicable	

6.2.1.12.1.19 tarif_spec_lookup_freq

Description: tarif_spec

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Prem_Lookup_Freq	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: tarif_spec_row_key	Absolute	Character	Not Applicable	Value Of: N/A	Not Applicable	

6.2.1.12.1.20 alloc_rate_stri

Description: alloc

Column Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: stri	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: alloc_rate_row	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.12.1.21 suminisba_tbl

Description: suminisba

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: suminsbas_col	Relative	Character	Not Applicable	Value Of: 99999	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: suminsbas_row	Relative	Numeric	Value Of: - 99999	Value Of: - 99999	Value Of: - 99999	

6.2.1.12.1.22 claims_factor_occ

Description: tarif_spec_occ

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: occ_key	Absolute	Character	Not Applicable	Retry With: 3	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: tarif	Absolute	Numeric	Value Of: 100	Value Of: 100	Value Of: 100	

6.2.1.12.1.23 bonus_tbl

Description: bonus5

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: surr_charge_set_tem p	Absolute	Character	Not Applicable	Retry With: managers_z ero	Not Applicable	

Row Lookup Details:

No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: bonus_tbl_row	Absolute	Numeric	Error	Error	Error	

6.2.1.12.1.24 gorem_mult

Description: prod_ass

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Input Variable: life_Data: life: prod_code	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.13 Input Page: Reinsurance

6.2.1.13.1 Assumption Set: Base

6.2.1.13.1.1 prem_rates_re

Description: premium_rates_rein_life

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: life: age_last	Absolute	Numeric	Error	Error	Last	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: prem_re_row_key	Absolute	Character	Not Applicable	Value Of: 0	Not Applicable	
N/A	Code Variable: life: prem_re_sex	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	
N/A	Code Variable: life: prem_re_bw	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	
N/A	Code Variable: life: prem_re_wp	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	
N/A	Code Variable: life: prem_re_occ	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	
N/A	Code Variable: life: prem_re_endage	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	
N/A	Code Variable: life: policy_type	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	
N/A	Code Scalar: origidate	Relative	Numeric	First	Previous	Last	

6.2.1.13.1.2 reinsur_w

Description: life_treaty_details

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: rein_set	Absolute	Character	Not Applicable	Retry With: 0_0	Not Applicable	

6.2.1.13.1.3 rein_series_end_key_temp

Description: life_treaty_details

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Series_End	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: rein_key_temp	Absolute	Character	Not Applicable	Retry With: 0_0	Not Applicable	

6.2.1.13.1.4 reinsur_kod_tavla

Description: life_treaty_details

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Scalar: life: reinsur_kodtavla	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: rein_set	Absolute	Character	Not Applicable	Retry With: 0_0	Not Applicable	

6.2.1.13.1.5 reinsur_comm

Description: life_treaty_details

Column Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
		Object					

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: reinsur_comm_key	Absolute	Character	Not Applicable	Value Of: 99999	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: rein_set	Absolute	Character	Not Applicable	Value Of: - 99999	Not Applicable	

6.2.1.13.1.6 reinsur_simple_perc

Description: LifeReins

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: ReinsPerc	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Scalar: life: reins_simple_row	Absolute	Character	Not Applicable	Value Of: - 99999	Not Applicable	

6.2.1.13.1.7 reinsur_simple_cost

Description: LifeReins

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: ReinsCost	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Scalar: life: reins_simple_row	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.13.1.8 reinsur_simple_rider_cost

Description: LifeReins

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: ReinsCost	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Scalar: life: reins_simple_rider_ro w	Absolute	Character	Not Applicable	Value Of: - 99999	Not Applicable	

6.2.1.14 Input Page: Reserve

6.2.1.14.1 Assumption Set: Base

6.2.1.14.1.1 err_sar_perc

Description: Parameters

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Value	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: err_sar_perc	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.14.1.2 err_spread_period

Description: Parameters

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Value	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: err_spread_period	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.14.1.3 zeroise_res

Description: Parameters

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Value	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: zeroise_res	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.14.1.4 reserve_factors_tbl

Description: Reserve_Factors

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: prod_code	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: res_fac_row_key	Absolute	Numeric	Error	Error	Error	

6.2.1.14.1.5 zillmer_adj_factor

Description: Economic

Column Lookup Details:

Key Name	Lookup term	Lookup Model Obiect	Туре	Before First	Missing	After Last	Transformed Value
		Object					

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Current	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: zillmer_adj_factor	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	Input Variable: life_Data: life: company	Absolute	Character	Not Applicable	Retry With: clal	Not Applicable	

6.2.1.14.1.6 AnnuitySets

Description: Annuity

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Assumption	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	
N/A	Input Variable: life_Data: life: sex	Absolute	Character	Not Applicable	Retry With: M	Not Applicable	

6.2.1.14.1.7 Res_Adj_Factor

Description: Reserve_Manual

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Adj_Factor	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Type	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: fundgroup_manual	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	
N/A	Code Variable: life: company	Absolute	Character	Not Applicable	Value Of: 0	Not Applicable	
N/A	Code Variable: life: submodel	Absolute	Character	Not Applicable	Value Of: 0	Not Applicable	
N/A	Code Variable: life: paid_up_input	Absolute	Character	Not Applicable	Value Of: 0	Not Applicable	

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: ben_class	Absolute	Character	Not Applicable	Retry With: default	Not Applicable	

6.2.1.14.1.8 Comm_reserves_AddVAT

Description: Parameters

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Value	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Comm_reserves_Add VAT	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.15 Input Page: Setup

6.2.1.15.1 Assumption Set: Solv_Base

6.2.1.15.1.1 RunControl_Char

Description: Run_Control

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Base	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.15.1.2 RunControl_Num

Description: Run_Control

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Base	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
		Object					

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.15.1.3 Param_Switch

Description: Parameters

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Value	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.15.1.4 RA_factor

Description: RA_Factor

Column Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: groups_sol	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.15.1.5 Serv_Units_Dur

Description: Serv_Units_Dur

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Variable: life: sex	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Code Column: life: age_last	Absolute	Numeric	First	Previous	Last	

6.2.1.15.1.6 dump_vars

Description: Run_Control

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Base	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

Key Names: No Final Row Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: <*code_variable*>	Absolute	Character	Not Applicable	Error	Not Applicable	

6.2.1.15.1.7 dump_vars (2)

Description: Run_Control

Column Lookup Details:

Key Names: No Final Column Uses Position: No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: Base	Absolute	Character	Not Applicable	Error	Not Applicable	

Row Lookup Details:

No

Key Name	Lookup term	Lookup Model Object	Туре	Before First	Missing	After Last	Transformed Value
N/A	Constant: dump_vars	Absolute	Character	Not Applicable	Error	Not Applicable	