

[Help](#)

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#include "lrshjml_d_std.h"

int MOD_OPT(ChkMix)(Option *Opt, Model *Mod)
{
    TYPEOPT* ptOpt=( TYPEOPT*)(Opt->TypeOpt);
    TYPEMOD* ptMod=( TYPEMOD*)(Mod->TypeModel);
    int status=OK;

    if ((strcmp(Opt->Name,"ZeroCouponCallBondEuro")==0) || (
        strcmp(Opt->Name,"ZeroCouponPutBondEuro")==0) || (strcmp(Opt->Name,"ZeroCouponCallBondAmer")==0) || (strcmp(Opt->Name,"ZeroCouponPutBondAmer")==0))
    {
        if ((ptOpt->OMaturity.Val.V_DATE)<=(ptMod->T.Val.V_DATE))
        {
            Fprintf(TOSCREENANDFILE,"Current date greater than maturity!\n");
            status+=1;
        }
        if ((ptOpt->BMaturity.Val.V_DATE)<=(ptOpt->OMaturity.Val.V_DATE))
        {
            Fprintf(TOSCREENANDFILE,"Option maturity greater than Bond maturity!\n");
            status+=1;
        }
    }
    if ((strcmp(Opt->Name,"ZCBond")==0))
    {
        if ((ptOpt->BMaturity.Val.V_DATE)<=(ptMod->T.Val.V_DATE))
        {
            Fprintf(TOSCREENANDFILE,"Current date greater than maturity!\n");
            status+=1;
        }
    }
    if ((strcmp(Opt->Name,"PayerSwaption")==0) || (strcmp(Opt->Name,"ReceiverSwaption")==0) || (strcmp(Opt->Name,"
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    PayerBermudanSwaption")==0)|| (strcmp(Opt->Name,"
    ReceiverBermudanSwaption")==0))
        if((ptOpt->BMaturity.Val.V_DATE)<=(ptOpt->OMaturity.
        Val.V_DATE))
    {
        Fprintf(TOSCREENANDFILE,"Option maturity greater than
        Bond maturity!\n");
        status+=1;
    }

    if ((strcmp(Opt->Name,"Floor")==0)|| (strcmp(Opt->Name,"    Cap")==0))
    {

        if ((ptOpt->FirstResetDate.Val.V_DATE)<=(ptMod->T.Val
        .V_DATE))
        {
            Fprintf(TOSCREENANDFILE,"Current date greater than fir
            st coupon date!\n");
            status+=1;
        }
        if ((ptOpt->FirstResetDate.Val.V_DATE)>=(ptOpt->BMatu
        rity.Val.V_DATE))
        {
            Fprintf(TOSCREENANDFILE,"First reset date greater than
            contract maturity!\n");
            status+=1;
        }
    }

    return status;
}

extern PricingMethod MET(TR_ZCBondLRS1D);
extern PricingMethod MET(TR_ZBOLRS1D);
extern PricingMethod MET(TR_CapFloorLRS1D);
extern PricingMethod MET(TR_SwaptionLRS1D);

PricingMethod* MOD_OPT(methods) []={
    &MET(TR_ZCBondLRS1D),
    &MET(TR_ZBOLRS1D),
    &MET(TR_CapFloorLRS1D),

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    &MET(TR_SwaptionLRS1D),  
    NULL  
};  
DynamicTest* MOD_OPT(tests)[]={  
    NULL  
};
```

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Pricing MOD_OPT(pricing)={  
    ID_MOD_OPT,  
    MOD_OPT(methods),  
    MOD_OPT(tests),  
    MOD_OPT(ChkMix)  
};
```

References