1 Summary

The scmreport script is used for summarizing the results of an scm or scmplus run. The examples below show output for an scmplus run. The output of scmreport is a summary of the contents of the scm log file. NONMEM output files are not parsed.

2 Output with default settings

scmreport run11.scm

Model	N_test	N_ok N_l	ocalmin N_f	ailed :	StepSelected	StepStashed	StepReadded	BackstepRemoved
CLAGE-5	6	6	0	0	-	3	7	-
CLCRCL-5	2	2	0	0	2	-	=-	-
CLDOSE-2	3	3	0	0	3	-	-	-
CLQUAT-2	4	4	0	0	-	1	7	-
CLRACE-2	4	4	0	0	4	-	-	3
CLSEX-2	2	2	0	0	7	1	7	-
KMAGE-5	4	4	0	0	-	1	7	-
KMQUAT-2	4	4	0	0	-	1	7	-
KMRACE-2	4	4	0	0	-	1	7	-
KMSEX-2	4	4	0	0	-	1	7	-
V1AGE-5	4	4	0	0	-	1	7	-
V1DOSE-2	4	4	0	0	-	1	7	-
V1QUAT-2	4	4	0	0	-	1	7	-
V1RACE-2	8	8	0	0	-	5	7	-
V1SEX-2	1	1	0	0	1	-	-	-
V2AGE-5	4	4	0	0	-	1	7	-
V2DOSE-2	7	7	0	0	-	4	7	-
V2QUAT-2	5	5	0	0	5	-	-	2
V2RACE-2	4	4	0	0	-	1	7	-
V2SEX-2	5	5	0	0	-	2	7	-
VMAGE-5	4	4	0	0	-	1	7	-
VMQUAT-2	3	3	0	0	8	1	7	1
VMRACE-2	4	4	0	0	-	1	7	-
VMSEX-2	4	4	0	0	=	1	7	=

Model

The name of the model in the scm log file, which is composed of the parameter, covariate and state number.

N_test

The number of times, i.e. in how many iterations, the parameter-covariate relation has been tested.

N ok

How many times, out of N_test, does the scm log file list an ofv that such that extended model has lower ofv than the base model?

N_localmin

How many times, out of N_test, did the run end in a local minimum, i.e. the log file lists a higher of v for the extended model than for the base model?

N_failed

How many times, out of N_test, did the scm log file state that the model failed?

StepSelected

In which forward step, if any, was the parameter-covariate relation selected?

StepStashed

Only for scmplus: In which forward step, if any, was the parameter-covariate relation stashed, i.e. removed from the set of relations tested again?

StepReadded

Only for scmplus: In which forward step, if any, was a previously stashed parameter-covariate relation retested?

BackstepRemoved

Both for scm and scmplus: In which backward step, if any, was a previously selected parameter-covariate relation removed?

3 Output with option -ofv_table

scmreport run11.scm -ofv

Step	covariate	parameter	state	BASEOFV	NEWOFV	OFVDROP	pvalue
Forward 1	SEX	V1	2	-10610.81224	-10679.13889	68.32665	0.01
Forward 2	CRCL	CL	5	-10679.13889	-10702.00697	22.86808	0.01
Forward 3	DOSE	CL	2	-10702.00697	-10721.34202	19.33506	0.01
Forward 4	RACE	CL	2	-10721.34202	-10736.86380	15.52178	0.01
Forward 5	QUAT	V2	2	-10736.86380	-10744.14780	7.28400	0.01
Forward 6				=	-	-	
Forward 7	SEX	CL	2	-10744.14780	-10809.78278	65.63498	0.01
Forward 8	QUAT	VM	2	-10809.78278	-10816.90670	7.12392	0.01
Forward 9				-	-	-	
Backward 1	QUAT	VM	1	-10816.90670	-10810.62442	-6.28228	0.0001
Backward 2	QUAT	V2	1	-10810.62442	-10802.97823	-7.64619	0.0001
Backward 3	RACE	CL	1	-10802.97823	-10782.58130	-20.39694	0.0001
Backward 4				=	-	-	
Final included	CRCL	CL	5	-	-	-	
Final included	DOSE	CL	2	=	-	-	
Final included	SEX	CL	2	=	-	-	
Final included	SEX	V1	2	-	-	-	

Step

The search direction and the step number in that direction. The last rows list the included relations at the end of the scm or scmplus run.

covariate

The name of the covariate.

parameter

The name of the parameter.

state

The scm state number.

BASEOFV

Base of as read from the scm log file for the step.

NEWOFV

New ofv for the selected model as read from the scm log file for the step.

OFVDROP

Drop between BASEOFV and NEWOFV as read from the scm log file.

pvalue

The p-value cutoff for selecting/excluding a relation as read from the scm log file.

4 Input and options

4.1 Required input

The name of an scm or scmplus run directory is a required argument.

4.2 Optional input

-ofv_table

Show of vetc for selected relations, instead of the default which is a summary of all tested relations.

-decimals = N

Only used in combination with option -ofv_table. Number of decimals to display for OFV columns. Default is 5.

-toR

Print results as data frame code. Default not set.

-logfile

Name of scm logfile in the directory. Default is the name of the logfile in version_and_option_info.txt, so normally this option is only needed if version_and_option_info.txt is not present, or if the entire folder has been moved so that version_and_option_info.txt cannot be used.

-help

Print help text and exit.

-version

Print version information and exit.