

Pirana

The flexible modeling environment for NONMEM



Quick Guide: Reporting functionality

Version 1.1

Scope

This Pirana Quick Guide aims to provide an overview of current reporting functionality available in Pirana.

Overview of functionality

The following functionality for reporting is available in Pirana:

- Run reports in various formats (HTML, Word, text, LaTeX, pdfLaTeX)
- Run records of multiple runs (CSV/Excel, HTML, Word, text)
- Visual interactive run records.
- Execution log files of executed runs.

Generating run reports

- From the menu or context menu, the option Reports can be accessed, which allows generation of various run reports (Figure 1) of one or more runs (if more runs are selected simultaneously).
- The components to be included in the report can be modified (Reports menu, option "Include in reports")
- Generated run reports are placed into a pirana_reports folder, and can be accessed from the tab Reports in the right panel of Pirana (Figure 2).

Run statistics: r002

Nonmem output file: [r002.lst](#)

Reference model

DescriptionTwo Compartment model with Clearance and central volume model with covariates age and gender

NONMEM version: VERSION 7.1.0

Author:

Datasetexample2.csv

Individuals400

Observation records2000

Output file date2011-9-7, 15:11:22

Run startedWed Sep 7 14:36:05 CEST 2011

Run finishedWed Sep 7 15:11:22 CEST 2011

Table files:

Notes in Pirana:

#6 First Order Conditional Estimation with interaction (No Prior)

Objective function value:-10772.143

Termination message:minimization successful
no. of function evaluations used: 455
no. of sig. digits in final est.: 3.3

Estimation time:1m12s

Covariance step time:1m45s

Checks:No boundary problems reported by NONMEM
All gradients non-zero during estimation

Condition number:NA

Theta	Estimate*	SE	RSE	95% CI* [lower, init, upper]	
1 [LCLM]	3.31	0.0326	1%	3.246 - 3.374	-Inf 0.7 +Inf
2 [LCLF]	3.26	0.0286	0.9%	3.204 - 3.316	-Inf 0.7 +Inf
3 [CLAM]	-0.612	0.0095	1.6%	-0.631 - -0.593	-Inf 2 +Inf
4 [CLAF]	-0.208	0.0083	4%	-0.224 - -0.192	-Inf 2 +Inf
5 [LV1M]	0.735	0.0391	5.3%	0.658 - 0.812	-Inf 0.7 +Inf
6 [LV1F]	1.14	0.0357	3.1%	1.07 - 1.21	-Inf 0.7 +Inf
7 [VIAM]	0.336	0.0113	3.4%	0.314 - 0.358	-Inf 2 +Inf
8 [VIAF]	0.192	0.0103	5.4%	0.172 - 0.212	-Inf 2 +Inf
9 [MU_3]	0.695	0.0105	1.5%	0.674 - 0.716	-Inf 0.7 +Inf
10 [MU_4]	2.3	0.0086	0.4%	2.283 - 2.317	-Inf 0.7 +Inf
11 [SDSL]	0.1	0.0028	2.8%	0.094 - 0.106	-Inf 0.3 +Inf
Omega					
	1	2	3	4	Estab (SE) p val Shrinkage
1 [p]	0.0103 (9.4%)				0 (0.005) 0.9887 6.9%
2 [p]	0.0002 (430.7%)	0.008 (17.2%)			-0.001 (0.003) 0.7315 33%
3 [p]	0.0013 (4.00%)	0.005 (16.4%)	0.001 (17.2%)		0.000 (0.000) 0.999 41%
4 [p]	0.0013 (4.00%)	0.005 (16.4%)	0.001 (17.2%)	0.001 (17.2%)	0.000 (0.000) 0.999 41%

Figure 1: HTML report

Generating run records

- Run records are documents that contain reports (e.g. as above) for all runs in the project folder.
- Run records can be created under Results → Run records.
- The CSV run record is a CSV file that can be opened in excel containing a table of all results (e.g. description, OFV, estimates, RSEs etc) for each model.

Generating a visual run record

- The visual run record (VRR) is a SVG file which contains an interactive tree view of the model development process (Figure 3).
- Models are related to each other based on Pirana's reference model tags in the model file.
- The visual run record can be created under Results →.

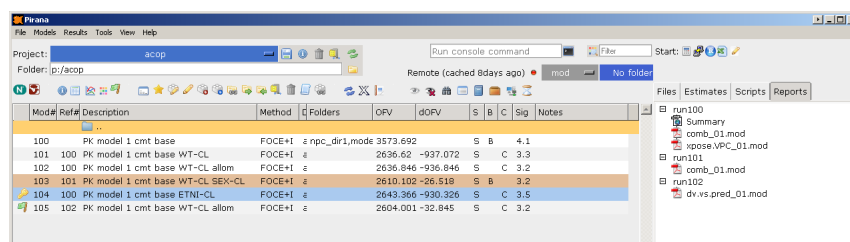


Figure 2: Overview of available reports in right panel

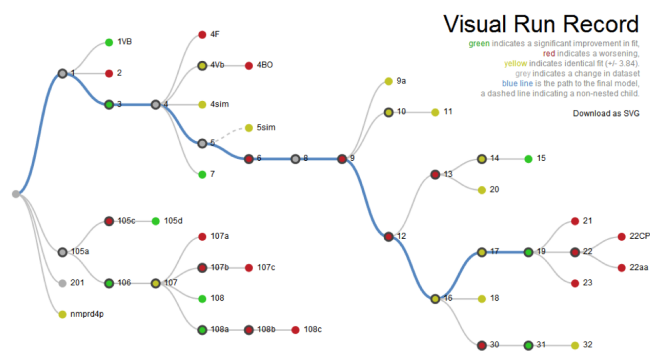


Figure 3: Visual run record