Spock Logging

Teresa Núñez DESY Photon Science

- Motivation for an additional implementation
- Default Spock loggings
- Additional implementation





Sardana Workshop ELI Beamlines, 05-06-18

Motivation

Store in a file the spock session as seen in the screen

- Default loggings are not well suited
- Basic requirements:
 - macros like typed in spock session
 - output and return macro values
 - info/debug/error statements
- Easily controlled



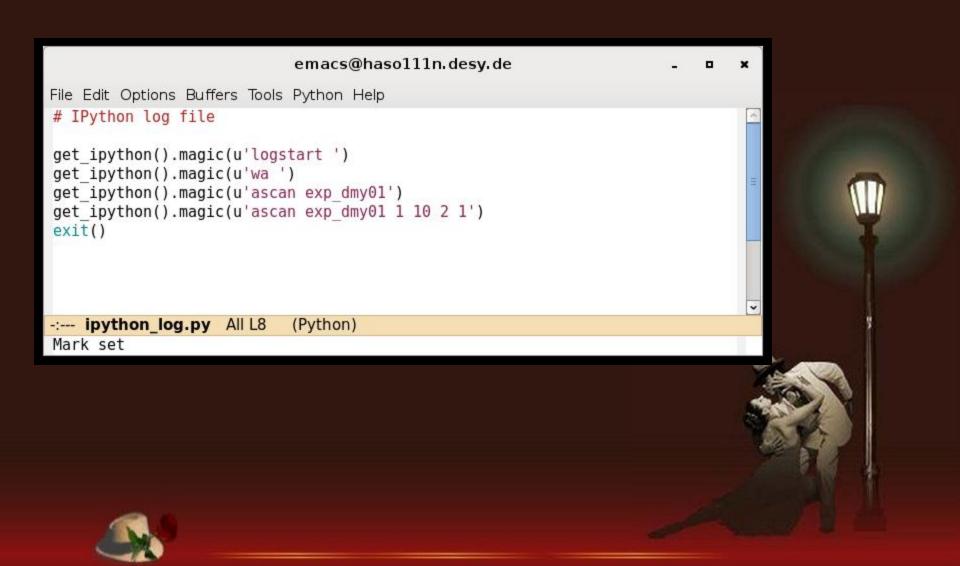


Default spock loggings

- ipython:
 - always active
 - saved in ipthong profile directory (history.sqlite), sqlite format exportable to plain-text with:
 %history -g -f filename
 - only spock commands
- ipython logging:
 - activated with:%logstart
 - saved in spock running directory (ipython_log.py), python file
 - only spock commands. Timestamping and macro output (NOT spock output, BUT macro return value) added with:
 %logstart -t -o



Default spock loggings (ctd.)



Additional implementation

Based on RotatingFileHandler (standard python file handler)

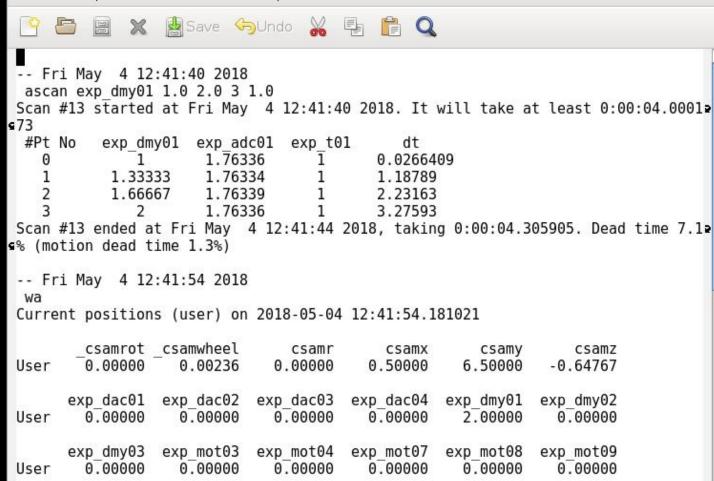
Implemented in msmacromanager.py:

- added in new class LogMacroManager
- instantiated in MacroExecutor.runMacro
- controlled via Environment variables:
 LogMacro (activate/deactivate)
 LogMacroMode (one file/splitted files)
 LogMacroDir (default os.sep-tmp)
 LogMacroFormat (default %(message)s)
- File name: session_[door_mame].log
- applied customized FileHandlerFilter:
 set the output following the user requests



. .

File Edit Options Buffers Tools Help



exp mot15

0.00000

0.00000

exp mot16

0.00000



User

0.00000

0.00000

For information about GNU Emacs and the GNU system, type C-h C-a.

exp motl1 exp motl2 exp motl3 exp motl4

0.00000