Command options

From GridLAB-D Wiki (UVic shadow)

The command-line argument processing module processes arguments as they are encountered.

Note: some modules can process command arguments as well. Those options are not listed here.

Contents

Command-line options

`-W|--workdir` ***`path`*** ***New in 3.0!***
: Sets the working directory for the remainder of the run.

`--quiet | -q`
: Toggles display all messages except error and fatal messages.

`--verbose | -v`
: Toggles display of verbose messages. Verbose messages can be useful in understanding why certain error or warning occur.

`--warn | -w`
: Toggles display of warning messages. Warning messages relate to problems that might affect results.

`--debug`
: Toggles display of debug messages. Debugging messages are highly detailed messages about the internal state of the simulation.

`--debugger`
: Enables the debugger and turns on debug messages.

`--dumpall`
: Enables a complete model dump when the simulation exits.

`--output` ***`file`*** **`| -O`** ***`file`***
: Directs model output to the specified file.

`--profile`
: Enables performance profiling of the model and displays profile output when the simulation exits.

`--check`
: Enables calls to module check functions before the simulation starts. This can be used to detect models errors, but not all modules support such check functions. See **`--libinfo`** for details on module functions.

Global and module control

`--define` ***`name=value`*** **`| -D`** ***`name=value`***

Defines a global variable

--globals
Displays the global variables and their values

--libinfo *module* | -L *module*
Displays information about a module, including API version, classes defined, functions implemented and global variables.

Information

--version | -V
Displays the full version/build number.

--license
Displays the software license.

--copyright
Displays the copyright.

Test processes

--dsttest
Performs a daylight saving time definitions in tzinfo.txt

--endusetest
Performs a test of the end-use pseudo-objects

--globaldump
Perform a global dump of the system and immediately exits.

--loadshapetest
Performs a test of the loadshape pseudo-objects

--locktest
Performs memory locking test

--modtest *module*
Performs the module self-test for the specified module

--randtest
Performs a test of the random number generators

--scheduletest
Performs a test of the schedule pseudo-objects

--test
Perform all the internal core self-test routines

--testall *file*
Performs module selftests of modules those listed in a file.

--unitstest
Performs a test of the units in unitfile.txt

--validate
Perform model validation check ***New in 3.0!***

File and I/O Formatting

--xmlencoding *num*
Sets the XML encoding (8, 16, or 32)

--xmlstrict
Toggles XML to be strict, which is needed for compliance with certain XML loaders.

--stream
Enables streaming I/O (binary I/O instead of GLM/XML)

--xsd *module*[:*object*]
Prints the XSD of a module or object.

--xsl *modulelist*
Creates the XSL for the modules listed.

--kml=*file*
Output the KML (Google Earth) file of model (only supported by some modules).

Help

--example *module*:*class* ***New in 3.0!***
Output an example of GLM code that will create a object of *class* given from the *module* given (as of Hassayampa (Version 3.0)).

--help | -h
Command line help.

--info *keyword* ***New in 3.0!***
Open a browser and searches these Wiki docs for the *keyword* given. Spaces may be entered as underscores in keywords (as of Hassayampa (Version 3.0)).

--modhelp *module*[:*class*]
Output the GLM definition of *class* from *module*. All the classes from the specified module will be listed in alphabetical order if no class is given.

Process control

`--threadcount` *`n`*`|` `-T` *`n`*
Changes the number of threads to use during simulation (0 means as many as useful, default is 1)

`--clearmap` **DEPRECATED**
`--pclear` ***New in 3.0!***
Clears the processor map of defunct processes (as of Hassayampa (Version 3.0))

`--pcontrol` ***New in 3.0!***
Enter interactive process control (as of Hassayampa (Version 3.0))

`--pkill` *`n`* ***New in 3.0!***
Kills job *n* in the process map (as of Hassayampa (Version 3.0))

`--pstatus` ***New in 3.0!***
Displays the processor status (as of Hassayampa (Version 3.0))

System options

`--checkversion`
Perform online version check to see if any updates are available (as of 3.0).

`--compile`
Enables compile-only mode (the GLM file is loaded but the simulation does not start)

`--relax`
Allows implicit variable definition when assignments made

`--pause`
Enable pause at exit (waits for user input before exiting)

`--bothstdout`
Sends all output to stdout

`--check | -c`
Run global checks of models (only supported by some modules)

`--avlbalance`
Controls automatic balancing of object index

`--output` *`file`* `| -o` *`file`*
Saves dump output to file (default is **gridlabd.glm**)

`--environment` *`app`* `| -e` *`app`*
Starts the app as the processing environment (default is **batch**). Recognized environments are **matlab**, **html**, **gui**, and **X11**. All but **batch** are experimental or under development.

Server mode

`--pidfile[=`*`filename`*`]`

Creates a process id file while GridLAB-D is running (default is gridlabd.pid). Note: this is only supported in POSIX platforms.

`--redirect` *`stream`*`[:`*`file`*`]`
Redirects output stream to file (or null). Valid streams are **output**, **error**, **warning**, **debug**, **verbose**, **profile**, **progress**, **none** and **all**.

`--server`
Runs in server mode (uses **pidfile** and redirects all output)

`--server_portnum` *`n`* `|` `-P` *`n`*
Sets the server port number (default is 6267)

Job control

`--job` ***New in 3.0!***
Runs all the GLM files found in the current folder as a single job (as of Hassayampa (Version 3.0)).

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