Formality®
Tool Invocation Commands

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SYNOPSYS®

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fm_shell

Runs the Formality shell.

SYNTAX

```
fm_shell
   [ -root path_name ]
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   [ -32 | -32bit ]
   [ -64 | -64bit ]
   [ -session session_file_name ]
   [ -x command_string ]
   [ -file file_name ]
   [ -name_suffix suffix ]
   [ -overwrite ]
   [ -no_init ]
   [ -version ]
```

ARGUMENTS

-root *path_name*

Specifies the Synopsys root path.

-work_path *path_name*

Specifies a Formality work directory path. All the temporary files and directories that the tool creates, such as formality.log, fm_shell_command.log, FM_WORK/, or formality_svf/, are stored in the specified location. Ensure that the specified location is readable and writable.

-32 | -32bit

Invokes the 32-bit executable of the Formality command shell.

-64 | -64bit

Invokes the 64-bit executable of the Formality command shell. This is the default.

-session *session_file_name*

Specifies a saved Formality session file to restore before displaying the **fm_shell** prompt. The session is restored after loading the setup files but before executing the command string specified by the -x

option or the script specified by the **-file** option.

-x *command_string*

Specifies a command string to execute. The command string can be a string of one or more **fm_shell** commands separated by semicolons. These commands are executed before displaying the **fm_shell** prompt and before executing the script specified by using the **-file** option. If the last statement in the command string is **quit**, the Formality shell command prompt is not displayed and the tool exits after executing the **command_string**.

-file *file_name*

Executes a file of **fm_shell** commands specified by the *file_name* argument before displaying the initial fm_shell prompt. If the last statement in the file is **quit**, the Formality shell command prompt is not displayed and the tool exits after executing the commands in the file.

-name_suffix *suffix*

Appends the suffix specified by the *suffix* argument to the names of Formality supplemental log files, formality.log and fm_shell_command.log. The suffix is also appended to the name of the temporary work directory, FM_WORK, and to the name of the automated setup file directory, formality_svf, that Formality creates.

-overwrite

Specifies that the log files and the temporary work directory can be overwritten. Use this option with the **-name_suffix suffix** option.

-no_init

Specifies that the .synopsys_fm.setup startup files are not to be executed.

-version

Displays the version number and build date information, and then exits.

DESCRIPTION

The **fm_shell** command interprets and executes Formality shell commands. The command interpreter is based on Tcl.

The fm_shell executes commands until you terminate the session using the **quit** or **exit** commands. From the Formality shell, you can also terminate the fm_shell session by pressing Ctrl+D.

To cancel, or interrupt, the command currently executing in fm_shell, press Ctrl+C. The time it takes for a command to process an interrupt depends upon the type of command. If you press Ctrl+C three times before a command responds to the interrupt, the Formality shell exits and returns you to the UNIX shell.

For more information, see **Formality User's Guide and Reference Manual**.

SEE ALSO

```
formality(1)
```

formality

Runs the Formality Graphical User Interface (GUI).

SYNTAX

```
formality
    [-root path_name]
    [-work_path path_name]
    [-32 | -32bit]
    [-64 | -64bit]
    [-session session_file_name]
    [ -x command_string ]
    [-file file_name]
    [-name_suffix suffix]
    [-overwrite]
    [-no_init]
    [-version]
```

Data Types

```
path_name               string
session_file_name       string
file_name               string
suffix                  string
```

ARGUMENTS

-root *path_name*

Specifies the Synopsys root path.

-work_path *path_name*

Specifies a Formality work directory path. All the temporary files and directories that the tool creates, such as formality.log, fm_shell_command.log, FM_WORK/, or formality_svf/, are stored in the specified location. Ensure that the specified location is readable and writable.

-32 | -32bit

Specifies that the 32-bit executable should be used.

-64 | -64bit

Specifies that the 64-bit executable should be used. This is the default value.

-session *session_file_name*

Specifies a saved Formality session file to load before dissplaying the initial **fm_shell** prompt. The session is restored after loading the setup files but before executing the command string specified by the -x option or the script specified by the -file option.

-x *command_string*

Specifies a command string to execute. The command string can be a string of one or more **fm_shell** commands separated by semicolons. The tool executes these commands before displaying the **fm_shell** prompt and before executing the script specified by the -file option. If the last statement in the command string is **quit***, the tool does not display the Formality shell command prompt and exits after executing the command string.*

-file *file_name*

Specifies a file containing **fm_shell** commands to execute before displaying the **fm_shell** prompt. If the last statement in the file is **quit**, the tool exits after executing the commands in the file, and does not display the Formality shell command prompt.

-name_suffix *suffix*

Appends the suffix specified by the *suffix* argument to names of Formality supplemental log files, formality.log and fm_shell_command.log. The tool also appends the suffix to the name of the temporary work directory FM_WORK, and to the name of the automated setup file directory, formality_svf, that it creates.

-overwrite

Specifies that the log files and the temporary work directory can be overwritten. Use this option with the **-name_suffix** *suffix* option.

-no_init

Specifies that the .synopsys_fm.setup startup files are not to be executed.

-version

Displays the version number, build date information, and then exits.

DESCRIPTION

This command provides a graphical user interface (GUI) to the Formality shell.

It interprets and executes Formality shell commands. The Formality command interpreter is based on Tcl.

Formality executes commands until you terminate it using the **quit** or **exit** commands. From the invocation shell, you can also terminate the Formality session by pressing Ctrl+D.

To cancel or interrupt the command currently executing in Formality, press Ctrl+C in the invocation shell or click the Stop button. The time it takes for a command to process an interrupt depends upon the type of

command. If you press Ctrl+C three times before a command responds to the interrupt, Formality exits and returns you to the UNIX shell.

For more information, see *Formality User's Guide and Reference Manual*.

SEE ALSO

fm_shell(1)