PrimeTime® Suite
Tool Invocation Commands

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SYNOPSYS®

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Contents

primetime

Runs the PrimeTime graphical user interface (GUI).

SYNTAX

primetime
  -root_path *path_name*
  [-display *display_env_value*]
  [-file *script_file*]
  [-no_init]
  [-version]
  [-multi_scenario]

Data Types

  path_name   string
  display_env_value   string
  script_file   string

ARGUMENTS

-root_path *path_name*

  Specifies the Synopsys root path.

-display *display_env_value*

  Sets the DISPLAY environment variable to *display_env_value* for PrimeTime GUI if invoked from the pt_shell.

-file *script_file*

  Executes the commands in the specified script file before displaying the initial pt_shell prompt. If the last statement in the script file is the **quit** or **exit** command, no prompt is displayed, and the command shell exits.

-no_init

  Prevents the execution any .synopsys_pt.setup startup files.

-version

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

-multi_scenario

  Invokes PrimeTime in the master of the distributed processing mode. PrimeTime starts up and displays the pt_shell prompt just as in a single scenario session. A distributed multi-scenario analysis (DMSA) is carried out by one master PrimeTime process and multiple PrimeTime slave processes.

-constraints

  Invokes PrimeTime in constraints consistency mode. PrimeTime starts up and displays a ptc_shell prompt. This mode opens a GUI, so the DISPLAY environment variable must point to a valid graphical environment.

-output_log_file *log_file*

Writes the tool session output to both the specified file and the terminal. This is equivalent to using the **tee** command in the host environment, except that the startup banner and tool exit message are not included in the output file.

-container

Invokes PrimeTime in a container. You can also set the SNPS_CONTAINER environment variable to 1 before invoking the tool. The Synopsys Container environment must be installed and configured.

DESCRIPTION

This command invokes the graphical user interface (GUI) to pt_shell. It executes all pt_shell startup files, commands, and command scripts. It also provides a graphical console for invoking the pt_shell commands and windows for graphical visualization of timing information.

The Main window is the graphical counterpart to pt_shell and is the only window that appears initially. The Main window provides a graphical console for executing pt_shell commands and viewing the results. Commonly used commands are also accessible from the Main window's menus. Lastly, the graphical visualization windows are invoked from the Main window.

The Histogram window can display a histogram of Endpoint Slack, Path Slack, Net Capacitance, or Design Rule Cost information for the current design. The histograms give an overall view of the state of the design. The Path Profiler window can be used to examine profiles of specific paths and nets identified in the Histogram window.

The Path Schematic Window provides a schematic view of the path specified from the Histogram Window. In addition, pin names with rise/fall arrival value, net capacitance and cell names are annotated.

The Report window organize the reports generated and provides simple viewing and search capabilities to browse the reports.

SEE ALSO

pt_shell(1)

pt_shell

Runs the PrimeTime command shell.

SYNTAX

pt_shell
  -root_path *path_name*
  [-gui]
  [-display *display_env_value*]
  [-file *script_file*]
  [-no_init]
  [-x *command*]
  [-version]
  [-multi_scenario]

Data Types

  path_name   string
  display_env_value   string
  script_file   string
  command   string

ARGUMENTS

-root_path *path_name*

　Specifies the Synopsys root path.

-gui

　Invokes the PrimeTime GUI immediately upon startup.

-display *display_env_value*

　Sets the DISPLAY environment variable to *display_env_value* for PrimeTime GUI if invoked from the **pt_shell** command.

-file *script_file*

　Executes the commands in the specified script file before displaying the initial pt_shell prompt. If the last statement in the script file is the **quit** or **exit** command, no prompt is displayed, and the command shell exits.

-x *command*

　Executes the pt_shell statements in *command* before displaying the initial pt_shell prompt. You can enter multiple statements, separating each statement with a semicolon, with quotation marks around the entire set of command statements after the **-x** option. If you also use the **-file** option, the statements from the **-x** option are executed before the script from the **-file** option is executed. If the last statement entered is **quit**, no prompt is displayed and the command shell is exited.

-no_init

　Directs the pt_shell not to execute any .synopsys_pt.setup startup files.

-version

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

-multi_scenario

Invokes PrimeTime in the master of the distributed processing mode. PrimeTime starts up and displays the pt_shell prompt just as in a single scenario session. A distributed multi-scenario analysis (DMSA) is carried out by one master PrimeTime process and multiple PrimeTime slave processes.

-constraints

Invokes PrimeTime in constraints consistency mode. PrimeTime starts up and displays a ptc_shell prompt. This mode opens a GUI, so the DISPLAY environment variable must point to a valid graphical environment.

-output_log_file *log_file*

Writes the tool session output to both the specified file and the terminal. This is equivalent to using the **tee** command in the host environment, except that the startup banner and tool exit message are not included in the output file.

-container

Invokes PrimeTime in a container. You can also set the SNPS_CONTAINER environment variable to 1 before invoking the tool. The Synopsys Container environment must be installed and configured.

DESCRIPTION

Interprets and executes PrimeTime timing analysis commands. The pt_shell command interpreter is based on Tcl (Tool Command Language).

The pt_shell executes commands until you terminate the session with the **quit** or **exit** command. During interactive mode, you can also terminate the pt_shell session by using Ctrl+D.

To cancel or interrupt the command currently executing in the pt_shell, type Ctrl+C. The time it takes for a command to process an interrupt (stop what it is doing and continue with the next command) depends upon the size of the design and the type of command. If you enter Ctrl+C three times before a command responds to the interrupt, pt_shell exits, and the following message is displayed:

Information: Process terminated by interrupt.

SEE ALSO

primetime(1)