PrimeTime
Tool Invocation Commands

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primetime

Runs the PrimeTime GUI.

SYNTAX

primetime [-f *file_name*] [-no_init] [-version]
string *file_name*

ARGUMENTS

-f file_name
Executes *file_name* (a file of **pt_shell** commands).

-no_init
Directs the **program** not to execute any **.synopsys_pt.setup** *startup files*.

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

DESCRIPTION

Graphical user interface to pt_shell. Executes all pt_shell startup files, commands and command scripts. Provides a graphical console for the invocation of 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 anontated.

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

Supported Platforms and Operating Systems

Sun SPARC (Solaris 5.4, SunOS 4.1.4) HP700/800 (HP-UX10.03)

SEE ALSO

"PrimeTime User **Guide", pt_shell** (1). **dc_shell** (1).

pt_shell

Runs the PrimeTime command shell.

SYNTAX

pt_shell [-f *file_name*] [-gui] [-display *display_env_var*] [-x *command_string*] [-no_init] [-version]
string *file_name*
string *display_env_var*
string *command_string*

ARGUMENTS

-32bit
: Directs the **pt_shell** to start up using the 32 bit executable of the requested architecture, if available. If the 32 bit binary is unavailble, the startup process terminates. Where the **-32bit** switch is utilized, and the user is on a 64 bit machine, the corresponding 32 bit binary for that architecture is used. The exception to this rule is where there is no actual 32 bit binary for the requested architecture, but where 32 bit compatible binaries are available. In this circumstance, the 32 bit binary that is compatible with the requested architecture is used.

-64bit
: Directs the **pt_shell** to start up using the 64 bit executable of the requested architecture, if available. If the 64 bit binary is unavailable, the startup process terminates.

-native
: Directs the **pt_shell** to start up using the native executable of the requested architecture, if available. This directs the pt_shell to start using the 32 bit executable of the requested architecture on a 32 bit platform or the 64 bit executable of the requested arhciteucture on a 64 bit platform. If the native executable is unavailable, the startup process terminates.

-f file_name
: Executes *file_name* (a file of **pt_shell** commands) before displaying the initial pt_shell prompt. If the last statement in *file_name* is **quit**, no prompt is displayed and the command shell is exited.

-gui
: Directs the **pt_shell** to start up the Primetime GUI immediately upon startup.

-display display_env_var
: Sets the DISPLAY environment variable to *display_env_var* for Primetime GUI if invoked from **pt_shell**.

-x command_string
: Executes the pt_shell statements in *command_string* 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**. If you also use the **-f** option, the statements

from **-x** are executed before the script from **-f** 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, build date information, then exits.

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 it is terminated by a **quit** or **exit** command. During interactive mode, you can also terminate the pt_shell session by typing Control-d.

To cancel (interrupt) the command currently executing in **pt_shell**, type Control-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 Control-c three times before a command responds to the interrupt, pt_shell exits and the following message is displayed:

Information: Process terminated by interrupt.

EXAMPLES

None.

SEE ALSO

PrimeTime User Guide.

transcript

Runs transcript, which translates dc_shell scripts to PrimeTime scripts.

SYNTAX

transcript *dc_script pt_script*
[-source_for_include]
[-no_script_warnings]
[-no_init]
string *dc_script*
string *pt_script*

ARGUMENTS

-source_for_include
: Nested includes are not expanded. Instead, the Design Compiler command **include** is simply translated to the PrimeTime command **source**.

-no_script_warnings
: When transcript encounters unsupported commands or unsupported options of supported commands, a warning is echoed to the screen and the translated script. This option suppresses warnings from the output script. You should only use this after you have examined each message which Transcript issued.

-no_init
: By default, Transcript finds .synopsys_dc.setup files from the same three locations as Design Compiler: in the root, in your home directory, and in the current directory. Transcript scans these files for variable definitions and aliases. Use -no_init to disable this scan. This is not recommended.

dc_script
: The name of the Design Compiler script to translate.

pt_script
: The name of the PrimeTime script which will be written by transcript.

DESCRIPTION

transcript is a standalone program which translates Design Compiler scripts to PrimeTime scripts. Not all scripts can be translated, and in many cases, only a partial translation will occur. The PrimeTime User Guide has a chapter dedicated to **transcript**.

All information for the program is passed in on the command line.

SEE ALSO

PrimeTime User Guide.