Appendix A

Commands-Only Prism

You can run Prism in a commands-only mode, without the graphical interface. This is useful if you don't have access to a terminal or workstation running X. All Prism functionality is available in commands-only mode except features that require graphics (for example, visualizers). See Section A.1.

If you are using an Xterm, you can also run a commands-only version of Prism that lets you redirect the output of certain commands to X windows. This may be preferable to users who are used to a command-line interface for debugging, but want to take advantage of some of Prism's graphical features (for example, visualizers and the performance data display). See Section A.6.

For further information on individual commands, read the sections of the main body of this guide dealing with the commands, and read the reference descriptions in the *Prism Reference Manual*.

A.1 Specifying the Commands-Only Option

To enter commands-only mode, specify the **`-C`** option on the **`prism`** command line. You can also include other arguments on the command line; for example, you can specify the name of a program so that Prism comes up with that program loaded. X toolkit options are, of course, meaningless. See Section 2.2.2 for more information on command-line options.

When you have issued the command, you receive this prompt:

```
(prism)
```


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You can issue most Prism commands at this prompt, except for commands that apply specifically to the graphical interface; these include **pushbutton**, **tearoff**, and **untearoff**.

A.2 Issuing Commands

You operate in commands-only Prism just as you do when issuing commands on the command line in graphical Prism; output appears below the command you type, instead of in the history region above the command line. You cannot redirect output using the **on** *window* syntax. You can, however, redirect output to a file using the **@** *filename* syntax.

Commands-only Prism supports the editing key combinations supported by graphical Prism, plus some additional combinations. Here is the entire list:

Ctrl-a Moves to the beginning of the line.

Ctrl-b (or **Ctrl-h**)
Moves back one character.

Ctrl-c Interrupts execution.

Ctrl-d Deletes the character under the cursor.

Ctrl-e Moves to the end of the line.

Ctrl-f Moves forward one character.

Ctrl-j (or **Ctrl-m**)
Done with input (equivalent to pressing the **Return** key).

Ctrl-k Deletes to the end of the line.

Ctrl-l Refreshes the screen.

Ctrl-n Displays the next command in the commands buffer.

Ctrl-p Displays the previous command in the commands buffer.

Ctrl-u Deletes to the beginning of the line.

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When printing large amounts of output, commands-only Prism displays a **more?** prompt after every screenful of text. Answer **y** or simply press the **Return** key to display another screenful; answer **n** or **q**, followed by a carriage return, to stop the display and return to the **(prism)** prompt.

You can adjust the number of lines Prism displays before issuing the **more?** prompt by issuing the **set** command with the **$page_size** variable, specifying the number of lines you want displayed. For example, issue this command to display 10 lines at a time:

```
(prism) set $page_size = 10
```

Set the **$page_size** to 0 to turn the feature off; Prism will not display a **more?** prompt.

A.3 Useful Commands

This section describes some commands that are especially useful in commands-only Prism.

Use the **list** command to list source lines from the current file. For example,

```
(prism) list 10, 20
```

prints lines 10 through 20 of the current file.

Use the **collection** command with no arguments to print out the current status of collection (on or off).

Use the **show events** command to print the events list. Use the **delete** command to delete events from this list.

Use the **perf** command to display performance data. Use the **perfsave** command to save the performance data in a format that you can later load into the graphical version of Prism (via the **perfload** command or the **Load Data** selection from the **File** menu in the **Performance Data** window). Use the **perfadvice** command to display an analysis of the performance data.

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A.4 Obtaining On-Line Documentation

Use the **doc** command to obtain on-line documentation in commands-only Prism. The **doc** command is not available in graphical Prism.

Issuing **doc** displays a menu of available documents. Choose the number associated with the document you want to view. In most cases, this displays another menu of the chapters within the document. Choose the number associated with the chapter, and the first screenful of text for that chapter is displayed. Answer **y** in response to the **more?** prompt or simply press the **Return** key to display the next screenful. Answer **n** to return to the menu.

If you choose the number associated with bug-update files or release notes from the top-level **doc** menu, Prism displays a menu of the files or release notes available at your site.

From any menu, you can press **p** to return to the previous menu, **q** to return to the **(prism)** prompt, or **m** to display the text of a UNIX or CMOST manual page. When you press **m**, you can either enter the name of the man page immediately, or press **Return** and be prompted for the name of the man page.

Use the syntax

number **@** *filename*

to redirect the text of the document associated with *number* to the file you specify. Use

number **@@** *filename*

to add the text to the end of an existing file.

A.5 Leaving Commands-Only Prism

Issue the **quit** command to leave commands-only Prism and return to your UNIX prompt.

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A.6 Running Commands-Only Prism from an Xterm: The −CX Option

Issue the **prism** command with the **-CX** option from an Xterm to start up a commands-only Prism that lets you redirect the output of certain commands to X windows. The information presented earlier in this appendix about commands-only Prism also applies to this version, except that this version lets you redirect output using the **on** *window* syntax.

You can redirect the following output to X windows:

- visualizers (including structure visualizers) — **print** or **display** command
- performance data — **perf** command
- **Where** graph (Node Prism only) — **where** command
- **PN Sets** window (Node Prism only) — **show pnsets** command

To redirect the output, issue the appropriate command with the **on dedicated** or **on snapshot** syntax, just as you would in graphical Prism. For example, this command displays a visualizer for **x** in a dedicated window:

```
(prism) print x on dedicated
```

This command displays performance data in a snapshot window:

```
(prism) perf on snapshot
```

In addition, you can display help windows from within windows that you pop up in this way.

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