About This Manual

Objectives of This Manual

This manual explains how to use the Prism programming environment to develop, execute, debug, and analyze the performance of programs on a CM-2, CM-200, or CM-5 Connection Machine system.

Intended Audience

The manual is intended for application programmers developing programs in C, C*, Fortran 77, or CM Fortran. We assume you know the basics of developing and debugging programs, as well as the basics of using a CM. Some familiarity with the UNIX debugger **`dbx`** is helpful, but not required. Prism is based on the X and OSF/Motif standards. Familiarity with these standards is also helpful but not required.

Revision Information

This manual has been revised to incorporate changes made for Prism Version 2.0, primarily to support message-passing programs on the CM-5.

Organization of This Manual

The manual contains these chapters:

Chapter 1 **Introduction**
Gives an overview of Prism.

Chapter 2 **Using Prism**
Provides general information about using Prism.

Chapter 3 **Loading and Executing a Program**
Describes how to load and execute a program in Prism.

Copyright © 1991–1994 Thinking Machines Corporation

Chapter 4 **Debugging a Program**
Describes how to use Prism to perform certain basic kinds of debugging, such as setting a breakpoint and tracing program execution.

Chapter 5 **Printing and Displaying Data**
Describes how to choose data for printing and display, and how to specify the way in which the data is to be visualized.

Chapter 6 **Obtaining Performance Data**
Describes how to collect and interpret performance statistics for your program.

Chapter 7 **Editing and Compiling Programs**
Describes how to edit and compile source code using Prism.

Chapter 8 **Getting Help**
Describes how to use Prism's on-line help and on-line documentation facilities.

Chapter 9 **Customizing Prism**
Describes how to change Prism's behavior to suit your needs and preferences.

Chapter 10 **Node Prism**
Describes how to use Node Prism to debug, visualize data in, and analyze the performance of message-passing programs.

Appendix A **Commands-Only Prism**
Describes how to use Prism in commands-only mode, without its graphical interface.

Appendix B **Using Prism with CMAX**
Describes how to use Prism with programs that have been converted from Fortran 77 to CM Fortran via the CMAX Converter.

Appendix C **Glossary**
Defines specialized terms used in the Prism documentation.

Version 2.0, April 1994
Copyright © 1991–1994 Thinking Machines Corporation

Related Documents

Refer to the release notes for last-minute information on Prism. The release notes are available on-line by choosing the **Release Notes** selection from the **Help** menu or by issuing the command **`help release`**.

The *Prism Reference Manual* provides reference descriptions of all Prism commands.

For general information about developing and running programs on a CM-2 or CM-200 series Connection Machine system, consult the *CM User's Guide*. For information on the CM-5, consult the *CM-5 User's Guide*.

Notation Conventions

The table below displays the notation conventions used in this manual:

Convention	Meaning
`boldface`	Prism, UNIX, and CMOST commands, command options, and file names. Also, language elements, such as keywords, operators, and function names.
Ctrl-D	Simultaneous keystrokes are shown with a connecting hyphen. To type the **Ctrl-D** combination, for example, press and hold down the **Control** key, then press the **D** key.
italics	Parameter names and placeholders in command formats.
`% ` **`boldface`** `typewriter`	In interactive examples, user input is shown in **`bold typewriter`** font and system output is shown in `typewriter` font.

Copyright © 1991–1994 Thinking Machines Corporation