About This Manual

Objectives of This Manual

This manual describes the CM Fortran and C* interfaces to the CMX11 library. It provides both an introduction to the use of the library and detailed reference information.

Intended Audience

It is assumed that readers have a basic knowledge of CM Fortran or C*.

Revision Information

This is the fourth edition of this manual. This manual replaces the *CMX11 Reference Manual* Version 1.5.1, published in May 1993.

New Features

New features introduced in Version 1.6 include mouse interface routines (Chapter 4) and CM Fortran wrappers for scalar X11 routines (Chapter 6).

Organization of This Manual

This manual contains six chapters.

Chapter 1 Introduction to CMX11
An overview of the CMX11 library and how to get started.

Chapter 2 Creating and Controlling Displays
A description of the groups of routines you can use to connect to and manage an X display from your CM Fortran or C* program.

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Chapter 3 Drawing to a Display
A description of the CMX11 parallel drawing routines.

Chapter 4 Mouse Interface Routines
A description of the CMX11 mouse interface routines.

Chapter 5 CMX11 Man Pages
UNIX-style man pages for each of the CMX11 routines.

Chapter 6 Scalar X11 Man Pages
UNIX-style man pages for each of the CM Fortran wrappers for scalar X11 routines.

Related Documents

For a general introduction to X Window System programming with Motif see:

- *The X Window System: Programming and Applications with Xt — OSF/Motif Edition,* Douglas A. Young (Englewood Cliffs, NJ: Prentice-Hall, 1990).

For more information on the X11 system and X programming, see the following:

- *Xlib Programming Manual,* Adrian Nye (Sebastopol, CA: O'Reilly & Associates, 1990).
- *Xlib Reference Manual,* Adrian Nye (Sebastopol, CA: O'Reilly & Associates, 1990).
- *X Window System User's Guide,* Valerie Quercia and Tim O'Reilly (Sebastopol, CA: O'Reilly & Associates, 1990).

For more information on Motif programming, see the following:

- *OSF/Motif Style Guide,* Open Software Foundation (Englewood Cliffs, NJ: Prentice-Hall, 1991).
- *OSF/Motif Programmer's Guide,* Open Software Foundation (Englewood Cliffs, NJ: Prentice-Hall, 1991).

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- *OSF/Motif Reference Guide,* Open Software Foundation (Englewood Cliffs, NJ: Prentice-Hall, 1990).
- *OSF/Motif Programmer's Reference,* Open Software Foundation (Englewood Cliffs, NJ: Prentice-Hall, 1990).

Notation Conventions

The table below displays the notation conventions observed in this manual.

Convention	Meaning
`bold typewriter`	X11, UNIX, and CM System Software commands, command options, and filenames, when they appear embedded in text. Also CM Fortran and C* language elements, such as keywords, operators, and function names, when they appear embedded in text.
italics	Argument names and placeholders in function and command formats.
`typewriter`	Code examples and code fragments.
`% ` **`bold typewriter`** `typewriter`	In interactive examples, user input is shown in **`bold typewriter`** and system output is shown in `regular typewriter` font.

Naming Conventions

For readability and consistency we have used the X Window System conventions for function names throughout this document. The first letter in each word in the function name is capitalized, for example, **`CMXCreateSimpleDisplay`**. C* programmers must use the correct capitalization. CM Fortran, however, does not distinguish between upper- and lowercase letters, so CM Fortran programmers may name the functions without regard for capitalization.

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