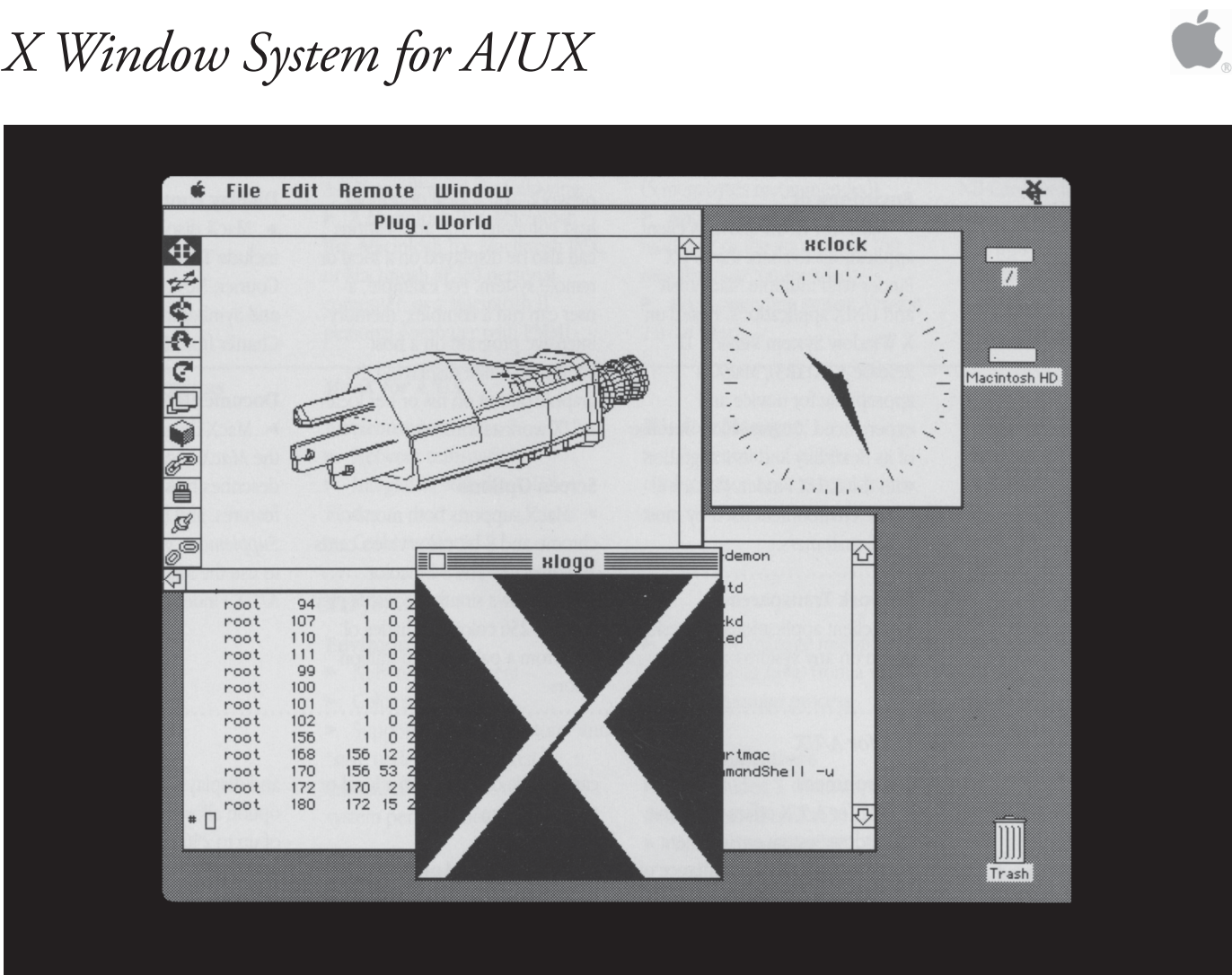


Features	Benefits
<b>X11 for A/UX</b>	
► X Window System Version 11 Release 4 server	► Increases processing speed and reduces memory usage.
► X client applications	► Provides utilities, such as a terminal emulator, clock, and calculator, and applications that assist in X client application development.
► Support for 1-bit black-and-white display and 256-color display with an 8-bit video card	► Permits display of X client applications in black and white or in 256 colors or shades of gray.
► Support for multiple-screen display	► Lets users display an X client application on any monitor connected to an A/UX system.
► Xlib and Xtk library and toolkit	► Allows users to develop X client applications.
► Hardware-independent applications	► Simplifies porting of X client applications to different hardware architectures.
► Network transparency	► Allows X client applications running on remote host computers to display graphics on a user's local A/UX system.
► User and reference manuals	► Provides documentation on using X11. ► Provides reference pages that describe X11 commands.




## Overview

Apple's X Window System for the A/UX® operating system lets A/UX users run X client applications that have the familiar, intuitive interface of the Apple® Macintosh® personal computer. The A/UX Finder™ software, a special version of the Macintosh MultiFinder® adapted for A/UX, allows users to run X client applications, Macintosh productivity applications, and UNIX programs concurrently—all with the Macintosh computer's ease of use. From any Macintosh running A/UX, technical users, software developers, and novice users alike can take advantage of the highly portable, network-transparent X Window System.

The X Window System is the result of years of development work by researchers from industry and from the Massachusetts Institute of Technology (MIT). Apple's X Window System for A/UX complies with the standards and conventions stipulated by the MIT X Consortium.

The X Window System for A/UX includes two separate X components. The first, MacX™, allows X Window System client applications to share the A/UX Finder desktop with Macintosh and UNIX applications. The second, X11, is for more experienced or technical X Window System users, and offers the native X Window System environment with no access to Macintosh functionality.

	<i>X Window System for A/UX</i>		
Ordering Information	X Window System for A/UX	Order No. M0411LL/A	With your order, you'll receive: ▶ X Window System for A/UX software: —14 installation disks for X11 —6 installation disks for MacX ▶ <i>Getting Started with X Window System for A/UX</i> ▶ <i>MacX User's Guide</i> ▶ <i>MacX for A/UX Supplement</i> ▶ <i>X11 User's Guide for A/UX</i> ▶ <i>X11 Reference for A/UX</i> ▶ Limited warranty statement
	X Window System for A/UX Site License	Order No. M0747LL/A	
	X Window System for A/UX Right to Copy	Order No. M0749LL/A	
	X Window System for A/UX Manual Set	Order No. M0748LL/A	
	For the name of the nearest authorized Apple A/UX and X Window System dealer, call 1-800-538-9696.		

## Features

### *MacX for A/UX*

- ▶ A/UX Finder integration
  - ▶ Lets users run X client applications, Macintosh productivity applications, and UNIX applications concurrently on A/UX Version 2.0 (or later).

- ▶ Familiar, intuitive Macintosh user interface
  - ▶ Makes it easy to use X client applications.
  - ▶ Eliminates the time-consuming task of entering long command lines.
  - ▶ Is consistent with traditional Macintosh manipulation methods.

- ▶ Text cut-and-paste function
  - ▶ Lets users cut and paste text between X, UNIX, and Macintosh applications.
  - ▶ Network transparency
  - ▶ Allows X client applications running on remote host computers to display graphics on a user's local A/UX system.

- ▶ Optional rooted mode
  - ▶ Gives users the flexibility to consolidate X client applications in a single window.

- ▶ Sample X Window System Version 11 Release 3 client application
  - ▶ Lets users explore MacX capabilities immediately after installation.

- ▶ Support for black-and-white display and for 8-bit color display
  - ▶ Allows for the simultaneous display of up to 256 colors or shades of gray from a palette of 16 million colors.

- ▶ User manuals
  - ▶ Provides documentation on installing MacX, using MacX with A/UX Version 2.0, and exploring the extended features of MacX.

## Benefits

## Product Details

### *MacX for A/UX*

#### Environment

- ▶ MacX for A/UX allows X client applications to share the A/UX Finder with multiple Macintosh and UNIX applications. Based on X Window System Version 11 Release 3 (X11R3), MacX is appropriate for novice and experienced X users alike. Because of its flexibility and its integration with the A/UX Finder, MacX will be the environment used by most A/UX customers.

#### Network Transparency

- ▶ X client applications can reside or run on any system on the

network—on a local or remote host computer. The applications can also be displayed on a local or remote system. For example, a user can run a complex, memory-intensive program on a host computer, while displaying the graphic output on his or her local A/UX workstation.

#### Screen Options

- ▶ MacX supports both mono-chrome and 8-bit color video cards and displays. The 8-bit color option allows simultaneous display of up to 256 colors or shades of gray from a palette of 16 million colors.

#### Display Fonts

- ▶ MacX display font families include Times®, Helvetica®, and Courier; New Century Schoolbook and Symbol from Adobe; and Charter from Bitstream.

#### Documentation

- ▶ MacX documentation includes the *MacX User's Guide*, which describes how to use MacX features, and the *MacX for A/UX Supplement*, which explains how to use the MacX server from the A/UX Finder.

### *X11 for A/UX*

#### Environment

- ▶ X11 for A/UX offers the native X Window System environment with the improved performance of the X Window System Version 11 Release 4 (X11R4) server. X11 takes over the console display and does not allow access to the Macintosh functionality provided by the A/UX Finder.

#### Network Transparency

- ▶ X11 client applications can reside on any system on the network—on a local or remote host computer. The applications

can also be displayed on a local or remote system.

#### X Libraries and Applications

- ▶ Standard libraries, include files, applications, and utilities are provided for X client application development.
- ▶ X11 display font families include Times, Helvetica, and Courier; New Century Schoolbook and Symbol from Adobe; and Charter from Bitstream.

#### Screen Options

- ▶ X11 supports both mono-chrome and 8-bit color video cards

and displays. The 8-bit color option allows simultaneous display of up to 256 colors or shades of gray from a palette of 16 million colors.

#### Documentation

- ▶ X11 documentation includes the *X11 User's Guide for A/UX*, which describes how to use X11, and the *X11 Reference for A/UX*, which describes command usage and the programming libraries.

### System Requirements

To use the X Window System for A/UX, you'll need the following:

- ▶ A Macintosh IIx, Macintosh IIfx, Macintosh IIfx, Macintosh IIfx, Macintosh IIfx, or Macintosh SE/30 personal computer; or a Macintosh II personal computer with PMMU

- ▶ At least 4 megabytes of RAM (5 megabytes recommended)
- ▶ Apple 80-megabyte (or larger) hard disk or the equivalent (160 megabytes recommended)
- ▶ A/UX operating system Version 2.0 (or later)

- ▶ Optional: an Apple EtherTalk® NB Card for the Macintosh II family of computers, or an equivalent Ethernet card for the Macintosh SE/30 (use of Ethernet is recommended)

### Technical Specifications

#### *MacX for A/UX*

##### Environment

- ▶ Network transparent
- ▶ Integrated with the A/UX Finder
- ▶ Color support

##### Window Manager

- ▶ User control of screen configuration and customization

- ▶ Customized to use the Apple Desktop Bus™ (ADB) mouse and all ADB keyboards

#### *X11 for A/UX*

##### Environment

- ▶ Network transparent
- ▶ Color support
- ▶ Support for “backing store” and “save under,” features that dramatically improve window system performance

Ability to manage multiple screens (using *twm*) from a single window manager process

##### Client Applications

- ▶ All included X client applications are based on X11R3
- ▶ Terminal emulator with Digital VT102™ and Tektronix 4014 compatibility (*xterm*)
- ▶ Calculator (*xcalc*)
- ▶ CPU performance meter (*xload*)
- ▶ Clock (*xclock*)

- ▶ Bitmapped image manipulation utilities, including conversion from screen image to PostScript® format (*bitmap*, *xdpr*, *xwd*, *xwud*, *xpr*)
- ▶ Mouse-based screen editor (*xedit*)
- ▶ Font displayer (*xfid*)

##### Window Manager

- ▶ User control of screen configuration and customization
- ▶ Customized to use the Apple Desktop Bus (ADB) mouse and all ADB keyboards

##### C Libraries

- ▶ Application development toolkit (X Toolkit intrinsics and Xaw Athena widget set)
- ▶ Graphics library (Xlib)
- ▶ Include files