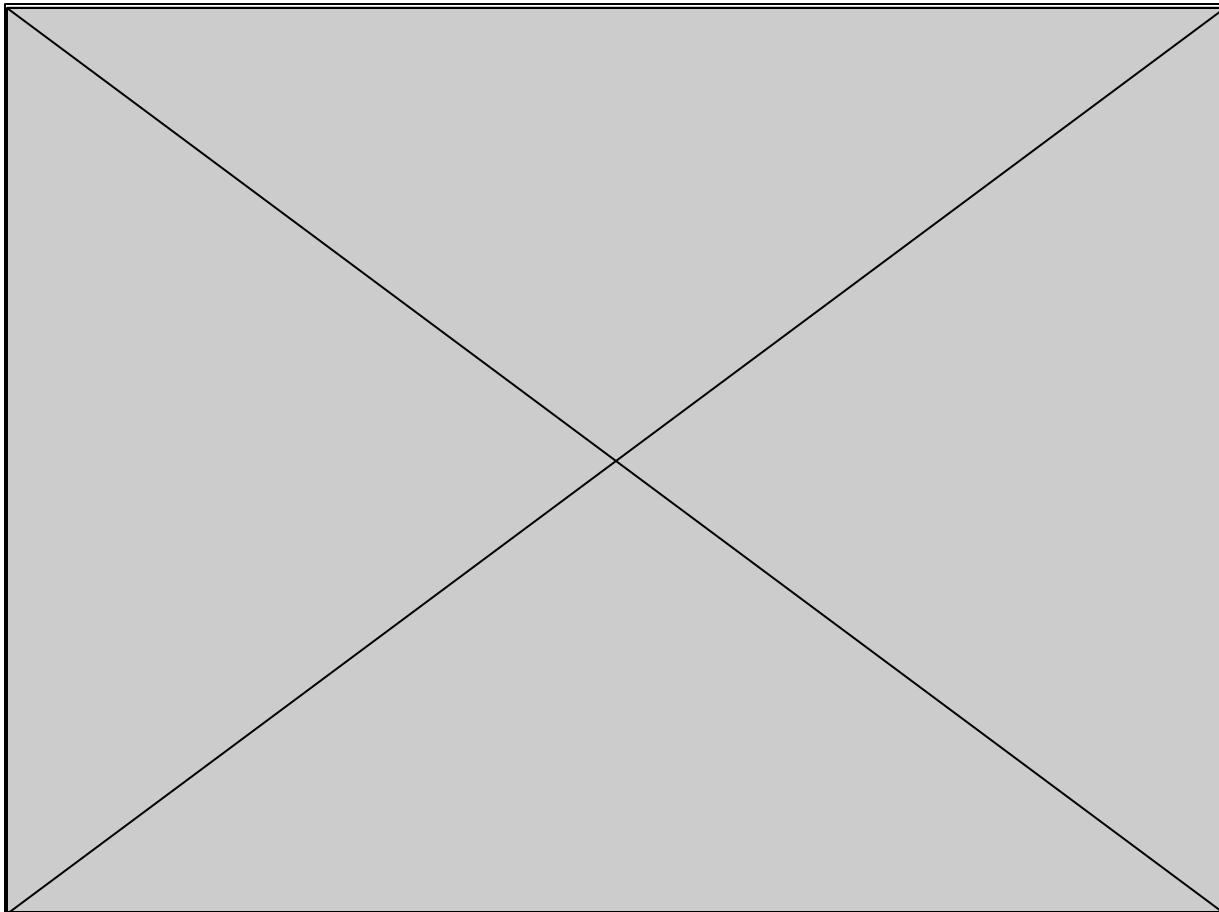# X Window System 2.1 for A/UX

Overview

Apple Computer's implementation of X Window System[s], Version 11, Release 4 for the A/UX® operating system provides two distinct products: X11 and MacX[s].

The first, X11, delivers a native X Window System environment that is well-suited for technical users and software developers. X11 provides a full development environment, including X programming libraries, the X Toolkit intrinsics, and the Athena Widget Set.

The second, MacX, allows X applications to share the A/UX software Finder[s] desktop with Macintosh® and UNIX® applications. With MacX, users can open frequently-used X client applications by just choosing a command from a Macintosh pull-down menu.

Both X11 and MacX allow users to 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 the computer industry and from the Massachusetts Institute of Technology (MIT).

Apple Computer's X Window System for A/UX complies with the standards and conventions set by the MIT X Consortium.

	Features	Benefits
X11 for A/UX	· X Window System, Version 11, Release 4 server	· Optimizes graphics performance and memory usage
	· Native X Window System user environment	· Provides X Window System environment suitable for displaying client application running on other hardware platforms
	· Complete X11 Release 4 development tools	· Allow users to develop X applications using the Xlib library and the Xtk Toolkit
	· Sample widget set	· Includes MIT Athena Widget Set, suitable for customization
	· X Window System, Version 11, Release 4 client applications	· Provides desktop client applications, such as oclock and xcalc; utilities, such as xterm (X terminal emulator); and development tools
	· Support for 1-bit black-and-white display, and 256-color display with an 8-bit video card	· Permits display of X client applications on any monitor connected to an A/UX system
	· Support for multiple-screen display	· Lets users display an X client application on any monitor connected to an A/UX system
	· User and reference manuals	· Provide documentation on using Apple Computer's X Window System for A/UX · Provide reference pages that describe X11 commands, client applications, and programming libraries
MacX for A/UX	· A/UX Finder integration	· Lets users run X client applications, Macintosh productivity applications, and UNIX applications concurrently on A/UX

Product Details

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 server. X11 controls the display and does not allow access to the A/UX Finder.

Network transparency
· X11 client applications can reside on any system on the network--on a local computer or a remote host computer. The applications can also be displayed on a local or remote system. X libraries and applications

· Standard libraries, standard include files, applications, and utilities are provided for X client application development. These include libX11, libXau, libXaw, libXdmcp, libXext, libXinput, libXmu, libXt, and liboldX.
· X11 display font families include Charter, Clean, Courier, Helvetica®, Lucida, New Century Schoolbook, Symbol, and Times®.

Screen options
· X11 supports both monochrome 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 X11 User's Guide for A/UX, which describes how to use X11; and two reference guides, X11 Command Reference for A/UX and X11 Programmer's Reference for A/UX, which describe command usage and the programming libraries.

MacX for A/UX

Environment
· MacX allows X client applications to share the A/UX Finder with multiple Macintosh and UNIX applications. MacX is appropriate for novice and experienced users alike.

Documentation
· MacX documentation includes MacX User's Guide, which describes how to use MacX features.
· MacX for A/UX Supplement describes how to use the MacX server in the A/UX Finder environment.

....

Required equipment
To use the X Window System for A/UX, you'll need the following:
· Macintosh IIfx, Macintosh IIci, Macintosh IIx, Macintosh IIcx, Macintosh IIsi, or Macintosh SE/30 personal computer; or Macintosh II 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, A/UX Version 2.0.1, or later versions

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

X Window System 2.1 for A/UX

Technical Specifications	X11 for A/UX	· Ability to manage multiple screens (using twm) from a single window manager process	· Bitmapped image manipulation utilities, including conversion from screen image to PostScript® format (bitmap, xdpr, xwd, xwud, xpr) Widget browser (viewres)
	Environment · Network transparency · Color support · Support for "backing store" and "save under" features that dramatically improve window system performance	Client applications · All client applications are based on X11 Release 4 · Terminal emulator with DECš VT102š and Tektronix 4014 compatibility (xterm) · Mouse-based screen editor (xedit)	· Font displayer (xfd) C libraries · Full application development toolkit (X Toolkit intrinsics and Xaw Athena Widget Set)
	Window manager · User control of screen configuration and customization	· Manual page browser (xman)	· Graphics library (Xlib) · Include files
	MacX for A/UX	· Color support · Full international character set support	· User control of screen configuration and customization
	Environment · Network transparency · Integrated with the A/UX Finder	· Window Manager	

Ordering Information	X Window System 2.1 for A/UX Order No. M0411LL/B	With your order, you'll receive X Window System 2.1 for A/UX software: --15 installation disks for X11 --6 installation disks for MacX	--X Window System 2.1 for A/UX documentation, which includes · Getting Started with X Window System for A/UX · MacX User's Guide · MacX for A/UX Supplement · X11 User's Guide for A/UX · X11 Command Reference for A/UX · X11 Programmer's Reference for A/UX
	X Window System Site License	Order No. M0747LL/B	
	X Window System 2.1 for A/UX Right to Copy	Order No. M0749LL/B	
	X Window System 2.1 for A/UX Manual Set	Order No. M0748LL/B	

For the name of your nearest authorized Apple A/UX and X Window System dealer, call 800-538-9696.