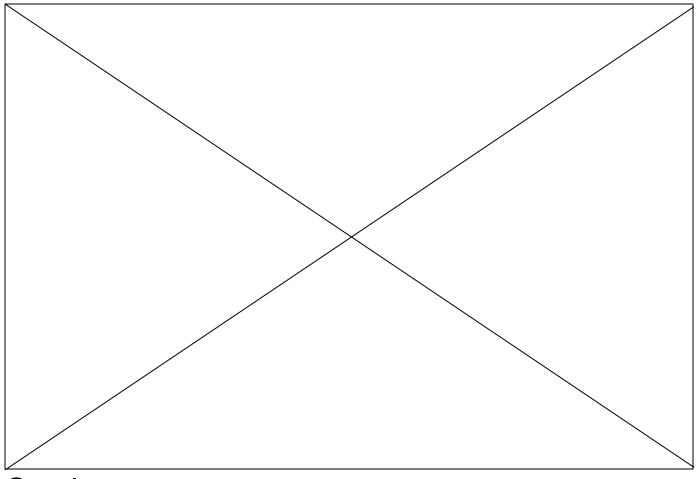
AppleA/UXOperatingSystemVersion2.0.1



Overview

The Apple® AUX® operating system, version 2.0.1, gives users access to the familiar, intuitive desktop of the Macintosh® computer within the UNIX® environment. By using A/UX 2.0.1, users can run multiple Macintosh productivity applications, UNIX applications, and XW indow System applications simultaneously. A/UX2.0.1 is a complete UNIX implementation that incorporates the easy-to-use Vacintosh desktop. This industry-standard, multitasking operating system is uniquely capable of meeting the varied needs of large corporations, government, universities, and technical users who require UNIX. A/UX complies with the relevant UNIX standards, and supports industry-standard networking, communications, and windowing system products. A/UXisavailableonallmodels ofthe Macintosh II personal computer and on the Macintosh SE/30 personal computer.



 Macintoshlookandfeel Supportforthe MultiFinder® environment Macintosh-stylestartupandshutdown Supportfor32-bitColorQuickDraw^s software 	 Provides the benefits of the intuitive, graphics-based/Macintoshdesktop with point- and-click access to all your work. Allows you to open multiple applications concurrently. Lets you easily integrate information from multiple applications by cutting and pasting between them. Allows you to continue working with applications while performing other tasks. Allows you to easily start up and shut down without needing to know the technical details of the A/UX environment. Gives you access to the full range of Macintosh graphics capabilities, including true color and full gray scale.
 Support for multiple types of applications within the Macintosh desktop environment, including UNIX System V/BSD4.3 applications Macintosh applications XWindow System applications (add-on) Hybrid applications (UNIX applications that use the Macintosh Toolbox) 	Lets you run multiple UNIX, Macintosh, and XWindowSystemapplicationssimultaneously from the Macintosh desktop.
 UNIX integration UNIX shell windows on the Macintosh desktop Mouse-driventexteditor MacintoshandUNIX filesystems Commando (UNIX command builder) 	 Providestraditional UNIX shells (C, Korn, or Boume) from within Macintosh windows. Lets you edittext files using a Macintosh and mouse-driveneditors, and eliminates the need to learn a text editor such as vi. Allowspoint-and-click access to UNIX, BSD, and Macintosh filesystems. Lets users-even those who use UNIX only occasionally-build UNIX commands from menu selections.
-Cut-and-pastetextediting -PrinterandAppleShare®fileserverselection throughtheChooser	 Lets you cut and pastet ext between UNIX, Macintosh, and XWindow System applications. Simplifies selecting a printer or Apple Share file server through the use of the Chooser, a standard Macintosh deskaccessory.

Features

Benefits

 Enhanced compliance with additional UNIX standards, including IEEEPOSIX1003.1-1990 Berkeley File System NFS (Network File System), Version 3.2 Shared libraries XWindow System support 	Complies with all relevant UNIX standards (including AT&TSVID, IEEE POSIX 1003.1-1990, and FIPS #151-1), letting you portexisting UNIX applications to A/UX with minimal effort.
 Built-in Macintosh networking capabilities, including Apple Talk[®] printing support Apple Share file access 	Allows Macintosh applications to share printers and use Apple Share files over an Apple Talk network system, using on-board Local Talk [®] or Ether Talk [®] (sharing the same Ethernet board with TCP/IP protocols).
Additional hardware and software support	
-Macintosh Ilfx	RunsonallMacintoshIIsystems, as well as the MacintoshSE/30.
-Serial printing	Lets you print documents on a serially connected Laser Writer® printer or Image Writer® printer.
SuperDrive ^š	Allows users to store data on and retrieve data from 400K, 800K, or 1.44MB floppy disks.
-Slot, Serial, and Sound Managers	Allows use of Macintosh applications that access the Macintosh Toolbox Slot, Serial, and Sound Managers of tware.
-Sound	Supports applications that take advantage of Macintosh sound capabilities.
-MacTCP®	Allows use of Macintosh applications that access MacTCP for TCP/IP connectivity.
-Macintosh Communications Toolbox	Lets an application "talk" to the Toolbox, without requiring the application to designate a communications protocol.
International support	Accepts8-bitcharacters and alternative charactersets, so that Macintosh and A/UX developers can create A/UX applications in many languages, such as Danish, Dutch, Finnish, Flemish, French, German, Italian, Norwegian, Portuguese, Spanish, and Swedish.

Standards compliance

• The AUX operating system is source-licensed from AT&T, and meets System V Interface Definition (SVID) specifications. Extensions from Berkeley Software Distribution (BSD) Release 4.3 are included. A/UX2.0.1 complies with both the Federal Information Processing Standard (FIPS) #151-1, the IEEE POSIX 1003.1–1990, and ISO 9945-1.

Macintosh applications execution

Macintoshapplicationsthat adhere to the specifications for the Macintosh32-bitenvironment (referredtoas"32-bitclean"), as documented in Inside Macintosh, run in the A/UX environment withoutchange.Mostmajor Macintoshproductivityapplications, such as Microsoft Word 4.0, Wingz, MacWrite II, and Hyper-Card®, are 32-bit clean. In addition, asatransitionarystep, A/UX2.0.1 offers an optional 24-bit mode. Selected during logon, this mode allowsexecutionofolder Macintoshapplicationsthatarenot 32-bitclean.MacintoshToolbox features--includingprinting, sound, and color-are supported in AUX2.0.1.

MultiFinder

• With MultiFinder, the interface for AUX, users can run Macintosh and UNIX applications concurrently, and can switch between Macintosh and UNIX applications quickly and easily.

UNIX integration

 AUX integrates the functionality of UNIX with the Macintosh MultiFinderenvironment. Users have point-and-click access to every file on their system. They can use a Macintosh mouse-driven editor for text files, cut and paste text between applications, and select printers and Apple file servers in the familiar Macintosh way. AT&T, BSD, and Macintosh filesystemsareaccessible seamlesslythroughiconsonthe desktop.

Multitasking and virtual memory support

AUX2.0.1 supports the execution of multiple processes simultaneously. Under MultiFinder, multiple Macintoshapplications canruns imultaneously, as they can when you use MultiFinder with the Macintoshoperating system. At the same time, multiple UNIX and XWindow System applications can run in Macintosh windows. A/UX also provides virtual memory, allowing users to run more applications than the physical memory in the system can hold.

Communications

AUX provides standard UNIX communications, such as cuand uucp.aswellasmoreadvanced communicationstandardsfrom UNIX(TCP/IP)andMacintosh (AppleTalk).Userscanconnect TCP/IPnetworksusingEthemetor seriallines(SL/IP).WithTCP/IP, userscantakeadvantageof XWindowSystem,Berkeley NetworkingServices,NFS,and Network Information Services. UserscanalsoconnecttoApple-TalknetworksusingEtherTalk (sharing the Ethernet connection with TCP/IP protocols) or LocalTalk.WithAppleTalk,users cantakeadvantageofAppleTalk printingandAppleSharefile services (clientonly).

Text editing and processing

AUX2.0.1 providesa
Macintosh-stylemouse-driventext
editor, as well as the standard
UNIX text-editing and processing
utilities, including vi, ex, ed,
ditroff, nroff, tbl, eqn, and pic.
A/UX2.0.1 also includes the
TranScript utility from Adobe
Systems for formatting output to
LaserWriterprinters.

Programming

AUX2.0.1 offersanassembler, aCcompiler.anANSI standard Fortran compiler, debuggers, the SourceCodeControlSystem (SCCS), and related tools to assist indevelopingnewapplicationsor portingexistingsoftwaretoA/UX. A/UX2.0.1 also includes a set of **UNIXIbrariesthatallowC** programstoaccessthefunctionalitvofthe Macintosh Toolbox.so thatA/UX applications can present thegraphics-baseduserinterface familiartoMacintoshusers, as well asthetraditionalUNIX appearance. Numerousotherlanguagesand toolsareavailable from third-party developers.

AppleCDSCsupport

 The AppleCD SC® drivecanbe usedasaread-only UNIX or Macintoshfile system of up to 500 MB, giving information systems providers an inexpensive distribution medium. The A/UX Macintoshenviron mentalso supports the Macintosh HFS file system on CDs.

Systemadministration

 AUX2.0.1 simplifies configuration and recovery. It automatically configures the smallest kernel possible, and simplifies the addition of new drivers. In addition, AUX2.0.1 keeps redundant copies of crucial files so that, in the event of adamaging system crash, it can automatically restore the system to be ready to return to the network.

 UNIX scripts are provided to aidinsystem administration functions such as connection of peripherals and modification of user information.

SystemRequirements	Tousethe Apple A/UX operating system Version 2.0.1, you'll need • One of the following personal computers –Macintosh SE/30 –Macintosh II with an Apple Paged Memory Management Unit (PVMU) –Macintosh IIX	 Macintosh Ilsi with a NuBus or 030 Direct Slot Adapter card Macintosh Ilci Macintosh Ilfx Macintosh Ilfx Aminimum of 4 megabytes dfRAM An Apple hard disk (minimum 80 megabytes) or the equivalent 	 An Apple monitor (or equivalent) that is compatible with A/UX 20.1 Optional Equipment For Ethernet connectivity, an Apple Ether Talk NB Card or the equivalent Additional memory An Apple CDSC drive
Technical Specifications	Portability standard AT&TUNIXSystemV, Release2, Version2 Compliant with the System V Interface Definition (SVID); passes the System V Verification Suite (SVS) BSD4.3 extensions, including signals, job control, groups, sockets, Berkeley/Networking Services, subnets, and Berkeley/File System Compliant with FIPS#151-1 Compliant with FIPS#151-1 Compliant with IEEE POSIX 1003.1–1990 Applications supported Macintosh applications that adhere to Inside Macintosh specifications AT&T and BSDUNIX applica- tions XWindowSystemapplications (with add-on package) Hybrid applications (UNIX applications using the Macintosh Toolbox) Macintosh look and feel Macintosh Stylestartup and shutdown Support for 32-Bit Color QuickDraw	UNIX integration UNIX commandbuilder UNIX commandbuilder UNIX shellwindows Nouse-drivenediting XWindowSystemsupport (add-on) Cut-and-pastetextediting PrinterandAppleSharefile server selection through the Chooser UNIX command-line interpret- ers for UNIX shell windows BoumeShell KomShell(1988) CShell Development tools Editingand processing utilities (Macintosh mouse editor, vi, ex, ed, ditroff, nroff, tbl, eqn, and pic) Assembler, Ccompiler, and ANSI standard Fortran compiler Sharedlibraries Lint, lex, yacc Debuggers(abd,sdb) Linker (Id) Sourcecontrol (SCCS, make, and other UNIX tools) Communications TCP/IP over Ethemetor over serial connection (SL/IP) Apple Talk printing and file sharing clientservices via Local Talk or Ether Talk Transparent file sharing over Ethemetor serial lines using NFS Version 3.2	 Remotelog-inandexecution, resource sharing, file transfer, and electronic mail with Berkeley Networking Services (from BSD 4.3) Domains and subnets X Window System for AUX (add-on) Highlights of hardware supported All Macintosh II personal computers and the Macintosh SE/ 30 Apple 20 MB, 40 MB, 80 MB, and 160 MB hard disk drives Apple 400 K, 800 K, and 1.44 MB floppy disk drives Apple CD SC drive, which provides CD-ROM support for both Laser Writer IINT, Laser Writer IINTX, and Laser Writer Plus printers; Image Writer Plus printers; Image Writer II and Image Writer LQ printers All Macintosh monitors and compatible third-party monitors All domestic Macintosh keyboards System administration Autorecovery Autoconfiguration Scriptsfor system administration functions

Ordering Information

Macintosh Ilfx A/UX System	OrderNo. B0266LL/B	With yourorder, you'll receive • Macintosh llfxpersonal computer with A/UX2.0.1 installed on an internal 160 MB hard disk; 4 MB of RAM
Macintosh Ilci A/UX System	OrderNo. B0264LL/B	 Macintoshllcipersonalcom- puterwith A/UX2.0.1 installedon anintemal80MBharddisk;4MB dfRAM
Macintosh IIcx A/UX System	OrderNo. B0263LL/B	• MacintoshIlcxpersonalcom- puterwithA/UX2.0.1 installedon anintemal80MBharddisk;4MB dfRAM
A/UX2.0 External 80MB Hard Disk	OrderNo. B0267LL/B	AUX2.0.1 installedonan Apple external 80 MB harddisk
AUX2.0.1 CD-ROM	OrderNo. B0270LL/B	• A/UX2.0.1 installedon a single compact disc, with the floppy disks required to install A/UX onto a hard disk
A/UX 2.0.1 Floppy Disk Products	OrderNo. B0269LL/B	File index disks, with 800K floppy disks containing AUX 2.0.1, as well as the floppy disks required to install A/UX onto a hard disk
A/UX2.0.1 Tape Product	OrderNo. B0268LL/B	• A/UX2.0.1 installedona 40MBtapecartridge (QIC-100 format), with the floppy disks required to install A/UX onto a harddisk
Eachoftheproducts just listed includes a 16-userright-to-use license for onesystem, a limited warranty statement, and an A/UX2.0 accessory kit, which contains the following.		 Manual: A/UX Installation Guide Five utility floppy disks Manual: A/UX Essentials Manual: Setting Up Accounts and Peripherals for A/UX Manual: Road Mapto A/UX Documentation

ManualSets	A/UXManualsUserKit	OrderNo. M0429LL/A	 Asetofmanualsforuserswho wantto use A/UX with traditional UNIX commands
	A/UXManualsAdministrator Kit	OrderNo. M0431LL/A	 Asetofmanualsforsystem administratorsofA/UXsystems andworkgroups
	A/UX ManualsProgrammer Kit	OrderNo. M0430LL/A	 Asetofmanualsforuserswho aredevelopingapplicationsfor AUX
	A/UXManualBundle	OrderNo. B0274LL/A	 Includesoneofeachmanual setlistedhere
UpdateProducts	A/UX Update Tape Product	OrderNo. B0271LL/B	• A40-MBtape cartridge (QIC- 100format) updating any version previous to A/UX 2.0 to Version 2.0.1
	A/UXUpdateCD-ROMProduct	OrderNo. B0273LL/B	 Asinglecompactdiscupdating anyversion previous to A/UX 2.0 to Version 2.01
	A/UX Update Floppy Disk Product	OrderNo. B0272LL/B	 Floppy disks updating any version previous to A/UX 2.0 to Version 2.0.1
	A/UX Update Manual Kit	OrderNo. B0275LL/B	 Asetofmanualsupdatingthe manualsofanyversionpreviousto A/UX2.0 to Version 2.0.1
	A/UXIncrementalSoftware ReleaseProduct	OrderNo. M0516LL/A	Floppydisksanddocumenta- tion updating A/UX 2.0 to A/UX 2.0.1. This product can only be installed on A/UX 2.0.
LicensingProducts	A/UX Right To Update	OrderNo. M0741LL/A	• The right to update one system with any previous version of A/UX to A/UX 2.0.1. (Available only to customerswhop urchased irectly from Apple Computer, Inc., and who have signed the "right to copy" agreement.)
	A/UX Right To Copy	OrderNo. M0740LL/A	 The right to copy A/UX 2.0.1 to one system. (Available only to customers who purchase directly from Apple Computer, Inc., and who have signed the "right to copy" agreement.)

For the name of your nearest authorized Apple A/UX and X Window System dealer, call 1-800-538-9696.



AppleA/UXOperatingSystemVersion2.0.1

Related Products and Services	Apple 68851 Paged Memory Management Unit (PMMU)	OrderNo.M0221
	Apple EtherTalk NB Card	OrderNo.M0405
	AppleCDSCDrive	OrderNo.M2700/B
	Apple Hard Disk 80SC	OrderNo.M2688/A
	X Window System for A/UX	OrderNo.M0411LL/A
	Inside Macintosh	AvailablefromAPDA ^š (described next)
	Technical Answerline	OrderNo.M0594LL/A
	A/UX Subscription Service	Referto appropriate data sheet for details.
Information for Programmers and Developers	TheAppleProgrammersand DevelopersAssociation(APDA) providesa wide range of develop- ment products and documenta- tionfrom Apple and other suppliers-for programmers and developers who work with Apple equipment. For information about APDA, contact:	AFDA Apple Computer, Inc. 20525 Mariani Avenue, M/S33G Cupertino, CA 95014 1-800-282-APDA(1-800-282-2732) Fax:408-562-3971 Telex:171-576 AppleLink®: address APDA
	If you plan to develop Apple- compatible hardware or software products for sale through retail channels, you canget valuable support from Apple Developer Programs. Write to:	AppleDeveloperPrograms AppleComputer, Inc. 20525MarianiAvenue, MS51W Cupertino, CA 95014

Apple Computer, Inc.

20525MarianiAvenue Cupertino,CA95014 (408)996-1010 TLX:171-576 ©1990AppleComputer, Inc. Apple, the Applelogo, AppleCDSC, AppleLink, AppleShare, AppleTalk, A/ UX, EtherTalk, HyperCard, ImageWriter, LacsetWriter, LocalTalk, Macintosh, MacTCP, and MultiFinderare registeredtrademarksof AppleComputer, Inc. APDA, QuickDraw, and SuperDrivearetrademarksof AppleComputer, Inc. MacWriteisaregisteredtrademarkofClarisCorporation. Microsoftis are registered trademarkofMicrosoftCorporation.NFS is a trademarkofSunMicrosystems, Inc. TranScriptisa trademarkofAdobe Systems Incorporated. UNIX is a registered trademarkofAT&TInformation Systems. WingzisatrademarkofInformixSoftware, Inc. NuBusisatrademarkofTexasInstruments. XWindow SystemsisatrademarkofInfIT. Productspecifications are subject to change without notice.

Productspecification safesubject to change without it. Printed in the U.S.A. M0660LL/B