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A/UX 3.0.1: Description (6/93)

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TOPIC -----

This article describes the A/UX 3.0.1 product.

DISCUSSION -----

The A/UX 3.0.1 offers the same features as A/UX 3.0 with the addition of asynchronous I/O, multibus SCSI (supported on the Quadra 900, Quadra 950, and Workgroup Server 95) and SCSI DMA driver support (requires additional hardware). A/UX continues to support AppleTalk and TCP/IP networking protocols. The System 7.0 user interface implemented on A/UX 3.0.1 makes it easy to install, use, and manage.

System requirements for A/UX 3.0.1 include a minimum of 8MB RAM. Compatible systems include are Macintosh SE/30, IIX, IISi, IICx, IICI, IIfx, Macintosh II (with PMMU upgrade), Macintosh Centris 650 (with FPU), and Macintosh Quadra 700, 800, 900, and 950. (Note: The Centris 610 is supported if it has an FPU; if it lacks an FPU, you need to seek out a third-party upgrade.)

A/UX 3.0.1 also requires at least an 80MB hard disk (160MB or larger recommended for full installation) and an AppleCD SC, AppleCD SC Plus, AppleCD 150, AppleCD 300, or equivalent to install A/UX

Kernel

- AT&T UNIX System V, Release 2, Version 2 with 32-bit addressing, demand-paged virtual memory architecture, pre-emptive scheduling, interprocess communication
- BSD 4.3 extensions including signals, job control, sockets, Berkeley networking and fast filesystem (UFS)
- Support for SCSI DMA, multiple SCSI buses, and asynchronous input/output

Toolbox

- Macintosh System 7.0.1, optimized for UNIX
- Features: TrueType, AppleEvents & PPC, 32-bit QuickDraw, Balloon Help, Data Access Manager, Aliases, 24-bit and 32-bit addressing
- A/UX File Manager supports transparent access to Macintosh and UNIX filesystems, full asynchronous I/O, and ability to concurrently open up to 5000 files
- A/UX Finder for organizing and locating information on UNIX and Macintosh filesystems
- QuickTime 1.5

Networking and Collaboration

- Berkeley TCP/IP protocol stack and commands, including Telnet, FTP, rlogin, rcp, and remsh
- CSL/IP
- NFS 4.1 and NIS
- AppleTalk protocol stack, including ADSP and AFP
- AppleEvents, AppleShare client, and FileSharing
- MacTCP 1.1 provides interface to kernel TCP/IP services for Macintosh applications
- X Window System 11R4 server, fonts, libraries, and client applications
- MacX 1.2 server

Development Tools

- Bourne shell, Korn Shell, and C Shell
- Text editing and processing tools, including vi, ex, ed, sed, ditroff, nroff, tbl, eqn, and pic
- Assembler, K&R C compiler, and ANSI FORTRAN compiler
- Linker and shared libraries
- Lexx, yacc, and lint
- adb and sdb debuggers

- SCCS, RCS, and make version control

Installation and Configuration

- One-button Easy Install with option for custom installation
- A/UX Apple Hard Disk SC Setup formats, partitions, and creates file systems on Apple and third-party drives
- System administration scripts simplify routine tasks like adding users
- Memory Control Panel for tuning the UNIX buffer cache
- Macintosh-style text editor

Standards Conformance

- Compliant with AT&T System V Interface Definition (SVID) as verified by System V Verification Suite (SVVS)
 - Certified by National Institute of Standards and Technology as compliant with FIPS #151 (IEEE POSIX 1003.1-1990, and ISO 9945-1)
- Copyright 1993, Apple Computer, Inc

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