



Tech Info Library

Changes from A/UX 3.0 to 3.0.1 (6/93)

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TOPIC -----

This article outlines the changes made from A/UX 3.0 to A/UX 3.0.1.

DISCUSSION -----

AppleTalk

- AppleTalk-only network support
- UNIX AppleTalk PAP server routines no longer supported
- UNIX AppleTalk ATP response and request routines not supported

Configuration Changes

- SVFS not configured in kernel by default
- On-board Ethernet driver (ao) configured in kernel by default
- Kernel variables, see tables below
- Default memory footprint of virtual Mac environment (16 MB)

Kernel Enhancements

- Asynchronous I/O
 - asio daemon
 - asioread(2), asiowrite(2), asiowait(2)
- Semaphores
- Memory locking
- Improved kernel bcopy() for 68040s
- Sync daemon

Devices and Peripherals

- Multiple SCSI bus support includes:
 - gdisk and sdisk
 - device nodes, /dev/dsk/cB0Id0sP
 - HD SC Setup

- Installer
- devscsi
- Commando dialog for mount
- pname
- CD-300
- 500MB and 1GB hard drives
- DAT drives

UNIX Filesystem Enhancements

- Dynamic inode allocation
- catsearch daemon
- Extended (Macintosh) attributes

A/UX Macintosh File Manager Enhancements

- Asynchronous I/O
- Support for more than 500 Open Files
- Environment variables
 - CR-LF mapping for text files, TBTRANSLATEUXONLY
 - file name case insensitivity, TBFMIGNORECASE
 - Pathname separator, i.e., '/' translation, TBTRANSLATESLASHES

Eschatology Not Supported

- No Eschatology partitions
- No more esch, eu, eupdate commands

Installer

- Easy Install server (F/P & DB) packages and partition maps
- Easy Install uses all available space for "Root & User" partition
- Installs alias to A/UX Startup in Startup Items of MacPartition

HD SC Setup

- Multiple SCSI bus support, including Previous & Next buttons
- New Database partition ("raw" partition w/o any filesystem)
- Modified "Free UNIX Partition" now prompts for slice number
- Improved user interface of UNIX filesystem mount point dialog
- Default UFS mount point is "Untitled#" in "/Shared Data"

Other enhancements

- Improved memset() and memcpy()
- Bug fixes
 - UUCP

- Support for large drives and partitions (2 MB)
- Support for 1024x768 (19") third-party monitors
- Auto-login support
- Buffer cache control
 - New Memory CDEV
 - New NBUF value (-1 == 50%)

Integration

- Retrospect Remote bundled
- Doc Viewer and on-line Server
- Applications, Documentation and Shared Data folders in / (root)

Miscellaneous

- Default notification level in CommandShell
- System Folder Alias in /
- lpd(1m) turned off by default in /etc/inittab

Kernel Configuration Parameters Introduced in 3.0.1

Variable	Description	Default
GNOFILE	Global File Table (used by Mac environment)	6144
MSGMAP	Message Map Entries (used by msgop(2))	200
MSGMAX	Maximum Message Size (used by msgop(2))	8192
MSGMNB	Max. Message Queue Size (used by msgop(2))	16384
MSGMNI	Message Queue Identifiers (used by msgop(2))	50
MSGTQL	Number of Message Headers	200
NASIOD	Number of Asynchronous I/O Daemons	4
NASIOQ	Asynchronous I/O Request Queue	128
SEMMAP	Semaphore Map Entries (see semop(2))	50
SEMMNI	Semaphore Identifiers (see semop(2))	50
SEMMNS	Total Number of Semaphores (see semop(2))	300
SHMMNI	Shared Memory Segment Identifiers (shmop(2))	100

Kernel Configuration Defaults Modified in 3.0.1

Variable	File & Print	Database	3.0 Defaults
MAXSC	32	32	8
NBLK16	256	256	128
NBLK64	800	800	64
NBLK128	256	256	32
NBLK256	256	256	16
NBLK512	128	128	8
NBLK1024	300	300	8
NBUF	-1	0	0
NCALL	500	150	75
NFILE	7500	1024	256
NINODE	7500	1024	256

NMOUNT	32	32	10
NPBUF	64	64	20
NQUEUE	1200	1200	256
NSTREAM	200	200	32
SBUFSIZE	4096	4096	2048

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