



# Tech Info Library

## MAE 2.0: Versions Supported, OS and MAE Patch Required (5/96)

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Security: Everyone

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### TOPIC -----

This article discusses the compatibility of MAE with both Hewlett Packard (HP) HP-UX, and Sun Solaris, as well as any relevant patches that MAE requires for compatibility.

### DISCUSSION -----

IMPORTANT NOTE: Installation of any other OS patches (beyond those required for MAE to function properly) is at the sole discretion of the customer. Apple Computer, Inc. makes no recommendations regarding the administration and maintenance of workstations on which the MAE product is installed.

However, in some cases, there are known issues that are addressed by a specific patch from the respected company and Apple recommends to have these systems patched to allow MAE to operate properly.

### Current Versions Supported

HP-UX: 9.0.1, 9.0.3, 9.0.5, 9.0.7, 10.01 (MAE Patch 2 required for 10.01)  
Solaris: 2.3, 2.4, 2.5

NOTE: As of April 1996, HP-UX 10.1 is not supported with MAE 2.0.2.

### How Do I Determine Which OS Patches Are Installed

To determine which OS patches have been installed, use the following commands:

- For HP-UX:

what /HP-UX

- For Solaris

showrev -p

STREAMS (HP-UX only)

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MAE 2.0.x supports AppleTalk, which requires STREAMS (standard interfaces for I/O within the UNIX Kernel and between the kernel and user level). STREAMS is required on HP-UX 9.0.x. It is not required on HP-UX 10 and Solaris 2.x, as it is built into the OS.

HP-UX 9.0.1, 9.0.3: /cdrom/STREAMS/3STREAMS.TAR

HP-UX 9.0.5, 9.0.7: /cdrom/STREAMS/5STREAMS.TAR

Install all four file sets by using the /etc/update command:

```
/etc/update -rs /cdrom/STREAMS/3STREAMS.TAR '*'
```

or

```
/etc/update -rs /cdrom/STREAMS/5STREAMS.TAR '*'
```

OS Patches for HP-UX

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NOTE: HP patches tend to change often, and therefore this list may show outdated versions. The latest patch list can be found at the following URL:

<http://support.mayfield.hp.com/>

Patch levels used to validate MAE v2.0.2 with HP-UX 9.0.3, 9.0.5, 9.0.7 (HP-UX 10 requires no patches) are as follows:

PHKL\_6760 Mega-Kernel Patch. Originally noted as PHKL\_4605

PHNE\_6707 Networking Patch. Originally noted as PHNE\_3939

PHSS\_4341 Audio Patch

PHSS\_4568 X Server Patch. Originally noted as PHSS\_4485 (This patch is not necessary for 9.0.7)

Known issues related to patch level:

PHNE\_6707 Networking Patch. HP-UX 9.0.7, MAE 2.0.x freezes the HP-VUE Environment at startup

OS Patches for Solaris

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NOTE: Solaris patches tend to change often, and therefore this list may show outdated versions. The latest patch list can be found at the following ftp site:

sunsolve.sun.com.

Patch levels used to validate MAE v2.0.2 with Solaris 2.3 and 2.4 (Version 2.5 requires no patches) are as follows:

101318-75 Solaris 2.3 only, Jumbo patch for kernel  
101907-09 Solaris 2.4 only, Jumbo patch for volume manager (Originally 102077)

Known issues related to patch level:

101945-36 Non-networked SPARC. Solaris 2.4 only, apply if MAE hangs at startup.  
101907-05 Volume Manager Patch. Solaris 2.4 only, apply if CD/floppies do not mount, and macdisks.Solaris is configured correctly.

MAE Patches Required  
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The current patch for MAE is Patch 2. This brings the version of MAE up to 2.0.2. The patch can be found at one of the following:

- [www.mae.apple.com](http://www.mae.apple.com)
- [ftp.support.apple.com](ftp://support.apple.com)

It is recommended to upgrade to version 2.0.2, and is required for HP-UX 10.01. This Patch adds these features to MAE:

HP-UX Version 10.01 - (HP only)  
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HP-UX Version 10.01 can now be used with MAE. IMPORTANT: Be sure to read the file `README.PATCH.MAE2.0.2' on the FTP server prior to installing this patch to support HP-UX Version 10.01.

FDDI Support - (Sun only)  
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FDDI interfaces are now supported.

Ethernet Interfaces other than `le' - (Sun only)  
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MAE now supports Ethernet interfaces on Solaris such as qe. Previously, only le devices were supported.

Multiple Ethernet Interfaces  
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AppleTalk can now be used on any available (and supported) network interface. The Network Control Panel has been updated to add this functionality.

Persistent TIVs

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Persistent TIVs are no longer truncated during shutdown.

Locking Mechanism for System Folder Updates

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The updater utility for System Folders (part of the patch mechanism) no longer bypasses the file integrity lock if MAE is running. This only occurred under isolated circumstances.

Automounter Directory - (HP only)

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The automounter directory for HP-UX (default /tmp\_mnt) is now properly stasured.

Solaris 2.4 and Automounted Directories - (Sun only)

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MAE no longer truncates its internal file system list when executed in an environment with multiple remotely-mounted volumes. This symptom did not manifest itself under Solaris 2.3.

Sun 5 Keyboard - (Sun only)

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The 0 (zero) key on Sun's Type 5 keyboard now functions properly.

Command line options

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MAE will no longer exhibit random errors at startup based on the number of arguments supplied in the command line.

Updated man Page

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The online manual pages now reflect changes and features of MAE 2.0 that were omitted from the man pages supplied with the MAE 2.0 distribution.

Network Control Panel

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Opening the Network Control Panel will no longer result in an error message.

Attention Packets - (Sun only)

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Urgent ADSP messages are now delivered promptly to the MAE process. Previously, there was a delay in delivering these messages.

ADSP Close - (Sun only)

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Custom applications that send ADSP close packet now work correctly.

Utilization of Selected AppleTalk Zone

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A previously-selected AppleTalk zone is now being used as the default zone. In addition, a list of eligible devices is presented when selecting a network

resource (e.g., printer). This problem only occurred under isolated circumstances.

#### File Transfers Under TCP

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Fetch or other applications now pull large (>100K) files utilizing TCP correctly. (Smaller files were not affected.)

#### Saving Documents When Using MacinTax

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MacinTax is now able to save documents.

#### Users' Guide Updated - (HP only)

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The online Users' Guide for MAE now reflects features and changes present in v2.0 which were omitted from the MAE 2.0 distribution.

#### Debugging Options

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Additional command line options have been added to assist in debugging MAE 2.0 problems.

#### Support for CacheFS - (Sun only)

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New functionality was added to support CacheFS, a new file system introduced with Solaris 2.4.

#### Support For AFS (Andrew File System)

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Additional features have been added to support local cells for AFS.

#### Other Fixes

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Various minor bugs in MAE 2.0 are corrected in MAE 2.0.1

#### Article Change History:

13 May 1996 - Added HP-UX 10.1 note.  
26 Mar 1996 - Corrected information.

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