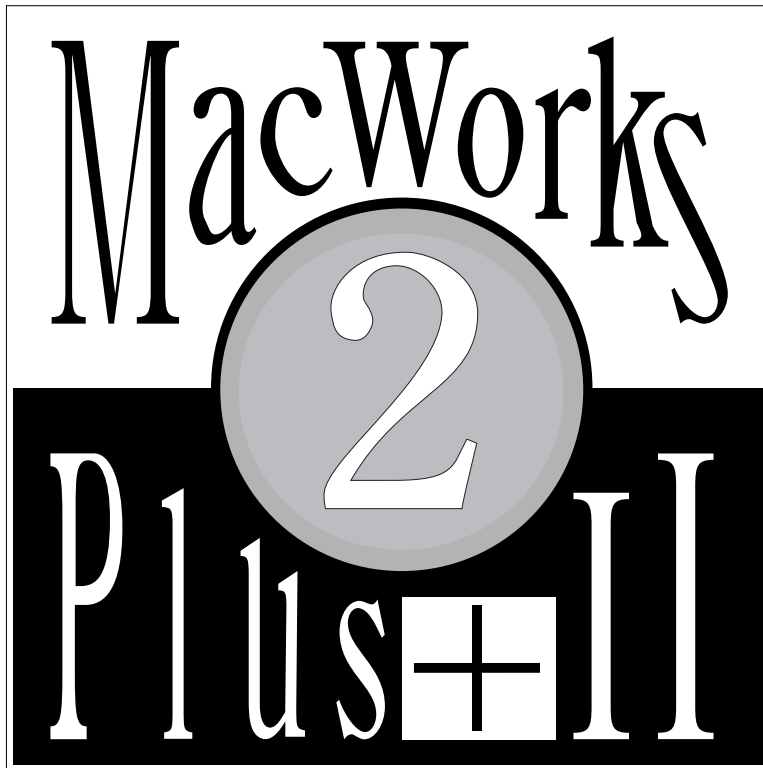


MacWorks Plus II

Series 1 Update



June, 1993

Manual Addendum

MacWorks Plus II

Series 1 Update



Manual Addendum

Dafax Processing Corp.

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Introduction

This is the first Series 1 Update for MacWorks Plus II PRO. It provides enhanced capabilities and features to those users who have purchased MacWorks Plus II PRO with Series 1 Updates. Those that have purchased MacWorks Plus II PRO without the updates will receive the features included in this update when the complete version of MacWorks Plus II Pro is released later this year.

Included in this MacWorks Plus II Package:

MacWorks Plus II Pro Series 1 Update Floppy Disk

This Series 1 Update for MacWorks Plus II PRO is provided on the “MacWorks Plus II Series 1 Update Disk”—an 800k Macintosh disk. This disk contains a new MW+II Install and new control panels.

Unlike the first MacWorks Plus II package you received, this update does not include a “MacWorks Plus II Boot Disk.” Instead, the update disk includes the “MW+II -> Floppy” application which will be used to create a new MacWorks Plus II Boot Disk (used as a X/Lisa **STARTUP FROM** disk).

MacWorks Plus II Series 1 Update Manual Addendum

This document is an addendum to the original MacWorks Plus II Installation and Usage Manual, and applies only to the new or different features introduced by this Series 1 Update. Continue to refer to your MacWorks Plus II Installation and Usage Manual for most information regarding MacWorks Plus II.

Compatibility

Hardware Requirements

This MacWorks Plus II Series 1 Update requires that you have purchased the PRO S1U level of MacWorks Plus II. If you are unsure as to the level of MacWorks Plus II you have, examine the PAL on your PFG. (Refer to figure 36 on page 89 of your Installation and Usage Manual for assistance in locating the PAL.) The PAL must be labelled PRO - S1U for you to be able to use the new features included in this Series 1 update.

Although it is possible to run System 7 on an X/Lisa with only 2Mb of memory with this Series 1 Update, you will find that more memory is necessary to make best use of the new features in System 7.

Software Requirements

This MacWorks Plus II Series 1 Update has been engineered to operate best with versions 6.0.8 and 7.0.1• of Apple Macintosh System Software (many earlier versions of the System Software will work well too).

This update does not support System 7.1, the next update to MacWorks Plus II PRO will support System 7.1.

New features provided by this Series 1 Update

System 7 Savvy

This Series 1 Update provides compatibility with Macintosh System 7. As on the Macintosh Plus, those features of System 7 that require a 68030 processor are not available (eg. virtual memory, 32 bit addressing, 32 bit QuickDraw). However, System 7 file sharing is supported, and MaxiRAM provides the ability to go beyond the Macintosh Plus barrier of 4Mb.

MaxiRAM™

This Series 1 Update introduces MaxiRAM to the X/Lisa. MaxiRAM allows MacWorks Plus II to break the 4Mb barrier and provide more available memory for applications and system software.

As an unmodified X/Lisa is capable of addressing a maximum of 2Mb, an XLerator is required in order for the additional memory to be available with MaxiRAM. In the next update, PseudoRAM™ may remove the requirement for an XLerator by using your hard disk for additional temporary storage (with reduced performance).

MaxiRAM is compatible with System 6 and System 7.

Installation

Preparing to Install

This Series 1 Update requires that you have previously installed MacWorks Plus II. If you have not done so, please follow the installation instructions in your MacWorks Plus II Installation and Usage Manual before continuing with the installation of this Series 1 Update.

Make a new Boot Disk

As this update does not include a separate Boot Disk, create one as follows:

Locate a spare (preferably unused) floppy disk which you will use as a new Boot Disk. Although you could update your previous MacWorks Plus II Boot Disk(s), it is best to save them in case you need them in an emergency.

Start-up MacWorks Plus II as usual and insert the “MW+II Series 1 Update Disk.”

Open the “MW+II -> Floppy” application from the floppy disk.

When the application requests that you “choose the installer for which you wish to make a corresponding boot disk,” select the “MW+II Install” application from the Series 1 Update disk.

When instructed to do so, insert the floppy disk that you wish to make into a boot disk. The application will ask you to confirm that you wish to make the disk into a boot disk, and then make the appropriate version of Boot Disk.

Install the Series 1 Update

You may install the new version of MacWorks Plus II while the old version is still running. (You do not need to start-up again with the Boot Disk created above.)

Refer to the “Installing the MacWorks Plus II software” section starting on page 27 of your MacWorks Plus II Installation and Usage Manual. After noting the changes that follow here, use the instructions in that section to install the new version of MacWorks Plus II.

- Where the Installation and Usage Manual refers to the floppy disk called the “MacWorks Plus II Install Disk,” use the Series 1 Update floppy disk instead.
- Where the Installation and Usage Manual refers to the application called “MW+II Basic Install,” use the “MW+II Install” application on the Series 1 Update floppy disk instead.

- **If you plan to install System 7...**

If you plan to install System 7 on your X/Lisa, load the new version of MacWorks Plus II *before* performing the System installation. To load the new version, select “Reset/Self Test” after installing on a parallel port hard disk, or ShutDown and power-up after placing the new MW+Loader and MW+ files in the System folder (for use by QuickBoot or an LSAC).

- **If you have QuickBoot™...**

If you have installed QuickBoot¹, follow the installation instructions as if you had an LSAC installed (see “Installing on a SCSI hard disk, LSAC installed” on page 40).

If you plan to install System 7, skip the section “Update your System Folder” and continue with “Install the new LSAC software” and “Re-load MacWorks Plus II” before performing the System installation.

If you install System 7, note that the MW+Loader and MW+ files must be put in the System Folder itself, and cannot be inside another folder within the System Folder (eg. do not put them in the “extensions” or “startup items” folder)

- **If you have an LSAC...**

If you plan to install System 7, skip the section “Update your System Folder” and continue with “Install the new LSAC software” and “Re-load MacWorks Plus II” before performing the System installation.

If you install System 7, note that the MW+Loader and MW+ files must be put in the System Folder itself, and cannot be inside another folder within the System Folder (eg. do not put them in the “extensions” or “startup items” folder)

- **If you have a parallel port hard disk...**

If you plan to install System 7 on a parallel port hard disk, load the new version of MacWorks Plus II before performing the System installation. To load the new version, select “Reset/Self Test” after running the installer for a parallel port hard disk, or Shut Down and power-up.

¹QuickBoot is a user installable upgrade for the Lisa SCSI card. It transforms the SCSI card into a **STARTUP FROM** device that allows MacWorks Plus II to be loaded directly from a SCSI disk. Like the LSAC, QuickBoot eliminates the need to use a boot floppy or parallel port hard disk each time you turn on the X/Lisa. QuickBoot is available now from Dafax Processing Corp.

After installing the MacWorks Plus II update...

When you have finished performing the installation above, copy the new control panels from the Series 1 Update Disk as follows:

If you have more than one hard disk, drag the “Startup Disk” control panel to your System Folder. If the Finder warns that a file of that name already exists, click Ok to replace it. (The “Startup Disk” control panel installed by Apple’s Installer will not show up in the Control Panel on the X/Lisa, you must use the one on the Series 1 Update Disk.)

If you have an XLerator, drag the new “XLerator” control panel to your System Folder.

If you have more than one **STARTUP FROM** device, drag the “Disks” control panel to your System Folder.

If your total memory exceeds 4 Mb (slot memory plus XLerator memory), drag the “MaxiRAM” control panel to your System Folder.

Configure the control panels

Refer to the sections below regarding the use of the new MacWorks Plus II control panels, and configure them as desired.

Re-load MacWorks Plus II

Shutdown, wait 20 seconds, and power-up to run the newly installed MacWorks Plus II and the updated System.

Using MacWorks Plus II PRO

System 7

This update provides compatibility with System 7.0 and 7.0.1. We recommend using System 7.0.1 with System 7 tune-up installed.

Using System 7 with MacWorks Plus II is very similar to using System 7 on a Macintosh Plus, so only the differences are mentioned here.

File Sharing

One of the new and impressive features of System 7 is the ability to share the hard disk connected to a Macintosh running System 7. This feature requires AppleTalk v56 (or higher) which is included in the System 7 software. Regrettably, AppleTalk v56 incorporates a number of enhancements that require more processing power than the stock X/Lisa can provide. As a result, sharing a hard disk connected to an X/Lisa requires that an XLerator² is installed (and turned on).

Without an XLerator (or if the XLerator is off), MacWorks Plus II reverts to AppleTalk v52 (the last version that is compatible with the stock X/Lisa). With AppleTalk v52, you may use network printers and mount AppleShare volumes (including those shared by other Macintosh computers running System 7).

One side effect of using AppleTalk v52 with System 7 is that AppleShare volumes must be mounted with the Chooser. If you attempt to mount a volume by opening an alias to an AppleShare volume, you will see the message "The shared disk couldn't be found on the network."

If you attempt to "Start" file-sharing using AppleTalk v52, you will receive the message "Please re-install your System Software." This indicates that AppleTalk v56, which is required for file-sharing, was not found. Re-installing the System software won't solve the problem, as AppleTalk v52 will still be substituted for the non-functional v56. If you later install an XLerator, AppleTalk v56 will become functional—you do not need to re-install the System software if you already have installed the file-sharing software.

²If you do not have an XLerator, ask your supplier about the new XLerator 12.5™. This XLerator has been designed to provide MaxiRAM support for up to 8 Mb of fast RAM and will be offered at a much lower cost than the original XLerator.

MaxiRAM

MaxiRAM allows your applications to access more than 4Mb of RAM. Like the Macintosh Plus, MacWorks Plus II *without* MaxiRAM is limited to 4Mb of RAM for System software and Applications.

MaxiRAM requirements

MaxiRAM requires that more than 4.5Mb of memory is installed in your X/Lisa. Currently this requires an XLerator to provide additional RAM (PseudoRAM may provide the necessary memory in the next update even without an XLerator).

MaxiRAM will operate with System 7, System 6 with MultiFinder, or System 6 without MultiFinder.

MaxiRAM control panel

MaxiRAM is controlled via the MaxiRAM control panel shown in figure 2.

The MaxiRAM check box indicates whether MaxiRAM will be installed the next time the X/Lisa is restarted.

To the right of the MaxiRAM check box is an indication of the current state of MaxiRAM—if MaxiRAM installed successfully at the last restart, it will report “currently on.” If MaxiRAM was not requested or could not be installed, it will report “currently off,” even though the MaxiRAM box may remain checked.



Figure 2. The MaxiRAM control panel.

MaxiRAM options

As PseudoRAM is not yet available, the three valid configuration options are Fast Only, Maxi-Cache, and Additive. These refer to operating modes of the XLERator, thus these controls duplicate some functions of the XLERator control panel.

Changing the Fast Only Mode setting will require reloading MacWorks Plus II via Shutdown/Reset. Changing between Maxi-Cache and Additive Mode requires a Restart. Turning MaxiRAM off or on without changing the operating mode requires a Restart.

Fast Only Mode

Fast Only Mode provides the best performance. If your XLERator has 4Mb (or less) installed, this MaxiRAM option will not provide additional memory. It is intended to be used when you have more than 4Mb installed on an XLERator 12.5 or the original XLERator (with appropriate modifications for SIMMs larger than 1Mb).

In Fast Only Mode, everything is loaded into fast memory (including MacsBug and startup documents).

Note that the XLERator Disk Cache does not install with MaxiRAM turned on; if you wish to use the slow memory (slot RAM) as disk cache, see Maxi-Cache Mode.

Maxi-Cache Mode

Maxi-Cache Mode provides performance similar to Fast Only Mode by configuring the memory as Additive Mode and then using all slow memory for disk cache. Note that in some circumstances, having such a large cache can reduce performance instead of increasing it—experiment.

Due to the different implementations of the cache software in Systems 6 and 7, the results will be somewhat different between these System versions.

With System 6, the memory for the cache is allocated after all startup documents have been loaded. As a result, Maxi-Cache can determine precisely what cache setting will use up the rest of slow memory. The startup documents (and MacsBug) will be installed in the slow memory before the cache is allocated.

With System 7, the memory for the cache is allocated before startup documents are loaded (although after MacsBug has installed). As a result, Maxi-Cache calculates the cache setting that will use up all available slow memory. Thereafter, startup documents will be installed in fast memory after the cache is allocated. If you wish your startup documents to install in slow memory, use Additive Mode and adjust the size of the cache manually (set to the amount of cache shown beside the Maxi-Cache button minus the amount of memory used by the startup documents).

Additive Mode

Additive Mode provides the most memory. As this is a combination of fast and slow memory, there is a noticeable change in performance when using an application that has loaded in slow memory.

With System 7 or MultiFinder, the Finder is loaded in the highest memory space available; if some slow memory remains after all startup documents have been loaded, the Finder will also be loaded into slow memory, and will exhibit some performance degradation.

Technical details

As the ROM image must be maintained in the 4Mb area, MaxiRAM allocates additional RAM above the ROM image. The ROM image thus divides the application memory space into two pieces, the first piece (below ROM) is about 3.2Mb, while the second piece (above ROM) contains whatever memory is left over (up to about 6Mb).

With MultiFinder, the split application memory prevents a single application from using both memory above and below ROM, typically limiting the maximum memory that a single application can use to 3.2Mb.

Using System 6 without MultiFinder, the application has access to both memory above and below ROM. Although the application memory is split internally, the entire memory will be allocated to, and used by the application.

In additive mode, the slow memory is placed above the fast memory, where it is used by startup documents and the disk cache before applications are loaded.

The space bar over-ride menu

As shown in figure 1 below, the space bar over-ride now includes the facility to adjust MaxiRAM at startup. Type the M key to toggle the on-off setting.

Note: Selecting “0 - NO CHANGE” will use the memory and SCSI modes stored in PRAM, but will use the *new* MaxiRAM setting (if it has been adjusted) instead of the setting stored in PRAM.

The MaxiRAM control panel reports whether MaxiRAM is installed by indicating “currently on” or “currently off.”

MaxiRAM will install only if:

- the space bar over-ride shows “MAXIRAM IS CURRENTLY ON”
- Fast-Only or Additive Mode is selected
- there is sufficient memory to install MaxiRAM (more than 4.5 MB).

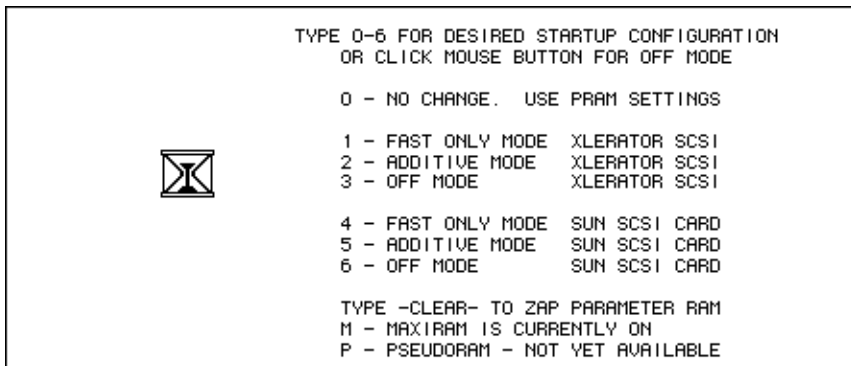


Figure 1. The MacWorks Plus II PRO space bar over-ride menu.

Startup Disk control panel

Included with your update is a “Startup Disk” control panel. This is Apple’s Startup Disk control panel from System 7.0.1, but is slightly modified so that it can be used on the X/Lisa. This control panel performs the same function as the “Startup Device” control panel in System 6; they can be used interchangeably.

This control panel allows you to choose the Macintosh System Disk (SCSI or Parallel) to be used at startup. This disk will be checked first for a valid System file and boot blocks after loading MacWorks Plus II from the **STARTUP FROM** device (set by the “Disks” control panel).

Refer to your Macintosh System documentation (not included with MacWorks Plus II) if you require more information on the Startup Disk control panel.

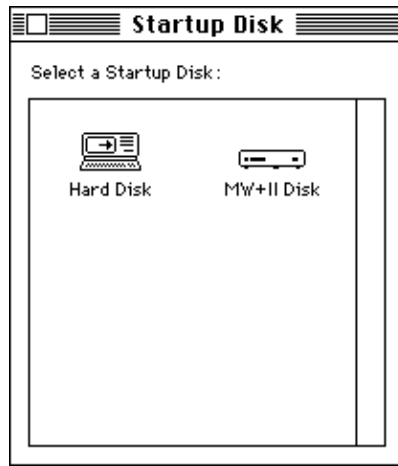


Figure 3. The Startup Disk control panel.

Compatibility note

This control panel is not compatible with MacWorks Plus 1.1h and earlier. Do not attempt to open the Startup Disk control panel unless MacWorks Plus II is running!

Newer versions of the Startup Disk control panel

If you wish to use a future version of the Startup Disk control panel, copy it to your System Folder from your System Update Kit Disk, and use Query’s Software Patcher to patch the new version. Without the patch, the new Startup Disk will report “The control Panel ‘Startup Disk’ cannot be used with this Macintosh.”

Disks control panel

As shown below, the Disks control panel now recognizes QuickBoot and refers to it by name instead of referring to the associated slot as SCSI (Bootable).

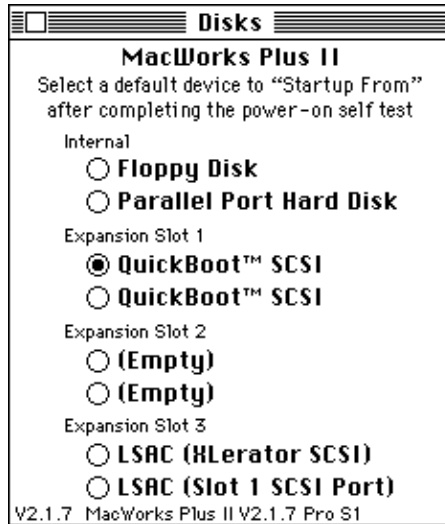


Figure 4. The Disks control panel.

For more information regarding QuickBoot and how it can improve the ease of starting up your X/Lisa, contact Dafax Processing Corp.

XLerator control panel

The XLerator control panel is for those X/Lisa computers with an XLerator installed. You do not need to keep the XLerator control panel on your System disk if you do not have the XLerator installed.

MaxiRAM and System 7 compatibility

The new version of the XLerator control panel includes some small modifications necessary for compatibility with MaxiRAM and System 7.

The XLerator mode will affect the operation of MaxiRAM. The XLerator must be placed in Fast Only or Additive mode to use MaxiRAM (until PseudoRAM is available). The XLerator mode control is duplicated in the MaxiRAM control panel for convenience; you may adjust it with either control panel. If you change the mode with the XLerator control panel, MaxiRAM will be affected accordingly.

The XLerator Disk Cache feature is not installed if MaxiRAM is on or System 7 is running. If you wish to use the slow memory for disk cache with MaxiRAM on or with System 7 running, use the appropriate control panel (General in System 6, Memory in System 7) to set the cache to the appropriate size, or use the Maxi-Cache setting (in the MaxiRAM control panel).

Query Engineering Inc.'s Software Patcher

“Query’s Software Patcher” now includes patches to facilitate using the XLerator FPU with Microsoft Excel 4.0, and to allow new “Startup Disk” control panels to function on the X/Lisa with MacWorks Plus II.

Trouble-Shooting

The various trouble-shooting suggestions below are a supplement to those in your MacWorks Plus II Installation and Usage Manual. Please continue to refer to that manual for trouble-shooting assistance.

System Error 11 or “Miscellaneous exception”

This system error is reported when MaxiRAM encounters a problem when allocating the memory above 4Mb. If your X/Lisa reports this system error, attempt to maintain more free memory above 4Mb (eg. by removing startup documents, reducing the size of the cache, switching to Additive Mode). If the error occurs at startup, turn off MaxiRAM via the space bar over-ride so that you can get to the Finder to make adjustments.

MaxiRAM shares this error code with miscellaneous unexpected 68000 exceptions (which rarely occur). If this error is reported even though MaxiRAM is off or while the X/Lisa is idle, you may have a CPU board hardware problem.

“Out of Finder Memory”

Even though there is plenty of unused memory, this message will be reported by the Finder when you try to open a desk accessory or application in the following situations:

Current System software may lose track of the unused memory above 4Mb if all of the memory below 4Mb has been used. This may lead to the “Out of Finder memory” message even though “About this Macintosh...” reports there is plenty of unused memory. You may avoid this problem by using the “Get Info...” window to adjust the “current size” of the applications you have opened. Set the size to less than the “Largest Unused Block.” For example if the “Largest Unused Block” is 3214K, set the “current size” to 3100k. You will need to quit and re-open the applications for the change to take effect.

If you are using System 6, this message will also appear if you have renamed MultiFinder and then launched it manually; return MultiFinder to its original name and restart.

“Please re-install your System software” or “The shared disk couldn’t be found on the network.”

The X/Lisa will report this message if you attempt to start file sharing or open an alias to a file/folder on a network volume with an AppleTalk version before v56. Due to increased time-critical processing demands, AppleTalk v56 and later require that an XLerator is installed and turned on (Fast Only or Additive Mode). If you do not have an XLerator installed and turned on, AppleTalk v52 is used, which allows you to print to network printers and mount AppleShare volumes via the Chooser (including those shared by System 7 Macintosh computers).

Additional icons used by MacWorks Plus II



MacWorks Plus II Installer icon



MW+II -> Floppy icon



QuickBoot icon



Query Engineering Inc. icon

New icons used by the control panels supplied with MacWorks Plus II PRO



MaxiRAM icon

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