

XLR8 MACHSpeed Control - OS X 10/24/03

For detailed instructions on the use of the *MSC-OSX* utility, please refer to the QuickStart Manual on the CD.

The *MSC-OSX* utility is designed to allow automated and manual configuration of the CPU and Cache on all G3 and G4 ZIF CPU cards within Mac OS X 10.2 (Jaguar) and 10.3 (Panther).

Serial Numbers

A serial number (including dashes) is required for this release of the MACHSpeed Control software. You will be prompted for this number when the *MSC-OSX* utility is first invoked. Until a valid serial number is provided, the caches on your machine may not be correctly enabled.

- The serial number will begin with "DSX-". Write this number down and keep it in a safe place for future reference. The number was provided with your purchase. All other customers will need to purchase a serial number from Daystar Technology (<http://daystar-store.com>) or continue to use the software that came with the upgrade.
- This serial number is provided at the time of purchase.
- Serial numbers from other versions of MACHSpeed Control will not work.

XLR8 MACH Velocity (multiprocessing) owners should not install this software.

Multiple CPU configurations are not supported in *MSC-OSX*. You should continue to use the software that came with the velocity. Due to the discontinuance of the multiprocessing program (associated with severe hard drive corruption), a multiprocessing version of *MSC-OSX* is not expected.

Features of XLR8 MACHSpeed Control - OS X

- **Automatic cache testing**, profiling and initialization at startup, insures a robust test of the system each time you begin work.
- **Advanced AltiVec processing** is provided which exclusively emulates the performance and compatibility of a native G4 system. No other software does this.
- **Semi-automatic cache and system controls** provide interactive tested safe settings and allow the user to choose from additional tested backside cache speeds (italic settings indicate failed tests) as well as cache and CPU configuration settings.
- **Automatic control recovery** will reset the settings to new safe settings should the system lock up on startup due to aggressive cache or CPU settings.
- **Includes important system tuning** that overcomes deficiencies in varied environments and improves overall stability.
- **Thermal monitoring** will alert you if potentially dangerous overheating of the CPU or CPUs occurs.
- **Provides information about the upgrade**, including its speed, CPU temperature and version, and backside cache if any. System information about the motherboard cache and motherboard memory is also provided when appropriate.
- **Interactive cache and CPU testing when the utility is open**, The graphical display provides an active test and architectural information about the system at a glance.

- **Full Compatibility in Jag, Classic and “Unsupported Systems”** is assured through an extensive history of delivering award winning upgrade solutions.

Installing XLR8 MACHSpeed Control – OS X (QuickStart)

Note: *MSC-OSX* is designed to handle all aspects of Cache and CPU control. Its semi-automatic controls can conflict with other “manual” cache enablers such as offerings from Sonnet, PowerLogix and OWC. These utilities **MUST** be removed before installation.

- **Boot into OS X (Jaguar or Panther)**, startup your system as you normally would.
- **Remove all other OS X Cache enablers** following each manufacturer’s instructions.
- **Open the *MSC-OSX* image file** by double-clicking the downloaded file
- **Review the ReadMe, FAQ and QuickStart** to understand installation and use.
- **Double-click the .pkg file** to begin the installation
- **Follow all instructions** to complete the installation
- **Restart your system** to initialize *MSC-OSX*
- **Open the *MSC-OSX* utility** in the /Applications/Utility/ folder and enter the serial number provided with your purchase.
- **Review all settings** and close the utility
- ***MSC-OSX* is now fully operational.**

Deinstalling XLR8 MACHSpeed Control

To deinstall *MSC-OSX*, log in as root, or boot from Mac OS 9 and manually remove the *MSC-OSX* components listed below and restart. *MSC-OSX* will be completely deinstalled and inactive.

- In: /System/Library/Extensions/
Remove: **XLR8MACHSpeed Kernel101.kext**
Remove: **XLR8MACHSpeed Kernel102.kext**
- In: /System/Library/StartupItems/
Remove: **XLR8MACHSpeed Startup**
- In: /Applications/Utilities/
Remove: **XLR8 MACHSpeed Control**

Troubleshooting XLR8 MACHSpeed Control (for additional troubleshooting, refer to the QuickStart guide in the image file)

Problem: Panic on boot-up or problem opening MACHSpeed Control

Solution 1: This could be a possible software conflict. Boot in Safe Mode by shutting down then pressing the shift key on boot until the “Safe Mode” progress bar is shown. If the problem persists, then try booting from the Jag CD. If the system runs well, review the System/Library/StartupItems/ folder for possible third party conflicts and remove them. Then reboot.

Solution 2: Stuffit Deluxe 8.0-8.0.1 has known issues with OS X which may be manifesting with MACHSpeed control. You need to remove StuffitAVR.kext from your System Library. Boot into OS9, navigate to the System/Library/Extensions OS X folder and move the StuffitAVR.kext folder to the trash. Reboot into OS X.

Solution 3: This could be a hardware conflict or RAM issue. Shut down. Remove all optional hardware then reboot into Safe Mode. If problem persists, remove all DIMMs except one and reboot. If problem persists, swap with another DIMM. If problem still persists, replace all RAM and change the ZIF module. If problem still persists, disconnect drives and boot

from the OS CD. If the problem still persists, it is most likely a motherboard problem.

Problem: Does not accept serial number

Solution: Ensure that all characters and dashes are being entered correctly

Problem: Works when serial number is entered, but asks for it each time and/or on every boot-up.

Solution: The original install was apparently done with Root enabled and the OS does not allow the installer to modify Root files.

1. Boot into OS9 or enable Root to deinstall /Library/Preferences/XLR8 Preferences.
2. Once removed (just open MSC and you should only have to install the serial number once).

Problem: System does not seem to run full speed.

Solution 1: Ensure that the serial number is entered and that the application is initialized by opening the MSC-OSX utility in /Applications/Utilities/. Review all CPU and System information; these are created from actual performance testing.

Solution 2: Ensure that all other third party cache enablers have been removed, specifically those produced by Sonnet, PowerLogix and OWC. Log in as root and check the /System/Library/Extensions/ and the /System/Library/StartupItems/ folders for any other third party enablers that may be conflicting with MSC-OSX.

Problem: Intermittent Crashing.

Solution 1: This could be due to a software conflict, or a ZIF card problem (cache or CPU). Disable all third party extensions by rebooting into safe mode (hold shift key on boot). If the system runs well, review the System/Library/StartupItems/ and System/Library/Extensions/ folders for possible third party conflicts and remove them. Then reboot.

Solution 2: This could be due to a hardware problem in the ZIF module or RAM.

- To verify that it is not the cache - open the MSC-OSX utility and disable the cache.
- Verify the CPU speed by double checking the settings. Over-clocking the CPU will often cause intermittent crashes.
- Test the RAM by removing a DIMM at a time.

Contacting Daystar Technology

If you have questions about your MACHSpeed upgrade card or any other XLR8 products you may contact us as follows:

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