MacTest Pro for Power Macintosh Read Me (5/96)

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TOPIC --

This article is the MacTest Pro for Power Macintosh Read Me file.

DISCUSSION --

The February 1996 Macintosh Family Diagnostics Update Mailing includes separate
CD's, diskettes, and User's Guides for MacTest™ Pro for Power Macintosh, and for
MacTest Pro for 680x0-based Macintosh computers.

The information in this READ ME file refers to MacTest Pro for Power Macintosh,
and is effective as of 02/21/96. This file contains important information about
the MacTest Pro for Power Macintosh application, its test modules, and the MTP
Emergency (PPC) application. This information supersedes some sections of the
MacTest Pro for Power Macintosh User's Guide (073-0414-A).

WHAT'S NEW

• MacTest Pro for Power Macintosh v1.0 and MTP Emergency (PPC) v1.0 are designed
to launch only on Power Macintosh computers; these applications will not launch
on 680x0-based Macintosh computers. Use the MacTest Pro v1.3 and MTP Emergency
v1.1 applications to diagnose 680x0-based Macintosh computers.

• For Macintosh Quadra and Centris computers upgraded with the Power Macintosh
Upgrade Card, and for Macintosh 630 series, LC 475, LC 575, and Quadra 605
computers upgraded with the Macintosh Processor Upgrade Card, use MacTest Pro
v1.3 (for 680x0-based machines) with the Power Macintosh Upgrade Card Tests
module, and use MTP Emergency v1.1.

• The new test modules which run only with MacTest Pro for Power Macintosh have
the suffix "(PPC)" to distiguish them from the test modules which run only on
680x0-based Macintosh computers.

• A new test module, "Serial Loopback Tests (PPC)", replaces the functionality
of the "Communication Ports Tests" in the previous version of MacTest Pro.

• The "DOS Compatible Card Tests" and the "MacTest Pro Help" modules have not
yet been converted for MacTest Pro for Power Macintosh; the CPU-specific test

modules which are 680x0-based will not be converted; there are no plans at this
time to convert "Modem Tests"; the "Machine Checker " test module is undergoing
major design changes for Power Macintosh, and is not yet available.

• The Display Service Utility v1.0 is included on the MacTest Pro for Power
Macintosh CD and on the "MacTest Pro (App+Mods2 PPC)" disk.

BOOTABLE MACTEST PRO FOR POWER MACINTOSH CD

The MacTest Pro for Power Macintosh CD v1.0 is bootable on almost all Power
Macintosh computers. Instructions for booting from the CD are included in the CD
Guide booklet. Electronic copies of current documentation and the most recent
System Software Enablers are provided on the CD.

Note that you may launch MacTest Pro for Power Macintosh, MTP Emergency (PPC),
and the printer and display utilities from the CD whether or not you to boot
from the CD. Refer to the electronic document "How to Use this CD" located on
the CD for more information.

BOOTABLE DISKS

Two of the four disks in the MacTest Pro for Power Macintosh disk set are
BOOTABLE emergency startup disks. Please review the information below and refer
to the labels on the emergency disks to determine which disk to use for the
machine you are testing. The MTP Emergency (PPC) application is the same on both
of the bootable disks. Instructions for using the MTP Emergency (PPC) disks are
included in the "Using the MTP Emergency (PPC) Disks" section of the MacTest Pro
for Power Macintosh User's Guide.

• Use the "MTP Emergency (PCI PPC)" disk with the following computers: Power
Macintosh 7200, 7500, 8500 and 9500 series, and PowerBook 5300 and 2300 series.
This disk contains the MTP Emergency application, System 7.5.2, and required
enablers.

• Use the "MTP Emergency (NuBus PPC)" disk with the following computers: Power
Macintosh 6100 series, 7100 series, 8100 series, Performa 6100 series, Apple
Workgroup Servers 6150, and 8150. This disk contains the MTP Emergency (PPC)
application, System 7.5, and required enablers.

    NOTE: The Apple Workgroup Server 9150 requires different system software
than
    what is provided on either of the MTP Emergency (PPC) disks. To create a
bootable
    emergency disk for this computer, please refer to the instructions included
in the
    electronic document "How to Make Floppy Disks", which is located in the
"Build
    Diskettes" folder on the MacTest Pro for Power Macintosh CD.

    NOTE: For the Performa 6200 and 6300 series, and for the Power Macintosh

5200 and 5300 series, you must boot from the Apple Macintosh CD which came with
     the computer. Then launch MTP Emergency (PPC) from the "MTP Emergency
     (NuBus PPC)" disk. (It is not possible to create a bootable MTP Emergency (PPC)
     disk for these computers, due to the size of system software.)

NONBOOTABLE DISKS

Two of the four disks in the new MacTest Pro for Power Macintosh disk set are
nonbootable: they do not contain System files.

• "MacTest Pro (App+Mods1 PPC)" contains the MacTest Pro for Power Macintosh
application, the commonly used CPU and peripheral test modules, Hardware Info,
Software Info, and the READ ME and VERSION INFO files.

• "MacTest Pro (App+Mods2 PPC)" contains the MacTest Pro for Power Macintosh
application, tests for serial ports and cards, as well as printer and display
utilities.

OPERATING TIPS - WORKAROUNDS - KNOWN BUGS

The "Operating Tips - Workarounds - Known Bugs" listed here are either new with
this release or represent issues that all MacTest Pro for Power Macintosh users
MUST be aware of. An electronic copy of the most recent User's Guide is
included in the "Documentation" folder on the MacTest Pro for Power Macintosh
CD.

••• Display Service Utility •••

Display Service Utility is not a test module; it is a stand-alone application
distributed with MacTest Pro for Power Macintosh as a convenience to service
technicians. Refer to the Display Service Utility's own READ ME file for more
information.

Because Display Service Utility's "settings restore" option creates a file to
temporarily store settings, it cannot be run from the CD-ROM or other locked
media. Move the Display Service Utility application to the hard drive or to an
unlocked disk before using it.

••• MacTest Pro for Power Macintosh •••

Although Power Macintosh computers with PCI expansion slots can support the
addition of NuBus cards via a third-party PCI-to-NuBus bridge product, MacTest
Pro for Power Macintosh at this time does not support any NuBus cards installed
in such a bridge. For example, the Hardware Info test module will not list these
cards in the Expansion Slot Information.

Help text cannot be printed.

Printing with QuickDraw GX is currently not supported.

Test modules that turn off AppleTalk (see User's Guide for additional information) can interrupt some network services, such as the Apple Laserwriter Bridge. This results in an alert to the user, which must be dismissed by the user before testing will continue. This interruption can impact the looping of tests. Do not leave the machine unattended until at least one loop of testing has been completed.

••• MTP Emergency (PPC) •••

Always connect SCSI hard drives to the standard SCSI connections provided by the Power Macintosh hardware before running diagnostic tests. If you run hard drive tests on drives connected to a 3rd party SCSI bus (i.e. expansion slot card), then MacTest Pro for Power Macintosh may hang, or may incorrectly report a hard drive failure. If you subsequently run a logic board test, it may incorrectly report a logic board failure. Do not reject a hard drive or logic board based on these false reports. Turn off the Power Macintosh, reconnect the SCSI hard drive to a standard SCSI connection and restart. Then launch MacTest Pro for Power Macintosh and start the tests again.

The CPU clock speed that is displayed in the Hardware Info Log and by MTP Emergency is an approximation based on information gathered from the system; the presence of accelerator cards may affect the accuracy of this information.

On some Workgroup Servers, the machine name may be reported as the Power Macintosh on which the Workgroup Server is based (or vice-versa) depending on the version of System software which is running. For example, a Workgroup Server 6150 may be incorrectly identified as a Power Macintosh 6100.

••• Ethernet Card Tests (PPC) •••

The "Test Info" and the "Operation Info" in the MacTest Pro for Power Macintosh application state that you may run the Ethernet Card Tests (PPC) while the card is connected to a network. This is INCORRECT. Running the test while connected to a network may result in a crash or false failure of the test. To run the test correctly, disconnect the card from the network, and restart the Macintosh before launching MacTest Pro for Power Macintosh.

••• Expansion Card Tests (PPC) •••

This first release of Expansion Card Tests (PPC) covers only NuBus cards; it does not yet cover the HPV video card in the PDS slot, nor does it cover any cards in PCI slots.

••• Mass Storage Device Tests (PPC) •••

The Mass Storage Device Tests (PPC) module is designed to test all CD-ROM drives, hard drives and tape drives released by Apple, when installed with driver software by Apple. The test module will load and attempt to run on non-Apple devices (see below) and/or with non-Apple drivers (such as FWB CD-ROM Toolkit), however the Mass Storage Device Tests (PPC) module has not been

tested with third-party CD-ROMs and drivers. Any results which may be obtained will not be reliable.

Mass Storage Device Tests (PPC) does not currently support CD-ROMs with blocksizes other than 2048 bytes, or hard drives with blocksizes other than 512 bytes (such as 4Gb drives which may have blocksizes larger than 512 bytes). Any results which may be obtained will not be reliable.

Mass Storage Device Tests (PPC) can test a PCMCIA card which is an IDE hard drive (except on PowerBook 500 series computers). The test module may load and attempt to test other PCMCIA devices (such as flash cards), however any test results which may be obtained will not be reliable.

When you are testing a DDS-DC tape drive, be sure to use a properly formatted known-good tape (for example, if you insert a 'Helical Scan' tape, the test will fail). Also, if the write protect switch on the tape is enabled, the test will fail.

Mass Storage Device Tests (PPC) can only test devices on the primary SCSI bus. To test devices which are connected to a secondary or tertiary SCSI bus, you must first disconnect the device, and reconnect it to the primary SCSI bus.

Before running the Hard Drive Seek Test option of the Mass Storage Device Tests (PPC) module on a Power Macintosh 7200, 7500, or 8500 series computer, you must set the Control Panel Energy Saver Sleep Setup settings to "Never". Otherwise, the test may hang or fail when the hard drive goes to sleep (spins down).

When running Mass Storage Device Tests (PPC), if the CD-ROM test disc was already inserted in the CD-ROM drive when a test failure is detected, the CD-ROM test disc may not eject from the CD-ROM drive. To eject the CD-ROM test disc, run the CD-ROM portion of the Mass Storage Device Tests (PPC) again, and then cancel the test after the CD-ROM test disc is ejected. Or, reboot the computer, and the CD-ROM test disc will be ejected automatically.

VERSION INFO

Information about the current versions of System Enablers, and MacTest Pro for Power Macintosh test modules can be found in the accompanying VERSION INFO file.
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