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System Enablers: Current Versions & Change History (2/97)

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TOPIC -------------------------------------------------------------


This article lists the current versions of the Macintosh System Enablers, and
change history information.


DISCUSSION --------------------------------------------------------


In the past, when Apple has come out with new computers, Apple has also revised
the system software so it knows how to start up these new computers. Revising
the whole system software, however, is a very time-consuming process, and Apple
has been releasing new computers much more rapidly than it did in the past.

The solution to this dilemma is the System Enabler file. A System Enabler
contains everything that is needed to boot (start up) a new computer (or
computers). All of the computers that have come out since system software 7.1
(September 1992) require a System Enabler to start up.

With System 7.5, a universal enabler which supports all computers introduced up
to the introduction of System 7.5, has been developed. Future computers will
have an enhanced enabler shipped with them.

With the release of system 7.5.3 or later, the listed computers in this article
do not require a System Enabler.


Current Macintosh System Enablers
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NOTE: The Plus, SE, SE/30, Classic, Classic II, LC, LC II, LC 580, Mac II, IIx,
IIcx, IIsi, IIci, IIfx, PB 100/140/145/170, Quadra 700, 900, and 950 do NOT need
a System Enabler. Also, the Performa 200, 400, 405, 430, and 410 do NOT require
a System Enabler.
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Begin_Table

Macintosh	System Enabler Used	Current Version	Note
Macintosh Centris 610	System Enabler 040	1.1	D
Macintosh Centris 650	System Enabler 040	1.1	D
Macintosh Centris 660AV	System Enabler 088	1.2	D
Macintosh Color Classic	System Enabler 401	1.0.5	D
Macintosh IIvi	System Enabler 001	1.0.1	D
Macintosh IIvx	System Enabler 001	1.0.1	D
Macintosh LC III	System Enabler 003	1.1	D
Macintosh LC 475	System Enabler 065	1.2	D
Macintosh LC 520	System Enabler 403	1.0.2	D
Macintosh LC 550	System Enabler 403	1.0.2	D
Macintosh LC 575	System Enabler 065	1.2	D
Macintosh LC 630	System Enabler 405	1.0	D
Macintosh PowerBook 150	PowerBook 150 Enabler	1.1	D
Macintosh PowerBook 160	System Enabler 131	1.0.3	A
Macintosh PowerBook 165	System Enabler 131	1.0.3	A
Macintosh PowerBook 165c	System Enabler 131	1.0.3	A
Macintosh PowerBook 180	System Enabler 131	1.0.3	A
Macintosh PowerBook 180c	System Enabler 131	1.0.3	A
Macintosh PowerBook 190	PowerBook 5300/2300/190 Enabler	1.2.4	F
Macintosh PowerBook 520	PBook 500 Series Enabler	1.0.2	D
Macintosh PowerBook 520c	PBook 500 Series Enabler	1.0.2	D
Macintosh PowerBook 540	PBook 500 Series Enabler	1.0.2	D
Macintosh PowerBook 540c	PBook 500 Series Enabler	1.0.2	D
Macintosh PowerBook 5300	PowerBook 5300/2300/190 Enabler	1.2.4	F
Macintosh PowerBook Duo 210	PowerBook Duo Enabler	1.0	B
Macintosh PowerBook Duo 230	PowerBook Duo Enabler	1.0	B
Macintosh PowerBook Duo 250	PowerBook Duo Enabler	1.0	B
Macintosh PowerBook Duo 270c	PowerBook Duo Enabler	1.0	D
Macintosh PowerBook Duo 280	PowerBook Duo Enabler	2.0	C
Macintosh PowerBook Duo 280c	PowerBook Duo Enabler	2.0	C
Macintosh PowerBook Duo 2300	PowerBook 5300/2300/190 Enabler	1.2.4	F
Macintosh Quadra 605	System Enabler 065	1.2	D
Macintosh Quadra 610	System Enabler 040	1.1	D
Macintosh Quadra 630	System Enabler 405	1.0	D
Macintosh Quadra 650	System Enabler 040	1.1	D
Macintosh Quadra 660AV	System Enabler 088	1.2	D
Macintosh Quadra 800	System Enabler 040	1.1	D
Macintosh Quadra 840AV	System Enabler 088	1.2	D
Macintosh TV	System Enabler 404	1.0	D
Performa 600	System Enabler 304	1.0.1	D
Performa 450,460,466/7	System Enabler 308	1.0	D
Performa 475,476,575,577/8	System Enabler 364	1.1	D
Performa 550, 560	System Enabler 332	1.1	D
Performa 630, 635CD	System Enabler 405	1.0	D
Performa 611x	Requires System 7.5		D
Performa 5200 series	System Enabler 406	1.0	G

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Performa 5300 series        System Enabler 406         1.0          G
Performa 6200 series        System Enabler 406         1.0          G
Performa 6300 series        System Enabler 406         1.0          G
Performa 6400               System Enabler 410         1.1          H
Power Macintosh 4400/200    System Enabler 827                      J
Power Macintosh 5200/75 LC  System Enabler 406         1.0          G
Power Macintosh 5300/100 LC System Enabler 406         1.0          G
Power Macintosh 5400 Series System Enabler 410         1.1          H
Power Macintosh 5500/225    System Enabler 411                      I
Power Macintosh 6500/225    System Enabler 411                      I
Power Macintosh 6500/250    System Enabler 411                      I
Power Macintosh 6100/60     PowerPC Enabler            1.0.2        D
Power Macintosh 7100/66     PowerPC Enabler            1.0.2        D
Power Macintosh 8100/80     PowerPC Enabler            1.0.2        D
Power Macintosh 8100/110    PowerPC Enabler            1.1.1        E,G
Power Macintosh 6100/66     PowerPC Enabler            1.1.1        E,G
Power Macintosh 7100/80     PowerPC Enabler            1.1.1        E,G
Power Macintosh 8100/100    PowerPC Enabler            1.1.1        E,G
Power Macintosh Upgrade     PowerPC Upgrade Cd Enabler 1.0.1        D
Power Macintosh 9500/120    System Enabler 701         1.1          F,G
Power Macintosh 9500/132    System Enabler 701         1.1          F,G
Power Macintosh 7200/75     System Enabler 701         1.1          F,G
Power Macintosh 7200/90     System Enabler 701         1.1          F,G
Power Macintosh 7500/100    System Enabler 701         1.2          F,G
Power Macintosh 8500/120    System Enabler 701         1.2          F,G
Power Macintosh 7300/180    System Enabler 702                      I
Power Macintosh 7300/200    System Enabler 702                      I
Power Macintosh 8600/200    System Enabler 702                      I
Power Macintosh 9600/200    System Enabler 702                      I
Power Macintosh 9600/200MP  System Enabler 702                      I
Power Macintosh 9600/233    System Enabler 702                      I
End_Table
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NOTES:

A - System Enabler 131 replaces System Enabler 111 and System Enabler
    121.
B - Express Modem users should also install the Duo Battery Patch
    (Extension).
C - Requires System Software version 7.1.1 or later. System Software
    7.1.1 and PowerBook Duo Enabler 2.0 ship with the PowerBook Duo 280
    and 280c.
D - No System Enabler is required for this Macintosh under System 7.5 or later.
E - Power Macintosh 6100/66, 7100/80, 8100/100, and 8100/110 require
    System 7.5 and Finder 7.5.1 or later.
F - Requires System Software version 7.5.2 or later.
G - No System Enabler is required for this Macintosh under System 7.5.3 or
    later.
H - No System Enabler is required for this Macintosh under System 7.5.5 or
    later.
I - These computers shipped with 7.5.5 and require the enabler with it. These
    do not support Mac OS 7.6. Will suppor Mac OS 7.6.1 when it ships.
J - The Power Macintosh 4400/200 shipped with 7.5.3 and requires the enabler

with it. It does not support Mac OS 7.6. Will support Mac OS 7.6.1 when it
ships.

Enabler Change History
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PowerBook 150 Enabler

1.1   First release.

PowerBook 500 Series Enabler

1.0.2   First release.

PowerBook 5300/2300/190 Enabler

1.0.2   First release.
1.0.8   Added support for NiMH batteries.
1.1   Reference release for 5300 and 190 builds.
1.2   Reference release for 2300 builds.
1.2.1   Fixed several issues on PowerBook 5300/2300/190 computers.
1.2.4   System software enhancements improving reliability and performance

PowerBook Duo Enabler

1.0   First release. Replaced System Enabler 201.
2.0   Includes support for type III batteries, better support for dual
monitors, and multiple resolution support for color displays. Added support for
PowerBook Duo 280 and 280c.

PowerPC Enabler

1.0   First release.
1.0.1   Fixes some video and serial communications problems.
1.0.2   Improved Energy Star compatibility for certain monitors connected to the
built-in video port.
1.1   Manufacturing release only.
1.1.1   Added support for speed bumped Power Macintosh. Requires Finder 7.1.5.

PowerPC Upgrade Card Enabler

1.0   First release.
1.0.1   Includes Communications Toolbox 1.1

System Enabler 001

1.0   First release.
1.0.1   Improved support for high speed serial communications and improved
accuracy of the system clock. Also addressed a rare problem where floppies may
not be ejected properly at shutdown.

System Enabler 003

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1.0      First release.
1.1      Updated in System Update 3.0. Minor bug fix for compatibility.


System Enabler 040
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1.0      First release.
1.1      Added support for Quadra 610 and Quadra 650.


System Enabler 065
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1.0      First release for Macintosh LC 475 and Macintosh Quadra 605.
1.1      Added support for Macintosh LC 575.
1.2      Minor bug fix for compatibility.


System Enabler 088
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1.0      First release.
1.0.1    Required for System 7 Pro 7.1.1 support.
1.1      Added support for Quadra 660AV.
1.2      Corrects problems with serial port, involving printing to LaserWriter
310 Select and crashing in certain instances when receiving a fax and network
traffic is high.


System Enabler 131
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1.0      First release to support the PowerBook 180c. Replaced System Enabler 121
(supporting 165c) as well as System Enabler 111 (supporting 160 & 180).
1.0.2    Corrected a problem involving the serial driver. If a user has the
serial driver open, but is not transmitting, and then puts the PowerBook to
sleep, any attempt to transmit on waking, would cause the system to hang.
1.0.3    Added support for the PowerBook 165.


System Enabler 401
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1.0.4    First release.
1.0.5    Fixed a problem involving erratic mouse movement with Apple II
mouse-based applications running on the Apple IIe card installed in the PDS.


System Enabler 403
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1.0      First release for Macintosh LC 520.
1.0.1    Manufacturing release only.
1.0.2    Added support for Macintosh LC 550.


System Enabler 404
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1.0      First release.


System Enabler 405
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1.0      First release.


System Enabler 406
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1.0      First Release.
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System Enabler 701

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1.0      First release for Power Macintosh 9500, requires System software 7.5.2.
1.1      New enabler for Power Macintosh 9500 and Power Macintosh 7200 only,
requires System software 7.5.2.
1.2      New enabler for Power Macintosh 7500 and Power Macintosh 8500 only,
requires System software 7.5.2.
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Where to Find System Enablers
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These articles can help you locate software updates mentioned here:

• Where To Find Apple Software Updates
  Lists online services for "free" Apple software updates

• Obtaining Apple Product Support in the USA
  Lists 800 numbers and online services for software updates, Apple
  support information, and a subset of the Apple Tech. Info. Library

This article is one of many available through the Apple Fax center. For a
complete list of available Fax documents, search the Tech Info Library for Apple
Fax Document Index or call the Apple Fax line at 1-800-505-0171 and select
document number 20000 (Apple Fax - Document Index - Product Support Literature).
The Apple Fax center is available free of charge 24 hours a day, 7 days a week.

Article Change History:
24 Feb 1997 - Added latest computers.
07 Nov 1996 - Added G,H notes and info for 6200, 6300, and 5400
18 Oct 1996 - Added System 7.5.3 and later information.

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