

PC - WorldScript)

The following items are listed in groups because they are only used together. Chances are that if you aren't using one, you aren't using any, so you can disable them all. However, make sure you read the description of each item carefully, because some items are installed by, and may be needed by, more than just the group under which they are listed. I have tried to note whether each item is an extension, control panel, shared library, etc. by noting the type after the item's name. For more detail on what shared libraries, documents, etc. are, see the "Non-RAM" chapter.

The following "Groups" are summarized in this chapter:

PC Compatibility
PowerTalk
QuickDraw 3D
QuickTake
QuickTime
QuickTime Conferencing
Speech/PlainTalk
WorldScript

PC COMPATIBILITY

The PC Compatibility software is intended for Macintosh computers which have a PC Compatibility card installed. NOTE: The PC Compatibility installer also installs the "Ethernet (Built-In)" extension, and may install it over the version already on your computer, so you should check to make sure that it did not replace a newer version.

- PC Clipboard (extension): provides for a cross-platform clipboard, so that you can cut-and-paste between the PC and Mac environments.
- PC Network Extension: allows the PC side of your PC-compatible Mac to use your Mac's built-in networking capability.
- PC Print Spooler (extension): allows you to print from the PC environment to your Mac's printer.
- PC Setup (control panel) (v1.0.7/v1.8.4): provides options for PC compatibility. Version 1.0.x is used

by Macs with the 610 PC and DOS Compatibility Cards and is replaced by the DOS Compatibility Software Update 1.5 (not necessary for PCI Macs with a DOS Compatibility Card). NOTE: after installing System 7.6 and OT/PPP 1.0, there is a chance your PC Setup Preferences file may become corrupt, causing a message which reads "Sorry, a System Error Occurred. PC Setup, Unimplemented Trap." The solution is to startup with all extensions off, throw away the "PC Setup Preferences" file, and restart.

- PC Setup Switch: ?

POWERTALK

NOTE: PowerTalk is incompatible with Mac OS 8 and later. When you install OS 8, the entire PowerTalk system (including extensions) will be either deleted or "disabled" by the installer.

- Apple Fax Gateway (extension) (v3.x) [NA]: not installed by PowerTalk, but by the Apple Telecom Software. Allows you to send faxes over PowerTalk.
- AppleTalk Service (extension): allows PowerTalk to maintain catalogs of users & groups over a network. Provides access to an AppleTalk network using PowerTalk catalogs.
- DigiSign (extension): enables the "digital signature" features of PowerTalk.
- Mail Folders Extension
- Mailbox Extension: provides "Mailbox" support and enables the Mailbox icon to appear on your desktop.
- Catalogs Extension (v1.1.1): provides the desktop catalog, as well as enabling the "Catalogs" menu.
- PowerTalk Extension: provides support for PowerTalk services. Also contains information used by the PowerTalk "keychain."
- PowerTalk Manager (extension): provides management support of the AOCE Mailbox and services.
- PowerTalk Guide (extension) (see above)
- PowerTalk Setup (extension): allows you to enable/disable mail collaboration services.

QUICKDRAW 3D (v1.5.3)

The QuickDraw 3D system provides support for three-dimensional graphics and movie rendering, via both software and hardware. It also provides a common file format (3DMF) for exchanging 3D documents. Although the software contains 68k code, it is really intended for PowerPC machines, as 3D rendering takes significant processing ability. Version 1.5.3 is downloadable from Apple and included with the retail version of OS 8.1. Version 1.5.4 of many files is included with the QuickTime 3.0 package.

- Apple QD3D Driver: an older version of the QD3D driver which was only used by Apple-brand QuickDraw 3D Accelerator Cards. It was not compatible with all 3D applications. Not needed with any recent version (1.5 or later) of the QD3D software.
- QD3DCustomElements (v1.5.4) and QTML Custom Elements (v1.5.4): these files provide the ability for QuickDraw 3D applications to add information such as WWW URLs or text to 3D objects and shapes.
- QuickDraw 3D (extension) (v1.5.4): basic QuickDraw 3D extension which allows the system and applications to take advantage of the QuickDraw 3D system by supporting reading and rendering of 3D models, as well as by supporting cutting and pasting them between documents. It is useful if you want to browse VRML web sites, and is used and installed by certain 3D graphics packages (such as Strata Studio Blitz 1.75) and 3D games because it makes them run faster by working directly with the system. Contains both PPC and 680x0 code.
- QuickDraw 3D Accelerator (document) (v.1.0.3): contains PowerPC-native patches to the basic extension. NOTE: this file is supposedly only installed on systems where the installer detects a hardware accelerator card, but some people have reported seeing it without having a card installed.

NOTE: under QuickDraw 3D 1.5.3 and later, this file does not seem to be necessary.

- QuickDraw 3D IR (library) (v1.5.4): provides support for the QuickDraw 3D Interactive Renderer. The interactive renderer is the component of QD3D that does the real-time rendering that is one of its key benefits. Starting with QD 3D 1.5, there are also third-party renderers which work in conjunction with QD3D.
- QuickDraw 3D RAVE (extension) (v1.5.4): stands for "Rendering Acceleration Virtual Engine." Allows applications to use QD3D hardware accelerators (PCI/Nubus cards) with their existing 3D rendering engines.
- QuickDraw 3D Viewer (document) (v1.5.4): provides viewing support for QD3D applications. This includes the standard icons for switching between rotation, translation, etc. Also contains the code for the graphics interface which permits viewing 3DMF objects. For example, SimpleText uses this interface when loading a 3DMF object.

Also, if you have an Apple QuickDraw 3D Accelerator Card installed in your Mac when you install the QD3D software, the following files will be installed to provide QD3D support for the card:

- Apple QD3D HW Driver (v1.5.4)
- Apple QD3D HW Plug-In (v1.5.4)

QUICKTAKE

NOTE: the QuickTake system also requires the following files: Foreign File Access, GeoPort™ Serial Driver, Serial Extension, and the appropriate Shared Library Manager extensions. For more information on these files, see their respective entries.

- Apple QuickTake 150 and Apple QuickTake 200 (extensions) (v1.0 and 1.0.2, respectively): components of the QuickTime IC system (see "QuickTime™ IC" below) that allow QuickTime IC-aware applications to interact directly with the QuickTake cameras. Only installed by the QuickTime IC installer.
- QuickTake™ Access (component) (v2.0.1): allows you to access the QuickTake camera from the Mac desktop. Requires Foreign File Access.
- QuickTake™ Camera (extension) (v2.0): allows you to connect the QuickTake camera to your Mac.
- QuickTake™ Image (component) (v2.0.1): allows your Mac to display QuickTake compressed images. The PICT images produced by the QuickTake camera are compressed in a proprietary format; in order to view them, you need this extension or you need to manually save the images as normal PICT files.
- QuickTake™ Image Access (control panel) (v2.0.1)
- Serial Extension (v2.2): enables the serial port to be used by the QuickTake camera.
- QuickTime™ IC (v1.0.2): provides support for applications to communicate, view, and manipulate images from image capture devices, such as the QuickTake camera. Installed by the QuickTake 200 software.

QUICKTIME

NOTE: if you have the SAS statistical package installed, you must either have both QuickTime™ and QuickTime™ PowerPlug installed, or neither of them. If you only have the QuickTime™ extension installed, you will get either a memory or illegal instruction error message when you try to launch SAS. NOTE: while QuickTime is neat enough on its own, it turns out installing it can actually fix problems! When using versions of the System software from 7.5.2 to 8.1 on any PowerPC Mac or PowerBook, as well as on the Quadra AV models, users can experience a bug which, in technical terms, affects the CopyDeepMask API call. In user language, the bug can cause a freeze/crash when using an application or utility which alters the appearance of certain windows. It turns out that while Apple plans to fix the bug in a future version of the OS, QuickTime 2.5 and 3.0 both fix the problem when installed.

- QuickTime™ (v3.0) [48/384]: Provides built-in multimedia support for your Macintosh. Provides CD quality MIDI sound support. Provides support for importation of various graphics formats. Provides support for AutoPlay of appropriately formatted CDs. NOTE: certain CD-ROM and multimedia applications will attempt to install an older version of QuickTime, or will even attempt to install the older version along with the newer one already present. Make sure that you have not replaced a newer version with an older version. NOTE: under System 7.6 only, there is a bug where the computer may crash when using high-end video editing programs and large QuickTime files. The solution is to increase the memory allocation for the editing application. This bug was fixed in System 7.6.1.
- QuickTime 2.0 AMMS Update: part of the Apple MPEG Media System. Provides MPEG support within QuickTime 2.0. NOTE: under QuickTime 2.1 and 2.5, this functionality is provided by the QuickTime MPEG Extension.
- QuickTime™ MPEG Extension (v1.1) [.5/0]: works directly with QuickTime to enable playback and control of MPEG movies by allowing MPEG-based multimedia files to be viewed from within QuickTime-compatible applications. When installed, opening an MPEG movie will automatically import it into a QuickTime movie as a single MPEG track which contains the audio and video streams of the original MPEG file. However, this extension does not contain an MPEG compressor, meaning you cannot use a QuickTime-based application to compress a QuickTime file using MPEG compression. Requires that the QuickTime v2.5 extension be installed. Also requires the new version (2.1.5) of Thread Manager (see the Thread Manager entry). NOTE: you must use the Movie Player application to view MPEG files, as the Apple Video Player application does not support MPEG sound. NOTE: Performa 6205CD computers will freeze when playing long MPEG movies. NOTE: if you have an Apple or third-party MPEG video card installed, you should remove the QuickTime MPEG extension. NOTE: the "Audio CD Access" extension can prevent you from viewing the video portion of MPEG movies which are stored in the Video CD format. If you are having trouble with MPEG video on these discs, remove the Audio CD Access extension and restart. NOTE: there is a bug with some CDi and Video CDs which have dual audio tracks where a separate track is played in each speaker. To work around this problem, you should use the MoviePlayer "Get Info" command on the file, choose the "Volume" option, then pan the volume control all the way to the left or right channel to eliminate the unwanted audio track. NOTE: the "Text Preview" extension conflicts with the "file preview" feature when selecting MPEG files. While this does not affect the ability to view MPEG files, you will not be able to preview them in Open/Save dialogs.
- QuickTime Music (control panel): not widely available. When used with QuickTime 2.5, allows you to choose between the built-in MIDI synthesizer, MIDI input from the modem or printer port, and a plug-in synthesizer.
- QuickTime™ Musical Instruments (v3.0) [<.5/0]: provides support for MIDI sound files under QuickTime 2.5. Versions prior to 2.5 were actually "components." However, with the release of QuickTime 2.5, this file was, for whatever reason, "changed" to a standard extension.
- QuickTime™ PowerPlug (v3.0) [0/384-uses the memory allocated to QuickTime] PM: provides native code support for QuickTime when used in combination with QuickTime 2.0 or later. Dramatically improves compression performance on PowerMacs. The shared library QuickTimeLib is a part of this extension. On a PowerMac, some applications, such as Graphic Converter, will display an error such as "Can't find QuickTimeLib" if QuickTime PowerPlug is not installed.
- QuickTime™ PowerPC: apparently the precursor to QuickTime PowerPlug, provides PPC-native support for QuickTime. Will not work with QT PowerPlug; in fact, it will prevent QT PowerPlug from being loaded at startup.
- QuickTime™ Settings (v3.0): actually just an application which changes the preferences for QuickTime. Allows you to select music/MIDI settings and Audio CD/CD-ROM "AutoPlay" options (see the "QuickTime" extension entry). NOTE: for the "CD-ROM AutoPlay" feature to work, the CD-ROM must be coded to allow auto-play. At this point in time, very few CDs are encoded this way.
- QuickTime™ VR (v2.1): used with QuickTime to provide support for QuickTime VR (virtual reality) files from within most QuickTime-compatible applications. Requires QuickTime and QuickTimeVRLib.
- QuickTimeVRLib: shared library which provides support for QuickTime Virtual Reality.

QUICKTIME CONFERENCING

QuickTime Conferencing allows users with a video camera and TCP/IP connection to communicate with

others using "live" video and audio. The most recent version of QTC is 1.0.3. The QuickTime conferencing system only works on Quadra AV, PowerMac AV, or PowerMac AV-upgraded systems.

- QT Conferencing Template (v1.0.2) (document)
- QuickTime Conferencing (v1.0.3) (document): when used with the Apple Media Conference application, allows you to set up video conferences, send and receive live audio and video, and use a local or TCP/IP network to interactively collaborate on a project and/or share information.
- SNMP AppleTalk Transport (v1.1) (shared library)
- SNMP Manager (v1.1) (shared library)
- SNMP TCP/IP Transport (v2.0.4) (shared library)
- SNMP QTC Agent (v1.0.2) (shared library)
- Whiteboard: supposedly provides support for a joint "whiteboard" which both members of the video conference can alter and share.

There are several "industry-standard" compression formats for video conferencing. The following three files, called "codecs" because they provide compression/decompression support, enable QuickTime to use each protocol for QuickTime video conferencing. They are all "documents" which are only loaded when needed. They are also PowerPC-only because of the processing power required. Supposedly, for each one that is loaded, you need 1MB of free RAM.

- o H.261 (v1.0.2): note that version 1.0.4 is installed by CoolTalk.
- o H.263 (v1.0)
- o G.728 (v1.0)

SPEECH/PLAIN TALK

There are two parts to the Speech/PlainTalk system, English (or Spanish) Text-to-Speech, and Speech Recognition. I have included both parts in the summary below. I have not included information on Spanish Text-to-Speech as I have been told that the INITs which are installed are the same.

NOTE: The Speech software can cause a Mac Plus (which does not support speech) to hang during startup. To avoid this problem, restart with extensions off, remove the Speech software, and restart.

NOTE: on PowerMac/Performa 5200/5300/6200/6300 computers with an internal modem, Speech Recognition/Speakable Items and a modem TCP/IP (Internet) connection cannot be used at the same time. This is because the sound chip and I/O (in/out) circuitry used by the computer for speech is the same as that used by the computer for modem sound processing. If you attempt to use Speech Recognition and/or Speakable Items and TCP/IP over a modem at the same time, the speech functions will take precedence, and you will lose your TCP/IP connection and get a "No DNS Entry" error. NOTE: the preceding problem (with internal modems) has also been reported with external modems. I do not know if this is accurate, but include it here for your information. NOTE: there is a conflict between the PlainTalk package and the GeoPort modem. If you attempt to use the GeoPort modem while PlainTalk is installed, it may cause a crash. NOTE: Speech Recognition is not "officially" supported on PowerMac G3 systems. On these computers, the following problems have been found: The non-Pro voices (those other than the "high-quality" Victoria, Bruce or Agnes) "break up" when Virtual Memory is on. In addition, if you have external speakers which are located too close to the PlainTalk microphone, you may get feedback. Finally, if your PowerMac G3 has an audio card option, you may get an error that the microphone is disconnected when you attempt to turn on Speakable Items. The solution is to use the Monitors & Sound control panel to select a source other than the microphone, then turn Speakable Items on, then select the microphone as a source again.

- MacinTalk 2 / MacinTalk 3 / MacinTalk Pro (extension) (v1.4): a "document" which actually provides the voice synthesizers to allow the computer to read text in human voices. MacinTalk Pro is for PowerMacs and 68040 Macs (both running System 7.0 or later); MacinTalk 3 is for PowerMacs, 68040 Macs, and 33MHz or faster 68030 Macs (all running System 7.0 or later); MacinTalk 2 is for 32 MHz or slower 68030 Macs, 68020 Macs, and Macs running pre-System 7 system software. The quality of speech improves in each successive version. MacinTalk 2 requires the Speech Manager extension,

Speech control panel, and the "Voices" folder in the System Folder with voice files installed. MacinTalk 3 and Pro require the Speech Manager extension, the Speech control panel, and the "Voices" folder in the Extensions folder with voice files installed.

- MacinTalk Español Mexicano (control panel) (v1.4): when using the Mexican Spanish Text-to-Speech package, this files takes the place of the "MacinTalk" files (above).
- My Speech Macros: supports the Speech Macro Editor to allow you to create your own speech items.
- Speakable Items (v1.5) [NA]: when used along with the other software here, allows your Mac to recognize spoken commands.
- Speech (control panel) (v1.5) [0/0]: allows you to change between installed voices in applications which allow "speaking" (i.e. the "speak selection" option in SimpleText); also used to set options for giving your computer spoken commands.
- Speech Manager (extension) (v1.4) [7/320]: when used along with the other software here, allows your Mac to speak written text.
- Speech Recognition (extension) (v1.5.1) [45/52]: enables speech recognition. Version 1.5 fixes bugs with PowerPC PowerBooks using the built-in microphone, fixes a bug with PowerPC Performa models where sound output would be muted, and includes other minor fixes. It is available for download from the following URL as part of a special "full" install:

[<http://speech.apple.com/ptk/ESR.hqx>](http://speech.apple.com/ptk/ESR.hqx)

r you can visit the PlainTalk home page:

[<http://speech.apple.com/speech/ptk/ptk.html>](http://speech.apple.com/speech/ptk/ptk.html)

- SR Monitor (extension): used to monitor and interpret speech.
- System Speech Rules (extension): supports voices and speech dialects.
- InLine Filter (extension): Helps AppleScript and PlainTalk Speech Recognition work together (also installed by other applications, such as KanjiTalk--see "extensions" section).
- Voices folder (found in the "Extensions" folder): contains voices for use by Speech/ PlainTalk/ Text-to-Speech. NOTE: Apple has made available three "high-quality" versions of the Agnes, Bruce and Victoria voice files. These voices are supposedly more lifelike and more easily understandable. However, they only function with MacinTalk Pro. If you are not running the MacinTalk Pro extension, you cannot use the high quality voices.

WORLDSCRIPT

InputBackSupport, World Script II, & Power Adapter, and the Japanese Language Kit extension are all a part of the Japanese Language Kit and the WorldScript Updater, and (except for the JLK extension) presumably other language kits as well. If you are using the standard English system, and not using anything like one of the language kits, you can trash these.

Note: when attempting to install the Chinese Language Kit v1.0, some users experience an error message that the installer "cannot install onto this version of Performa software" despite the fact that they don't even have a Performa (Performa owners also get this message, so it's not always wrong!). The solution in either case is that to install the Kit under System 7.5.x, you must first remove the Launcher from the Control Panels folder. Note that you will also need to install the Chinese Language Kit Update 1.1.1 to be compatible with System 7.5.x.

- Font Extension 3 (vj-1.0.4): prevents one cause of a system hang on systems running Japanese Language Kit 1.2. Included with the Japanese Language Kit as well as with KanjiTalk.
- InLine Filter (extension): provides support for "inline" input of characters, as opposed to manual entry into the input bar.
- Inline Support (extension): provides support for "inline" input of characters, rather than typing it into a floating window which would then send it to the proper place.
- InputBackSupport (extension) (v7.5.3): provides support for two-byte fonts. Allows complex character entry, including text pre-processing to allow multiple keystrokes to be used to generate a single character. Also supports Japanese fonts already in use that aren't TrueType fonts. Provides backwards

compatibility with Japanese 6.x input methods.

- Language Kit Extension 7.5.5 (extension): for one, allows a non-Japanese system to recognize double-byte fonts as eligible system fonts.
- WorldScript I (extension) (v7.5.3): used for complex one-byte processing of languages such as Arabic and Hebrew. Allows the display of complex 1-byte script systems, including those which read right-to-left and top-to-bottom.
- WorldScript II (extension) (v7.5.1): used for two-byte processing of languages such as Chinese, Japanese, and Korean. Allows the display of 2-byte script systems, again including non-Roman display parameters.
- WorldScript Power Adapter (extension) (v7.5.3): Contains routines common to 1- and 2-byte script support. Also, contains PowerPC code for general script utilities; on PowerPC Macs, this file speeds up operations when working with text. If you've deleted this file, you can "custom install" the latest version from System 7.5 Update 2.0. Unfortunately, it cannot be custom installed from the System 7.5.3 installer, and if you've already installed 7.5.5, Update 2.0 won't work. If you've already installed System 7.5.5 Update, see the "7.5.5 Info" chapter on how to use the Update 2.0 installer under 7.5.5. That said, there may be a problem with the WorldScript Power Adapter which causes "Type 11" errors. While this "bug" is not confirmed, a number of people have said that removing this file eliminated many of these errors. NOTE: Under OS 8, this file is incorporated into the System file and is no longer necessary. Even if you have it present, installing the OS 8 Language Kit Updater will remove it.