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    The Ultimate DOOM / Macintosh
      Version 1.0.2 Read Me

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This file contains "late-breaking" information about The Ultimate DOOM for the Macintosh.

1)   For those owners of Power Macintosh computers that were supplied with Open Transport (such as the 9500, 7200, 7500 and 8500 series), please note that Open Transport and MacIPX do not currently operate together. Therefore, it will be impossible to play a network game between your Macintosh and PCs over an IPX network. Until Novell releases a version of MacIPX that is compatible with Open Transport (the networking software built into certain system software versions), there is no method of connection between the machines.

2)   Ultimate DOOM Version 1.0.2 for the Macintosh is compatible for modem and network play with Version 1.9 of the PC version. Enclosed on the CD/ROM version are updates for versions 1.1, 1.2, 1.6 and 1.8 of the DOS version. These "patches" are included so that you may play against friends who have the PC version. Simply modem them the patches, have them upgrade to version 1.9, and you're ready to play!

3)   Third-party ("homebrew") WAD file support is built into Ultimate DOOM for the Macintosh, including support for many (but not all) of the WAD files available for DOOM I on the PC. WAD files are available on many on-line services, the Internet, and available as CD/ROM collections in retail and mail-order channels. Simply drag the WAD file's icon on top of the Ultimate DOOM icon (no need to change creator/file types), and start your game. WAD files are usually accompanied by documentation that explain whether or not multiplayer is supported, which levels they "patch", and whether or not they "patch" the DOOM application itself. Those that do try to patch the DOOM application will not work on the Macintosh version (at least, not as intended). You may also load a WAD file by pressing the "S" and "M" keys when you see the logo screens after starting DOOM II and clicking the "Load WAD File..." button. Note that the WAD file should end with ".WAD".

4)   Also note that on some machines QuickTime may be unable to allocate sufficient memory for all of the music track's instruments. Particularly, this seems to affect the Drum Kits most often. In order to ensure that you are giving DOOM II as much memory as possible, press "S" or "M" (Single or Multiplayer) when you see the logo screens appear after launching DOOM II. Turn on the "Kill Finder and Other Applications" options to free more memory for the System Software (which includes QuickTime).

5) Quitting Ultimate DOOM by using the Command-Option-Escape method is not recommended, and is a System Software feature that is "unsupported" by Apple Computer, Inc. Quitting an application in this manner can cause the System to be in an unstable state. Reboot your Macintosh after quitting an application in this manner.

6) AV Macintoshes. Use the Sound Control Panel to set your "Sound Out" rate to 22 kHz if you have only 8MB of RAM memory installed in your Macintosh. The higher frequency rates will not increase the quality of the sound and will needlessly use RAM memory which is needed by the System Software and Ultimate DOOM.

7) We recommend that you turn off File Sharing, Virtual Memory, and any third party Extensions and Control Panels that are not absolutely needed to run your Macintosh. These System Extensions will use both RAM and processor time, which will inhibit the performance of Ultimate DOOM.

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Please read the instructions included in the installer. For your convenience, we have repeated them here. They contain information about getting the best possible speed out of your particular Macintosh, setup information, and other information that will be important for you.

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Installer Information
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VERY IMPORTANT: YOU MUST TURN OFF SYSTEM EXTENSIONS YOU PLAN TO INSTALL (SUCH AS QuickTime) AND VIRUS PROTECTION PROGRAMS PRIOR TO RUNNING THIS INSTALLER. OTHERWISE, INSTALLATION ERRORS MAY RESULT. VIRUS PROTECTION PROGRAMS MAY INACCURATELY REPORT THAT A VIRUS IS BEING INSTALLED. IN ORDER TO DISABLE EXTENSIONS/CONTROL PANELS, USE THE EXTENSIONS MANAGER CONTROL PANEL (SYSTEM 7.5 OR LATER), OR DRAG EXTENSIONS/CONTROL PANELS TO ANOTHER FOLDER (PRIOR TO SYSTEM 7.5). SEE THE DOCUMENTATION THAT ACCOMPANIED YOUR VIRUS PROTECTION SOFTWARE TO DETERMINE HOW TO DISABLE PROTECTION WHILE YOU INSTALL ULTIMATE DOOM.

PLEASE READ ALL OF THESE INSTRUCTIONS. INSTALLING THE SOFTWARE CONSTITUTES YOUR ACCEPTANCE OF THE LICENSING AGREEMENTS CONTAINED HEREIN.

The installer will create a folder named "Ultimate DOOM" on your hard drive to hold all the files installed. System Software that you select for installation (such as QuickTime) will be installed directly into your Control Panels and Extensions folders (within your hard drive's System Folder).

Use the DRIVE button to select the disk where you would like to install Ultimate DOOM. Click the INSTALL button to begin the installation. As the files are installed, you will be prompted to insert each of the distribution disks if you are installing from diskettes.

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Optional Installations
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QuickTime 2.0, Sound Manager 3.1, MacIPX and several Communication Toolbox tools are included in the installation. You may already have later versions of these software extensions loaded (you can check your Control Panels and Extensions folder inside your hard drive's System Folder). If you have later versions, you should not install the versions included with DOOM II.

QuickTime and Sound Manager 3.0 (at least) are required if you want background music while you play Ultimate DOOM. MacIPX is required for playing Ultimate DOOM on an IPX network (such as Novell's) between IBM PCs or compatibles and Macintosh computers. You do not need MacIPX in order to play between Macintosh computers on an AppleTalk (LocalTalk or Ethernet) network.

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Ultimate DOOM Options
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To access the Single Player Options, press the 'S' key when Ultimate DOOM first starts (when the logo screens are showing). To access the Multiplayer Options, press the 'M' key when Ultimate DOOM first starts. For maximum performance, select "Kill Finder and Other Applications" in either the single or multiplayer options dialog. Note: The Finder will automatically restart when you quit Ultimate DOOM.

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Increasing Performance
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A number of Control Panels and Extensions can have a negative impact on performance. Virtual Memory (use the Memory Control Panel to turn it off), File Sharing and other System Software Extensions can take up valuable CPU cycles, making Ultimate DOOM sluggish or jerky. Third party utilities, such as RAM Doubler, can also have a serious impact on performace. For best results, turn off all extensions except those you absolutely need, like QuickTime, Sound, Sound Manager, or network extensions (MacIPX, for instance). AppleShare is not required for AppleTalk games, although you will need the Ethernet extensions if your network is connected via Ethernet hardware.

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Hardware Accelerators
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On certain PowerPC-based systems it is possible to install a CPU accelerator. If you are experiencing problems running Ultimate DOOM, try disabling or removing your CPU accelerator. Certain accelerators are known to cause glitches or System Errors.

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Trademark Notices
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