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Doom v1.1 for the PSP

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Version 1.1 by Chilly Willy (ChillyWillyGuru@gmail.com) based on ADoomPPC version 1.7 by Jarmo Laakkonen (jami.laakkonen@kolumbus.fi) based on ADoomPPC version 1.3 by Joseph Fenton based on ADoom version 1.2 by Peter McGavin.

Icon and EB00T pics by Quare.

Alternate MIDI Instruments by Zer0-X/o'Moses based on samples from Christian Buchner's GMPlay V1.3 and the original MIDI Instruments file by Joseph Fenton.

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This archive contains a PSP port of ADoomPPC, itself a port of ADoom. ADoom is a port of ID Software's Linux DOOM. You can get the original ID Software Linux DOOM source from:

`ftp://ftp.cdrom.com/pub/idgames/idstuff/source/doomsrc.zip`

Source code for this port of Doom is included.

Doom for the PSP is aimed at the new Slim model, fully supporting TV out. However, it still runs on the older model PSP with 3.xx custom firmware.

Features on all models of PSP include three different resolutions on the LCD, stereo sound and music, and control over most of the game options. TV-out is specific to the Slim model.

Installation

Copy the DOOM folder to GAME on the Slim or a 3.xx custom firmware with the kernel mode set to 3.xx. You can also copy it to GAME371 on the Slim, or GAME3xx on 3.xx custom firmware.

Copy a main WAD file to the same drawer; if you wish to use the WAD file in a different drawer, see the instructions concerning WAD files below.

Requirements

Doom for PSP requires a PSP with 3.xx custom firmware. For use with a TV, you need a PSP Slim with a composite or component AV cable.

Doom for the PSP requires a WAD file compatible with DOOM for the PC or Macintosh; Hastings is selling a compilation of The Ultimate DOOM, DOOM II, and Final DOOM for around \$20 (US); get it. Only wimps use the shareware wad file. Despite the last sentence, the shareware WAD file is included so that you can play DOOM on your PSP right away.

GUI

At the upper level, press CIRCLE to run DOOM. You change your select in the menu using the directional pad. You can use Home to exit the program without running DOOM.

Load Settings: Press CROSS to load a settings file. The file requester is used to select the file. Be sure to only select a file made by the program. Press CIRCLE to cancel the file request.

Save Settings: Press CROSS to save the current settings. The PSP OSK is used to enter the save name. The default name is "doom.set", which is the name of the file loaded automatically when you start Doom for the PSP. You don't have to call your file this, but it won't be loaded automatically if you don't.

CPU Settings: Press CROSS to enter the CPU sub-menu. There is currently only one entry in the sub-menu - CPU Clock Frequency. Hold the CROSS button and use the directional pad to change the setting. Default means that DOOM will run at whatever speed the CPU was set to when the program was run. Press CIRCLE to return to the previous menu.

Video Settings: Press CROSS to enter the Video sub-menu. It has two sub-menus and a Display selector.

LCD Settings: Press CROSS to enter the LCD Settings sub-menu.

Resolution: Hold CROSS and use the d-pad to change the resolution. The selections are 480x272, 368x272, and 320x240.

Sync to VBlank: Press CROSS to toggle on or off. When on, the video refresh waits for the vertical blank before flipping the screen.

Detail: Hold CROSS and use the d-pad to select High or Low detail. This sets the starting detail mode of DOOM regardless of what you set it to the last time you played.

TV Settings: Press CROSS to enter the TV Settings sub-menu.

Cable: This just tells you what TV cable is detected.

Resolution: Hold CROSS and use the d-pad to change the resolution. The selections are 720x480, 704x448, and 640x400. There are two reasons to having smaller screens for the TV. First, DOOM is an old-style 2.5D game, and every single pixel has to be rendered by the CPU. 720x480 is a LOT of pixels for a 200-300 MHz CPU to push around. 640x400 is noticeably faster. Second, a smaller screen allows you to compensate for overscan on the TV, and adjust the positioning so that it looks good on YOUR TV.

Sync to VBlank: Press CROSS to toggle on or off. When on, the video refresh waits for the vertical blank before flipping the screen.

Detail: Hold CROSS and use the d-pad to select High or Low detail. This sets the starting detail mode of DOOM regardless of what you set it to the last time you played.

Interlace: Press CROSS to toggle on or off. Only enabled if you have the component cable since the composite cable is interlaced only. Set this to on if your TV doesn't support progressive video.

Aspect Ratio: Hold CROSS and use the d-pad to select 4:3 or 16:9. This is where YOU tell the program the aspect ratio of the TV hooked to the PSP since it can't tell. 16:9 gives you a wider field of view in the game (you can see more side to side). If you think it looks funny, just set this to 4:3 instead for the "normal" DOOM view.

Center Screen: Press CROSS and the PSP should go black while the TV screen shows a calibration screen. Use the d-pad to center the screen (704x448 or 640x400 only!). press CROSS or CIRCLE to exit back to the PSP menu. Note - at the moment, you'll need to tap the Display button to get the LCD to come on after the TV goes off.

Display: Hold CROSS and use the d-pad to select between showing DOOM on

the LCD or the TV. This is disabled if there is no cable found, or an error occurs while trying to load and call the TV library.

Sound Settings: Press CROSS to enter the Sound Settings sub-menu.

Update Frequency: Hold CROSS and use the d-pad to select 140 Hz, 70 Hz, or 35 Hz. This is an artifact from when I wrote this code for AROS. You MIGHT save a little speed with 35 Hz, but it's possible the music may sound odd once in awhile.

Sound Effects: Press CROSS to toggle on or off. Disables all sound when off.

Music: Press CROSS to toggle on or off. Disables music when off, but not sound effects.

Controller Settings: Press CROSS to enter the Controller Settings sub-menu.

Disable Analog Stick: Press CROSS to toggle on or off. When on, the analog stick will not be used as a mouse inside the game.

Calibrate Analog Stick: Press CROSS to enter the calibration routine. You need to try to make the minimum and maximum values as small and large, respectively, as possible, then allow the stick return to its natural center. Press CROSS or CIRCLE to return to the previous menu.

TRIANGLE + CIRCLE Cheat: Hold CROSS and use the d-pad to select a cheat.

TRIANGLE + CROSS Cheat: Hold CROSS and use the d-pad to select a cheat.

TRIANGLE + SQUARE Cheat: Hold CROSS and use the d-pad to select a cheat.

Game Settings: Press CROSS to enter the Game Settings sub-menu.

Various game flags: Press CROSS to toggle on or off. Notable flags include Respawn and Deathmatch.

Main WAD: Press CROSS to bring up the file requester.

Patch WAD: Press CROSS to bring up the file requester. There are four patch WAD fields.

DEH File : Press CROSS to bring up the file requester. there are four deh file fields.

Advanced Settings: Press CROSS to enter the Advanced Settings sub-menu.

Force Demo: Press CROSS to toggle on or off. When on, it forces DOOM to attempt to play demos from other versions of DOOM.

Record / Play Demo / Time Demo: Hold CROSS and use the d-pad to select the number of the demo file to Record/Play/Time. Zero means no demo. If you wish to time a demo, be sure to set Force Demo to on as well.

Other settings: Same old, same old. You should be able to figure it out if you need it.

About: Press CROSS to see the About screen.

Controls

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TRIANGLE acts as an alternate function selector, or as the 'y' key when you select QUIT.

The following controls are when you are not pressing TRIANGLE:

Analog stick - mouse
D-Pad - forward/back/turn
LTRIGGER - strafe left
RTRIGGER - strafe right
CIRCLE - action
CROSS - fire
SQUARE - run
START - pause
SELECT - map

The following controls are when you are pressing TRIANGLE:

D-Pad UP - change gamma setting
D-Pad DOWN - toggle the detail setting
D-Pad Left - previous cheat
D-Pad Right - next cheat
LTRIGGER - previous weapon
RTRIGGER - next weapon
CIRCLE - instant cheat 1
CROSS - instant cheat 2
SQUARE - instant cheat 3
SELECT - menu

WAD Files

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WAD files should be in the in the iwad directory, or a subdirectory therein. While it is not a requirement, the requester starts in the iwad directory.

Some older Registered WAD files may not work due to later changes made to the WAD file contents.

It is possible to upgrade at least some old main WAD files using freely available patches from <ftp://ftp.idsoftware.com/idstuff/doom/>. You need a PC to apply the patches.

Playstation WAD files do not work as they are split by level and compressed.

WAD files from games derived from DOOM (such as Heretic or Hexen) do not work due to differences in WAD contents.

The Ultimate DOOM WAD file must be named DOOMU.WAD to work.

The FreeDoom WAD does not work because it is designed for BOOM, not DOOM.

Patch WAD Files

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Patch WAD files are used to change graphics, sounds, and level designs on DOOM; many are available on CDRom and the net. You can choose up to four patch WAD files with DOOM for the PSP. It is recommended that you put patch WAD files into the appropriate subdirectory of the pwad directory. Patch WAD files are made for

a specific version of the DOOM WAD, so keep them straight. Again, this is not a requirement. Doom for the PSP uses full path names for all files, so a file can be located anywhere on the memstick. It's just quicker and easier to use the recommended directories.

DeHackEd

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DeHackEd is a PC program that patches certain internal tables inside DOOM so that certain effects can be achieved; these include, a rapid fire shotgun, floating barrels, and many other things.

Doom for the PSP supports the use of DeHackEd configuration files; they have a .DEH extension on them. You may select up to four DEH files. It is recommended that you put them in the deh directory, but again, is not required.

Networking

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Sorry, no networking this time. I do plan to work on it. I just wanted something quick that uses the TV.

Cheats

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There are two kinds of cheats: "instant" cheats and selected cheats. Instant cheats are set up in the GUI. You press TRIANGLE and one of the other three main buttons to activate an instant cheat. Selected cheats are always available. You hold TRIANGLE and press RIGHT or LEFT until you reach the cheat you wish, then release TRIANGLE.

History

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v1.1 - 2007/10/29: Fixed problem with strafing and turning at the same time. Big cleanup of the controller handling code in general. Added ability to disable the analog stick and to calibrate it. Added two forms of cheats. If there is no default settings file, or if the default doesn't specify the main WAD file, it now tries to set the main WAD to the shareware WAD (idiot compensator).

v1.0 - 2007/10/28: First version for the PSP. Need to add networking and cheats. The FOV in 16:9 mode is a bit iffy, but not too bad.