

# PoP1 for FM Towns under GNU/Linux

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This short HOWTO explains how to run the FM Towns version of Prince of Persia under GNU/Linux without the CDEmu repositories.

NOTE (loop): In case you are wondering why we are not mounting via a loop device (with -o loop), read up on hardware emulation.<sup>1</sup>

NOTE (Debian): CMake 2.8.5 or higher is required. Debian Squeeze has 2.8.2, so if you run Debian, make sure you're using Wheezy or newer. (In /etc/apt/sources.list change all "squeeze" to "wheezy", then run # apt-get update; apt-get dist-upgrade.)

NOTE (kernel): If you ever change your kernel, you need to redo steps 1b, 3a and 6 and further.

**1.** Let's start by making sure we have all the tools and libraries required to continue.

**1a.** # apt-get install build-essential cmake-curses-gui libao-dev libglib2.0-dev intltool gir1.2-notify-0.7

**1b.** # apt-get install linux-headers-\$(uname -r)

**2.** Download the core software and gCDEmu client source packages. Visit <http://cdemu.sourceforge.net/project/#download> and download "vhba-module", "cdemu-daemon", "libmirage" and "gCDEmu".

**3.** Unpack these packages (\$ tar xvjf <file>) and then compile and install them as follows.

**3a.** vhba-module:

```
$ make
# make install
```

**3b.** libmirage:

```
$ mkdir build
$ cd build
$ cmake ..
press c (configure)
press c (configure) [sic]
press g (generate and exit)
$ make
# make install
```

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<sup>1</sup> See, for example: <http://forum.winehq.org/viewtopic.php?t=12746>

**3c.** cdemu-daemon:  
(same as libmirage)

**3d.** gCDEmu:  
(same as libmirage)

**4.** # ln -s /usr/local/lib/i386-linux-gnu/libmirage.so.9 /usr/lib/libmirage.so.9

**5.** # ldconfig

**6.** # depmod -a

**7.** # modprobe vhba

**8.** # chmod a+rwX /dev/vhba\_ctl

**9.** \$ cdemu-daemon &  
(Not as root.)

**10.** \$ gcdemu &

**11.** Right click the gCDEmu tray icon and right click on its "Device #00: Empty" to open the PoP1\_FM\_Towns.iso CD-ROM image.

**12.** Right click the CD-ROM icon on the desktop and mount it.

**13.** \$ wine cmd

**14.** Find the drive that contains the Prince of Persia CD-ROM. (For me it was E: on one computer, L: on another.) Remember it for step 16. Then: >exit

**15.** In the Unz\_0.5\_L30/ directory, run: \$ wine Unz.exe &

NOTE (Wine): You may want to get yourself the latest Wine. See *Appendix A*. If you get an "intel\_do\_flush\_locked failed: Input/output error", get yourself better hardware or drivers if your system properly supports OpenGL.

**16.** On the CD-ROM1 tab of the Unz settings (Settings menu, select "Property..."), in the "Emulation type" section, choose "Select drive" and select the drive letter you found during step 14.

**17.** Press the OK button to close Unz.

**18.** Restart Unz.

**19.** Prince of Persia starts! From the Drive0 menu, select "*Insert...*" and open floppy.bin.

**20.** Use the space bar to select the first option from the game's menu.

NOTE (music): If you have an ISO file with music tracks but hear no music, try the following. On the CD-ROM2 tab of the Unz settings, in the "*CD-DA volume control*" section, check "*Ignore*". Also, make sure to increase the CD volume *after* the game has started (with, for example, alsamixer).

## Appendix A: Installing Wine

Download the latest source package via:

<http://sourceforge.net/projects/wine/files/latest/download?source=files>

```
# apt-get install flex bison libx11-dev libfreetype6-dev libxcursor-dev libxi-dev  
libxxf86vm-dev libxrandr-dev libxinerama-dev libxcomposite-dev libglu1-mesa-dev  
libosmesa6-dev libdbus-1-dev libgnutls-dev libncurses5-dev libsane-dev liblcms1-dev  
libgstreamer0.10-dev libcapi20-dev libcups2-dev libgsm1-dev libmpg123-dev  
libopenal-dev libldap2-dev prelink libxslt1-dev libpng12-dev libasound2-dev  
libfontconfig1-dev libhal-dev libsane-dev libgstreamer-plugins-base0.10-dev  
ocl-icd-openssl-dev  
$ make  
# make install
```