

USING PC99 WITH DOSEMU 1.4.0.1 (using the Freedos supplied with dosemu)

Install DOSEMU 1.4.0.1 and run `xdosemu` (under X11) or `dosemu` (if at Linux console)

This will set in place a file structure which may vary in different Linux distributions but the use of the home directory will probably be identical in all. In most use (but see below re sound) only the home directory is of importance.

Using an X11 server the command to use is `xdosemu`

In my system running XDOSEMU creates:

in my home directory: `.dosemu/`

containing directories `drive_c` which contains:

directory `/tmp`

and files `autoexec.bat`

`config.sys`

`run` which contains `dosemu-midi`

drives which contains:

`c` which links to `drive_c` above

`d` which links to `/usr/share/dosemu/drive_z`

(Note - using letters in any other order will not change use, in dos first will be `c` anyway)

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[We have linked for no great reason to `/etc/dosemu/drives/d` and then the link is onward to `/usr/share/dosemu/drive_z`]

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In `/usr/share/dosemu/drive_z` can be found FreeDOS in several directories and files `kernel.sys` and `command.com`.

The files `autoexec.bat` and `config.sys` are templates copied to your home directory and are not used.

The files `autoemu.bat` and `config.emu` are provided in case you wish to use some other dos than freedos.

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Drive **D** for dosemu - not really relevant for PC99 but this reflects our install:

By default drive `d` is in your home directory but I have mapped it to the location I prefer by means of an entry in `autoexec.bat`. First REM out the old lines referring to drive `D`:

```
rem unix -s DOSDRIVE_D
rem if "%DOSDRIVE_D%" == "" goto nodrived
rem lredir del d: > nul
rem lredir d: linux\fs%DOSDRIVE_D%
rem :nodrived
```

then insert:

```
lredir del d: > nul
lredir d: linux\fs/newlocation eg where newlocation would be eg /windows/e/dosdata
```

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Our PC99 is in /win/x which we have allocated a DOS drive as follows in config.sys:
devicehigh=d:\dosemu\emufs.sys /win/x

Although we have used d: in the devicehigh setting, emufs.sys will end up mapped in z: due to changes later on by config.sys. DOS has already been told about drives C and D(to become Z) so it will allocate DOS drive E for PC99.

I launch PC99 using George's menu.bat system (available from us free [shareware])
To run pc99 I have created a couple of batch files located in E:\PC99:

```
dosemu.bat is:  
@ECHO OFF  
E:  
CD \PC99  
CALL 99MENU.BAT  
EXITEMU
```

99menu.bat is the same as supplied with PC99 Menu.

And I run this with `xdosemu -E "E:\PC99\dosemu.bat"` (including the double quotes).
Note the path to the batch file is a DOS path, with backslashes, the -E is passing this to dosemu as a dos command.

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SOUND: dosemu has issues with sound, notably not supporting fm sound and uses a legacy sound system called OSS.

Additionally on our system we have had to amend the default sound setting for dosemu. This is by adjusting the "\$_sound" setting in (on our system) /etc/dosemu/dosemu.conf.

Change the sound setting line to read "\$_sound = (2)". Set PC99's sound configuration to Soundblaster Compatible.