

1 Introduction

This description will help you to use Dosbox with old retro games. The example is dedicated to Dosbox with Eye of Beholder (EOB).

2 Content

The issue with Dosbox for old games on the PI is that it issues Surface for displaying graphics.

Today SDL 1.2 has not the capability to scale or stretch images. This is visible in emulators such as UAE, hatari,... which are using SDL 1.2. With using a more high-tech library SDL 2.0, stretching would be easy for programmers.

Dosbox uses surface, but it is also possible to use other drivers. Since OPENGL is available now on the Raspberry PI, it would allow larger range of opportunities, without cycling the CPU and getting very hot the PI (high CPU usage).

3 Steps to install

The first step is to go to Raspi config: raspi-config and go to the menu to enable the full OpenGL. This will not improve much performances, but it will give you another driver : Opengl.

After restart you may use the following config. I have a large monitor, which can 1920x1080 (with overscan change).

I have set the large enough size for OpenGL in Dosbox.

- fullscreen=false
- fulldouble=false
- fullresolution=1680x1050
- windowresolution=1680x1050
- output=opengl
- autolock=true
- sensitivity=100
- waitonerror=true

- priority=higher,normal
- mapperfile=mapper-0.74.map
- usescancodes=true

4 Conclusion

Raspberry PI has great capabilities. Dosbox is amazing and it is possible to play Retro PC games on DOS. EOB is one of the hundreds of fantastic role games. This method takes care about avoiding bloating and high CPU usage.

Enjoy Retro Gaming On Raspberry PI.