

# What is gxfb?

This is a graphics framebuffer driver for AMD Geode GX2 based processors.

Advantages:

- No need to use AMD's VSA code (or other VESA emulation layer) in the BIOS.
- It provides a nice large console (128 cols + 48 lines with 1024x768) without using tiny, unreadable fonts.
- You can run XF68\_FBDev on top of /dev/fb0
- Most important: boot logo :-)

Disadvantages:

- graphic mode is slower than text mode...

## How to use it?

Switching modes is done using `gxfb.mode_option=<resolution>...` boot parameter or using `fbset` program.

See Documentation/fb/modedb.rst for more information on modedb resolutions.

## X11

XF68\_FBDev should generally work fine, but it is non-accelerated.

## Configuration

You can pass kernel command line options to gxfb with `gxfb.<option>`. For example, `gxfb.mode_option=800x600@75`. Accepted options:

mode_option	specify the video mode. Of the form <code>&lt;x&gt;x&lt;y&gt;[-&lt;bpp&gt;][@&lt;refresh&gt;]</code>
vram	size of video ram (normally auto-detected)
vt_switch	enable vt switching during suspend/resume. The vt switch is slow, but harmless.

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