

This chapter describes how to change the Creator™ and Creator 3D™ Graphics Accelerator screen resolution to work properly with different monitors.

You can change the Creator X11 screen and associated graphics hardware through the `ffbconfig` utility. Options are specified on the command line. The specified options are stored in the `OWconfig` file. You use these options to initialize the Creator device the next time Xsun is run on that device. Updating options in the `OWconfig` file provides persistence of these options across Xsun sessions and system reboots.

You use the `ffbconfig` utility to specify the following:

- Video mode (screen resolution and refresh rate)
- Type of visuals (linear or nonlinear)
- Whether to use 8-bit pseudocolor visual (overlay visual)
- Whether linear visuals will come before their nonlinear counterparts
- The maximum number of Creator X channel pixels reserved for use as WIDs

Default Screen Resolutions

Table 5-1 lists the default screen resolutions by monitor ID sense code.

Table 5-1 Creator Frame Buffer Monitor Sense Codes

Code	Screen Resolution
7	1152 × 900 at 66 Hz
6	1152 × 900 at 76 Hz
5	1152 × 900 at 66 Hz
4	1280 × 1024 at 67 Hz
3	1152 × 900 at 66 Hz
2	1280 × 1024 at 76 Hz
1	1152 × 900 at 66 Hz
0	1024 × 768 at 76 Hz

If the Creator is unable to determine the monitor type, such as for non-Sun monitors, it defaults to a resolution of 1152 × 900 at 66 Hz.

Supported Screen Resolutions

Table 5-2 lists the screen resolutions the Creator Graphics Accelerator supports.

Table 5-2 Creator Supported Screen Resolutions

Screen Resolution	Vertical Refresh Rate	Description
1280 × 1024	76 Hz	Non-interlaced
1280 × 1024	67 Hz	Non-interlaced
1152 × 900	76 Hz	Non-interlaced
1152 × 900	66 Hz	Non-interlaced
1024 × 800	84 Hz	Non-interlaced
1024 × 768	77 Hz	Non-interlaced
1024 × 768	70 Hz	Non-interlaced
1024 × 768	60 Hz	SVGA

Table 5-2 Creator Supported Screen Resolutions (Continued)

Screen Resolution	Vertical Refresh Rate	Description
960 × 680	112 Hz	Stereo, non-interlaced, 56 Hz field rate per eye
960 × 680	108 Hz	Stereo, non-interlaced, 54 Hz field rate per eye
768 × 575	50	Interlaced – PAL
640 × 480	60 Hz	VGA
640 × 480	60 Hz	Interlaced – NTSC

Changing the Screen Resolution Temporarily

This example changes the screen resolution temporarily, for example as a test to determine if the monitor supports the specified resolution.

```
ffbconfig -res video-mode try
```

The *video-mode* options are listed in Table 5-2.

You will have 5 seconds to confirm the video mode by typing *y*.

Table 5-3 Creator Screen Resolution Formats

Video Mode		
Built-in	Symbolic Name	Resolution
1280x1024x76	1280	1280 × 1024 at 76 Hz
1280x1024x67		1280 × 1024 at 67 Hz
1152x900x76	1152	1152 × 900 at 76 Hz
1152x900x66		1152 × 900 at 66 Hz
1024x800x84		1024 × 800 at 84 Hz
1024x768x77		1024 × 768 at 77 Hz
1024x768x70		1024 × 768 at 70 Hz
1024x768x60	svga	1024 × 768 at 60 Hz
960x680x112s	stereo	960 × 680 stereo at 112 Hz per eye
960x680x108s		960 × 680 stereo at 108 Hz per eye

Table 5-3 Creator Screen Resolution Formats (Continued)

Video Mode		
Built-in	Symbolic Name	Resolution
768x575x50i	pal	768 × 575 at 50 Hz, interlaced
640x480x60	vga	640 × 480 at 60 Hz, non-interlaced
640x480x60i	ntsc	640 × 480 at 60 Hz, interlaced

Changing Screen Resolution to Stereo

This example changes the screen resolution to 960 × 680 at 112 Hz, stereo the next time Xsun is run.

```
ffbconfig -res stereo
```

Changing the Visual List Order

By default, the nonlinear visual is displayed before the linear visual on the screen visual list. Nonlinear visual is the default 24-bit TrueColor visual. If you prefer gamma-corrected 24-bit TrueColor to become your default value, you can modify the order of the visual list by using the `ffbconfig` command.

OpenWindows should not be running when you run the `ffbconfig` script. Start OpenWindows after `ffbconfig` has set the linearity you desire.

To change the setting, enter the `ffbconfig` command with one of the `-lineorder` options. For example:

```
ffbconfig -linearorder first
```