

Red Hat Linux 8.0 ProSavage Display Driver Installation Guide

1. Summary

This document describes how to install the display driver under the Red Hat Linux 8.0. It is targeted at VIA ProSavage north bridge chips with an integrated Savage4 AGP 4X graphics core, including:

The method utilizes the built-in S3 Savage/Savage4 display driver. Customizing display settings such as resolution and color depth are also explained.

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2. Built-in S3 Savage/Savage4 display driver

(1) While installing Red Hat Linux 8.0, select the “S3 Savage (generic)” or “S3 Savage4 (generic)” in the X configuration and change the “Video Card Ram” to the value set in BIOS. We recommend allocating at least 8 MB memory for the frame buffer.

(2) After finishing the packages installation, select monitor type in Monitor Configuration. If your monitor doesn’t appear on the list, select the “Generic” and modify the horizontal and vertical range according to your monitor specification.

(3) Next, you can test your configuration in the “Custom Configuration”. Click “Test Setting” to try out your configuration. If you cannot see anything, you might change the “Color Depth” or “Screen Resolution”. You can also choose whether you want to boot your system in text or graphics mode.

(4) After you finish the installation, restart the system. Next time you will login with X-window if you choose “Graphical” during installation. Or you will be presented with a command prompt. Then you can also type “startx” to enter X-window.

(5) Use the display setting tool to set up resolutions, color depths, and so on. Go to the panel /Red Hat/ System Settings/ Display to open the tool, which will show two parts of “Display” and “Advanced” in the panel. The former shows the available resolutions and color depths according to the graphics chips and the monitor used. The latter allows user to configure their “Monitor” and “Video Card”. Click on the configure button to change those settings. Finally, users need to log out from the X Windows to let the change take effect, by typing [Ctrl+Alt+Backspace] to refresh the X-Window.

3. Display mode table

The following table shows the supported resolution, color depth, screen refresh rate, as tested on the Bridge BM17C display monitor.

Screen resolution	Color depth	Refresh rate
640x480	8, 16, 24	85
800x600	8, 16, 24	85
1024x768	8, 16, 24	85
1152x864	8, 16, 24	75
1280x1024	8, 16, 24	60

WARNING: The refresh rates may be further adjusted by using the “`xvi dtune`” command in the console under X window. However, the program may result in permanent damages to the monitor and the display card; use with extreme caution.