Knowledge for ATI Rage 128 Users

Precision Insight, Inc., SuSE GmbH
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1. Supported Hardware
   • ATI Rage 128 based cards

2. Features
   • Full support (including hardware accelerated 2D drawing) for 8, 15, 16, 24 bit pixel depths.
   • Hardware cursor support to reduce sprite flicker.
   • Support for high resolution video modes up to 1800x1440 @ 70Hz.
   • Support for doublescan video modes (e.g., 320x200 and 320x240).
   • Support for gamma correction at all pixel depths.
   • Fully programmable clock supported.
   • Robust text mode restore for VT switching.

3. Technical Notes
   • None

4. Reported Working Video Cards
   • Rage Fury AGP 32MB
   • XPERT1 28 AGP 16MB
   • XPERT9 9A GP 8MB

5. Configuration
   The driver auto-detects all device information necessary to initialize the card. The only lines you need in the "Device" section of your XF86Config file are:

   Section "Device"
   Identifier "Rage 128"
   Driver "r128"
   EndSection

or let xf86config do this for you.
However, if you have problems with auto-detection, you can specify:
• VideoRam - in kilobytes
• MemBase - physical address of the linear framebuffer
• IOBase - physical address of the memory mapped IO registers
• ChipID - PCI DEVICE ID

6. Driver Options

• "hw_cursor" - request hardware cursor (default)
• "sw_cursor" - software cursor only
• "no_accel" - software rendering only
• "dac_8_bit" - use color weight 888 in 8 bpp mode (default)
• "dac_6_bit" - use color weight 666 in 8 bpp mode (VGA emulation)

7. Known Limitations

• None

8. Authors

The XFree86 4 driver was ported from XFree86 3.3.x and enhanced by:

• Rickard E. (Rik) Faith
• Kevin E. Martin

The XFree86 4 driver was funded by ATI and was donated to The XFree86 Project by:

Precision Insight, Inc.
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The XFree86 3.3.x driver used for the port was written by:

• Rickard E. (Rik) Faith
• Kevin E. Martin

The XFree86 3.3.x driver was funded by ATI and was donated to The XFree86 Project by Precision Insight, Inc. It was based in part on an earlier driver that was written by:

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