

Intel® GMA 500 Driver for Linux

Production Version - 2.0.1.32L.0016

Release Notes

6/06/2008

Supported Operating Systems

Fedora Core 6* Operating System

Ubuntu* Mobile & Embedded (UME)

Moblin

MIDINUX* 2.0

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Date	Driver Revision	Description	Build Number
November 07, 2007	Alpha Candidate 1	Initial Alpha Candidate 1 for Poulsbo executing on Linux operating system	NA
November 30, 2007	Alpha - 2.0.0.32L.0004	Alpha 2 feature complete graphics driver for Poulsbo executing on Linux operating system	0004
February 01, 2008	Alpha2 - 2.0.0.32L.0007	Alpha 3 feature complete graphics driver for Poulsbo executing on Linux operating system	0007
February 15, 2008	Beta1 - 2.0.0.32L.0008	Beta1 feature complete graphics driver for Poulsbo executing on Linux operating system	0008
April 04, 2008	Beta2 - 2.0.0.32L.0010	Beta2 feature complete graphics driver for Intel® SCH executing on Linux operating system	0010
May 02, 2008	PC - 2.0.0.32L.0014	Production Candidate for Intel® SCH executing on Linux operating system	0014
May 08, 2008	PV – 2.0.0.32L.0014	Production Version for Intel® SCH	0014

		executing on Linux operating system	
May 23, 2008	PV – 2.0.0.32L.0015	Production Version for Intel® SCH executing on Linux operating system	0015
June 6, 2008	PV – 2.0.1.32L.0016	Production Version for Intel® SCH executing on Linux operating system	0016

Intel® GMA 500 Driver for Linux

The Production Version release of the Intel® GMA 500 Driver for Linux contains support for the QS steppings of the Intel® System Controller Hub executing on the Linux operating system.

The following outlines features that have not yet been completed or contain issues that may impact functionality. It is recommended to limit testing in the following areas:

- 3D Desktop Compositing
 - Current open source DRI framework does not support composition managers
 - https://bugs.freedesktop.org/show_bug.cgi?id=8732

Platform Configuration

The following outlines the set dependencies associated with the Linux graphics driver that has been validated for this release

	Fedora Core 6	UME (Hardy - 20080530)	Moblin (20080414)	MIDINUX 2.0 (Build 14)
Component	Version	Version	Version	Version
Kernel	2.6.20	2.6.24	2.6.22	2.6.22
X.org	1.3	1.4	1.3	1.3
MESA	7.0	7.0	7.0	7.0
Libdrm	2.3.xx	2.3.xx	2.3.xx	2.3.xx
Menlow Codecs	PV 1.0.012	PV 1.0.012	PV 1.0.012	PV 1.0.012

Feature Supported

Reference No	Description
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N/A	All Display Features (Clone, Rotation, Extended Desktop)
N/A	<p>Panels supported by VBIOS. This can be changed through the BIOS panel option. The default boot-up setting is panel #7</p> <p>#1 = VGA 640x480 #2 = VESA 800x600 #3 = VESA 1024x768 #4 = 640 x 480 8.4" NEC #5 = 800 x 480 9" NEC #6 = 1024 x 600 5.61" TMD #7 = 1024 x 768 15" Samsung #8 = 1280 x 768 Generic timing #9 = 1280 x 768 7.2" Sharp #10 = 1280 x 800 15.4" Samsung #11 = 1024 x 768 Generic timing #12 = 1024 x 768 Generic timing #13 = 1024 x 768 Generic timing #14 = 1280 x 800 Generic timing #15 = 1280 x 600 Generic timing #16 = 1366 x 768 11.1" TMD</p>
NA	All 3D features completed
NA	All Video features completed
NA	Feature support added for UL11L sku of Intel® System Controller

Known Issues

Sighting Number	Component	Title
1891133, 1892231	Video	Random system hang during playback of some video content with Helix plugins
1892154	2D/3D	Display flickering seen on CRT monitor in dual display mode when running 2D/3D app.
1891204	Power Management	System Hang when entering into S3 after running 3D application

Resolved Issues

Sighting Number	Component	Title
18250	2D/3D	Corruption on the LCD screen upon entering and resuming from S3
1890459	Internal Display	When lid switch is turned off (when lid is closed) it does not stay off as expected. Mouse / keyboard action may turn on display.
1890797	2D/3D	Entering S3 state with the Poulsbo 2D drivers may cause

		system to hang.
1890925	2D/3D	Some X server tests may fail with the Poulsbo 2D drivers that do not fail with the VESA drivers.
1891074	Rotation	Application glxgears is not displayed when rotated or is unable to rotate when requested
1891095	2D/3D	EXA-based 2D Acceleration tests : Some rendercheck cases fail. Composite tests: 98.89% pass, Repeat tests: 35.58% pass, Triangle tests: 92.31% pass
1891096	2D/3D	Xv Extension only supports UYVY and YUY2 formats, does not support YUV12 format yet
1891097	2D/3D	X DGA (Direct Graphics Access) extension is unusable
1891098	2D/3D	Glean test cases api2, depthStencil, fragProg1, glsl1,exactRGBA, polygonOffset, pointAtte fail or are unable to execute
1891099	2D/3D	Mesa demos: fire, ipers, lodbias, paltex, shadowtex, streaming_rect, trispd, vao_demo and X demos: glthreads, glxcontexts, manywin, pbdemo, pbinfo, yuvrect_client fail or unable to execute
1891100	2D/3D	3D Applications x11perf, GoogleEarth, PPracer, Ut2004 and Doom 3 fail or are unable to execute
1891104	Video	Video Acceleration API (vaapi) returns incorrect error code when providing invalid parameters
1891204	Power Management	System hang when entering into S3
1891326	External Display	Adding default mode to xorg.conf doesn't work for TV
1891327	External Display	Linux drivers will support NTSC_M, NTSC_M_J, PAL_M, PAL_60, but setting to other TV formats may cause flashing
1891369	External Display	TV format would return to NTSC_M when rotating image to the left, right or inverted
1892352	Video	CPU utilization increases when playing video in the background