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Intel® Graphics Drivers

Production Version 5.1

Release Notes

August 2000

Supported Chipsets:

Intel® 810 chipset Intel® 810E chipset Intel® 815 chipset Intel® 815E chipset

Supported Operating Systems:

Windows* 95 Windows* 98 Windows* Millenium Edition* Windows* NT* 4.0 Windows* 2000

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Revision History

| Rev. | Document Description | Date |
|---|--|----------------------|
| Intel® 810 and Intel® 810E Chipset Software Kit Windows* 95 and Windows* 98 Production Version 1.1 Windows NT 4.0 Production Version 1.1 | Resolved/known issues since Production Version 1.0 release | July 2, 1999 |
| Intel® 810 and Intel® 810E Chipset Software Kit Windows* 95 and Windows* 98 Production Version 2.0 Windows NT 4.0 Production Version 2.0 | Resolved/known issues since Production Version 1.1 release | August 7, 1999 |
| Intel® 810 and Intel® 810E Chipset Software Kit Windows* 95 and Windows* 98 Production Version 2.1 Windows NT 4.0 Production Version 2.1 | Resolved/known issues since Production Version 1.1 release | October 11, 1999 |
| Intel® 810 and Intel® 810E Chipset Software Kit Windows* 95 and Windows* 98 Production Version 2.5 Windows NT 4.0 Production Version 2.5 | Resolved/known issues since Production Version 2.1 release | November 11, 1999 |
| Intel® 810 and Intel® 810E Chipset Software Kit Windows* 95 and Windows* 98 Production Version 3.0 Windows NT 4.0 Production Version 3.0 | Resolved/known issues since Production Version 2.5 release | December 8, 1999 |
| Intel® 810 and Intel® 810E Chipset Software Kit Windows* 95 and Windows* 98 Production Version 3.2 Windows NT 4.0 Production Version 3.2 | Resolved issues since Production Version 3.0 release | February 11, 2000 |
| Intel® 810 and Intel® 810E Chipset Software Kit Windows* 95 and Windows* 98 Production Version 3.3 Windows NT 4.0 Production Version 3.3 Windows 2000 Production Version 3.3 | Resolved issues since Production Version 3.2 release | March 7, 2000 |
| Intel® 810 and Intel® 810E Chipset Software Kit Windows* 95 and Windows* 98 Production Version 4.1 Windows NT 4.0 Production Version 4.1 Windows 2000 Production Version 4.1 | Resolved issues since Production Version 3.3 release | April 21, 2000 |
| Intel® Graphics Drivers Production Version 5.1 | Resolved issues since Production Version 4.1 and Production Version 4.2 releases | August 28, 2000 |

Preface

This document contains records of resolved software issues and changes affecting the Microsoft Windows* 95, Windows* 98, Windows* Millenium Edition*, Windows* NT 4.0, and Windows* 2000 graphics driver releases that use the Intel® 810, Intel® 810E, Intel® 815, and Intel® 815E chipset graphics accelerators. This document is intended for end users of these chipsets.

Summary Table of Resolved Issues

The following table lists the resolved software issues that apply to recent Intel® Graphics Driver releases. This table uses the following codes:

Codes Used in Summary Table

| X: | Issue pertains to a particular software release and may pertain to releases previous to the indicated release. |
|--------|--|
| Fixed: | This issue is fixed in the current software release. |
| NDR: | Not related to the Intel® Graphics Drivers. |
| N/A: | Not applicable |

Resolved Driver Issues (Windows* 95, Windows* 98, Windows* Millenium Edition* Release)

| | Windows* 95 Windows* 98, and Windows* Me* 3D Applications and Games | | | | | | | | | | | | | |
|-----|---|--------------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|
| NO. | PV2.0 | PV2.1 | PV2.5 | PV3.0 | PV3.2 | PV3.3 | PV4.1 | PV5.1 | Issue | | | | | |
| 1 | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Monster Truck Madness* intro corruption | | | | | |
| 2 | х | х | х | Fixed | Fixed | Fixed | Fixed | Fixed | Corruption running Twist*, Donut* and FoxBear* applications simultaneously | | | | | |
| 3 | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Some non-H/W-accelerated OpenGL* applications hang with the DOS prompt when at least two are running simultaneously. | | | | | |
| 4 | х | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Atlantis* and Heretic II* freeze when maximizing and exiting the applications. | | | | | |
| 5 | х | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Hangs occur when exiting GLQuake* (at 800x600 display resolution) or GLHexen* (at 640x480 display resolution). | | | | | |
| 6 | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Quake II* application runs very slowly with 32 MB of system memory. | | | | | |
| 7 | x | х | x | Fixed | Fixed | Fixed | Fixed | Fixed | Unable to restore/awaken system from S1 and S3 power states when running OGL Tunnel*. | | | | | |
| 8 | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Starsiege TRIBES* application blacks out when launched at 640x480 display resolution. | | | | | |
| 9 | х | х | х | Fixed | Fixed | Fixed | Fixed | Fixed | A general protection fault (GPF) occurs when exiting G-Nome* game application. | | | | | |
| 10 | х | x | x | Fixed | Fixed | Fixed | Fixed | Fixed | Motocross Madness* application fails to load under Windows* 95. | | | | | |
| 11 | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Screen corruption occurs in Half-Life* game application when it is run in D3D mode display configuration, at all resolutions lower than 800x600. | | | | | |
| 12 | х | x | NDR | NDR | NDR | NDR | NDR | NDR | Thief * and System Shock* 2,D3D application hangs under Windows 98 when game play is attempted. | | | | | |
| 13 | х | х | х | Fixed | Fixed | Fixed | Fixed | Fixed | 3DFlip Cube* application fails under Windows 98 or 95 with DX5 installed, when attempting to change to 1280x1024x16 bpp. | | | | | |
| 14 | х | х | х | Fixed | Fixed | Fixed | Fixed | Fixed | Textures disappear when running Hyberblade* application with Rearview Mirror displayed under Windows 98 with DX6.1 installed. | | | | | |
| 15 | х | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Severe Corruption in Tomb Raider 3 Game Application | | | | | |
| 16 | х | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Tunnel & Sphere D3D Applications Corrupted when Restoring S3 State | | | | | |
| 17 | х | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | 3D Mark Max99 Application Hangs | | | | | |
| 18 | х | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Alt-Tab Fails on Quake Engine Games | | | | | |
| 19 | | x | x | Fixed | Fixed | Fixed | Fixed | Fixed | Monster Truck Madness II Corruption (multi- colored diagonal patches) During Game Play in Direct3D mode. | | | | | |
| 20 | | х | х | Fixed | Fixed | Fixed | Fixed | Fixed | "Busy" Cursor remains on for 5-10 seconds after an OpenGL application starts | | | | | |

| ۲ | Windo | ws* 9 | 5 Win | ndows | * 98, a | nd Wi | ndows | * Me* | 3D Applications and Games |
|-----|-------|--------------|-------|-------|----------------|-------|-------|-------|---|
| NO. | PV2.0 | PV2.1 | PV2.5 | PV3.0 | PV3.2 | PV3.3 | PV4.1 | PV5.1 | Issue |
| 21 | | x | x | Fixed | Fixed | Fixed | Fixed | Fixed | Screen Corruption (blinking lines & color changing) occurs with Flight Simulator* 98 |
| 22 | | x | х | Fixed | Fixed | Fixed | Fixed | Fixed | Delayed display response to mouse movement while playing Unreal* or Half- Life* |
| 23 | x | х | x | х | Fixed | Fixed | Fixed | Fixed | GPF in Homeworld* during resource collection or when ships are a certain eye distance away. |
| 24 | х | х | x | х | Fixed | Fixed | Fixed | Fixed | In Gamepack 2000 - roulette, a garbage rectangle is seen around the ball. |
| 25 | х | х | х | х | х | х | Fixed | Fixed | Screen corruption in Rogue Squadron 3D* game |
| 26 | x | х | х | х | х | x | Fixed | Fixed | Screen flickering when a Direct Draw* hardware overlay is displayed. |
| 27 | x | х | x | x | х | x | Fixed | Fixed | Madden 2000* game has the wrong color field due to missing textures. |
| 28 | x | х | x | х | х | x | Fixed | Fixed | Corruption on left side of main menu screen in Driver game, Lunatik*, Grand Theft Auto 2* and Demolition Race* games |
| 29 | х | х | х | х | x | x | Fixed | Fixed | In Boarder Zone* game, short white horizontal lines appear during gameplay. |
| 30 | х | х | х | х | x | x | Fixed | Fixed | 3D Mark Max* 99 hangs during benchmark test. |
| 31 | х | х | х | х | x | x | Fixed | Fixed | 3D Winbench 2000* - many problems seen in tests. |
| 32 | х | х | х | х | х | x | Fixed | Fixed | 3D Winbench 98* - Colorkey quality transparency tests displays the sky texture in place of the color key textures that should be on the trees and the fence. |
| 33 | × | х | х | x | х | х | Fixed | Fixed | GLQuake* shows screen corruption when using Alt-Tab to switch out of the game and back in twice. |
| 34 | х | х | х | х | х | x | Fixed | Fixed | The Z-Buffer is not being enabled correctly in DirectX* 7 applications. |
| 35 | х | х | х | х | х | x | Fixed | Fixed | Prince of Persia* - the mouse pointer disappears on the main menu. |
| 36 | х | х | х | х | х | x | Fixed | Fixed | Missing textures in Direct3D* sample applications. |
| 37 | х | х | х | х | х | x | Fixed | Fixed | Unreal Tournament* - texture corruption in OpenGL* mode. |
| 38 | х | х | х | х | х | x | Fixed | Fixed | Blood 2* - main menu shows flickering |
| 39 | х | х | х | х | x | x | Fixed | Fixed | Dark Stone* game - main menu shows flickering |
| 40 | x | х | х | х | х | x | Fixed | Fixed | Drakan* game - main menu shows flickering |
| 41 | х | х | х | х | х | x | Fixed | Fixed | Motocross Madness* - main menu has text cut off |
| 42 | x | х | x | x | х | x | Fixed | Fixed | OpenGL* 3D screensavers do not work in Windows* 95C with the version of DirectX* that comes with the OS. |
| 43 | x | х | x | x | х | x | Fixed | Fixed | OpenGL* 3D screensavers show blank screen when a full-screen DOS box is activated. |
| 44 | х | х | х | х | х | х | Fixed | Fixed | Unreal Tournament* - on several deathmatch levels, the scene is corrupted and the background shows through in front of objects |

| 1 | Windo | ws* 9 | 5 Win | ndows | * 98, a | nd Wi | ndows [:] | * Me* | 3D Applications and Games |
|-----|-------|--------------|-------|-------|----------------|-------|--------------------|-------|--|
| NO. | PV2.0 | PV2.1 | PV2.5 | PV3.0 | PV3.2 | PV3.3 | PV4.1 | PV5.1 | Issue |
| 45 | х | х | х | х | х | х | Fixed | Fixed | S3TC* compressed textures in OpenGL* have incorrect subimage. |
| 46 | х | х | х | х | х | х | Fixed | Fixed | Forsaken* game hangs with DirectX* 5.0 runtimes. |
| 47 | х | х | х | х | х | x | Fixed | Fixed | 3D WinBench 98 Triangle Tests hang with DirectX 6.1 runtimes. |
| 48 | x | х | x | x | х | x | Fixed | Fixed | Lego* Island game - When the user clicks the mouse anywhere on the main menu, the game quits to the desktop. |
| 49 | х | х | х | x | х | х | Fixed | Fixed | Gamepack 2000* - In draw poker, the image is broken when clicking on some of the cards. |
| 50 | x | х | x | x | х | x | Fixed | Fixed | Gemini benchmarks - the OpenGL* part of the tests shows the top section of the screen, however the rest is all white when the desktop is in 16 bit color depth. |
| 51 | х | х | х | х | х | x | x | Fixed | 3DMark99 Max* with DirectX* 7 runtimes hangs during the benchmark with a black screen. |
| 52 | х | х | х | x | х | x | x | Fixed | Artifacts are seen in 3D Winbench* 2000 - quality tests. |
| 53 | х | х | х | x | х | x | х | Fixed | 3D Winbench 2000* - WinMark* scene 1 page faults. |
| 54 | х | х | х | х | х | x | x | Fixed | Deer Hunter 3D* game locks up or exits to the desktop when trying to go to the hunting area. |
| 55 | х | х | х | х | х | х | х | Fixed | Missing textures on 3D website. |
| 56 | х | х | х | х | х | х | x | Fixed | Sega* Rally* 2 game - the textures are not applied in 640x480 mode. |
| 57 | х | х | x | х | х | x | x | Fixed | Dark Stone* game - 3D black boxes appear around the trees. |
| 58 | х | х | х | х | х | х | x | Fixed | 3D Winbench* 2000 shows a performance degradation. |
| 59 | х | х | х | х | х | х | х | Fixed | 3DMark2000* demo scene flashes. |
| 60 | х | х | x | х | х | х | x | Fixed | Redline* game exits to the desktop when loading a mission. |
| 61 | х | х | х | х | х | х | x | Fixed | Final Fantasy* VIII game - Black boxes show up around text and the cursor. |
| 62 | х | х | x | x | х | x | х | Fixed | EPO CAD 98* - Objects are not re-drawn. |
| 63 | х | х | х | х | х | х | x | Fixed | NBA* Inside Drive 2000* game - The paint in the free throw lanes will either go black or will tear. |
| 64 | x | х | x | x | х | x | x | Fixed | Color corruption after Alt-Tab out and back in again with Direct3D* games and sample applications . |
| 65 | х | х | х | х | х | х | x | Fixed | Dark Omen* game - When starting the game, a window pops up saying "out of date display drivers", then the game exits. |
| 66 | х | х | х | х | х | x | x | Fixed | Winstone* 99 - High end test for Microstation* SE locks up. |

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| | , | Wind | ows*9 | 5, Wii | 1dows* | *98, an | d Win | dows* | * Me* 2D Applications |
|-----|-------|-------|-------|--------|--------|---------|-------|-------|--|
| NO. | PV2.0 | PV2.1 | PV2.5 | PV3.0 | PV3.2 | PV3.3 | PV4.1 | PV5.1 | Issue |
| 1 | x | х | х | Fixed | Fixed | Fixed | Fixed | Fixed | Flickering and flashing occur when both software DVD and TV-out are enabled in a multi-monitor configuration in the 720x480x8- bpp color mode. |
| 2 | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | The screen of the Compton's '97 Interactive Encyclopedia darkens when maximizing the Bears movie, at 8-bpp color depth. |
| 3 | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Screen corruption occurs when running the Freel97.prz sample file of Lotus* Freelance '97. |
| 4 | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Corruption occurs when running a slide show in PowerPoint* (Japanese version). |
| 5 | x | х | x | Fixed | Fixed | Fixed | Fixed | Fixed | Overlay ColorKey corruption (pink lines at the bottom of a windowed video) occurs on a flat panel when using software DVD. |
| 6 | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | AVIs play upside down (full screen) when switching from 640x480x16 bpp to 640x480x8 bpp, with both Intel Indeo® and Duck* TrueMotion* 2.0 codecs installed. |
| 7 | x | х | x | Fixed | Fixed | Fixed | Fixed | Fixed | Under Windows 95, AVI corruption occurs when launching the FoxBear* application and the MS-DOS* window in the full-screen mode using Alt-Enter. |
| 8 | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Under the Japanese version of Windows 95, playing a full-screen AVI causes a GPF. |
| 9 | х | х | х | Fixed | Fixed | Fixed | Fixed | Fixed | Under Windows 95 with TV-out enabled, the screen shifts to the left when the Fine Tuning applet is selected and adjusted. |
| 10 | x | х | x | Fixed | Fixed | Fixed | Fixed | Fixed | A pink stripe appears at the right edge of the overlay window, when switching the display from TV-out to CRT. |
| 11 | | х | NDR | NDR | NDR | NDR | NDR | NDR | When both CRT and flat-panel displays are connected, the system is unable to detect the CRT after boot-up (3.00.2019 VBIOS resolves this Issue). |
| 12 | x | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Software DVD Video Jitter when Downscaling |
| 13 | х | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Color Pattern Does not Match using Borland Delphi4.0 Application |
| 14 | х | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Red Line Appears on the Right of Software DVD Playback |
| 15 | х | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | System Hangs When MPEG Ends while Monitor is Sleep |
| 16 | х | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Lotus Approach '97 has Line Corruption |
| 17 | х | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Quick Time for Windows* version2.02 can not Play Movie File |
| 18 | х | х | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Software DVD Video Shakes in Multimonitor Configuration |
| 19 | х | х | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | MPEG Movie Black Screens |
| 20 | х | х | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Software DVD Green Line Screen Corruption |

| | | Wind | ows*9 | 5, Wir | 1dows* | [*] 98, an | d Win | dows* | ⁴ Me* 2D Applications |
|-----|-------|--------------|-------|--------|--------|---------------------|-------|-------|---|
| NO. | PV2.0 | PV2.1 | PV2.5 | PV3.0 | PV3.2 | PV3.3 | PV4.1 | PV5.1 | Issue |
| 21 | х | х | x | Fixed | Fixed | Fixed | Fixed | Fixed | GPF Occurs When Running "Home" Application and attempting to print a pie diagram |
| 22 | | х | х | Fixed | Fixed | Fixed | Fixed | Fixed | Fullscreen DOS Box at 640x480 black screens when using alt+Enter in a TV Configuration under Windows* 98 |
| 23 | х | x | х | Fixed | Fixed | Fixed | Fixed | Fixed | Characters overwritten in notepad (screen corruption) |
| 24 | х | х | x | Fixed | Fixed | Fixed | Fixed | Fixed | A second mouse cursor appears in a multimonitor configuration with the Intel® 810 as the primary |
| 25 | | х | х | Fixed | Fixed | Fixed | Fixed | Fixed | GPF occurs when changing display modes on some software DVD players |
| 26 | х | х | х | Fixed | Fixed | Fixed | Fixed | Fixed | Video corruption and lockups after playing an AVI file followed by a reboot. |
| 27 | х | х | х | Fixed | Fixed | Fixed | Fixed | Fixed | SYSTEST.EXE has line of white pixels above the progress indicator. |
| 28 | х | x | х | Fixed | Fixed | Fixed | Fixed | Fixed | Playing a certain Indeo* 5 AVI file with MPLAYER2.EXE results in video corruption. |
| 29 | х | х | х | х | Fixed | Fixed | Fixed | Fixed | Software DVD has shadows in the subpicture when bobbing. |
| 30 | х | х | x | x | Fixed | Fixed | Fixed | Fixed | Software DVD is corrupted with DVD player that comes with Microsoft Windows* 98 after downscaling the video window to zero and then up to below 2:1 downscale. |
| 31 | х | х | x | x | Fixed | Fixed | Fixed | Fixed | When Macrovision* protection is enabled, brightness does not stay the same in software DVD. |
| 32 | х | х | х | х | x | х | Fixed | Fixed | Screen flickering when a Direct Draw* hardware overlay is displayed. |
| 33 | х | х | х | х | х | х | Fixed | Fixed | The graphics driver causes a GPF (General Protection Fault) when loading. |
| 34 | х | х | x | x | х | x | Fixed | Fixed | Screen is not refreshed in a Direct Draw* application when the system is resumed from suspend mode. |
| 35 | х | х | х | х | x | х | Fixed | Fixed | Winbench 98 and 99 - Corruption is seen in the Direct Draw* tests. |
| 36 | х | х | x | x | x | x | Fixed | Fixed | Microsoft* Word 2000* and Microsoft* Excel* 2000 Toranomaki* - voice does not sync with animated screen. |
| 37 | х | х | х | х | x | х | Fixed | Fixed | RealPlayer* 7 shows garbage when playing a Media File. |
| 38 | х | х | х | х | х | х | Fixed | Fixed | Excel* 2000 - Garbage sometimes appears when the Excel client area is scrolled. |
| 39 | х | х | х | x | х | x | Fixed | Fixed | QuarkXPress* - A band of horizontal black dashes appears when opening or scrolling through a document. |
| 40 | х | x | х | х | х | x | x | Fixed | Roulette in Gamepack 2000* shows garbage around a ball. |
| 41 | х | х | х | х | х | х | х | Fixed | When playing a video file in Media Player*, then entering suspend mode, the system hangs. |
| 42 | х | x | х | х | х | х | х | Fixed | AVI files are corrupt during playback. |

| | Windows*95, Windows*98, and Windows* Me* 2D Applications | | | | | | | | | | | | | |
|-----|--|--------------|-------|-------|-------|-------|-------|--------------|---|--|--|--|--|--|
| NO. | PV2.0 | PV2.1 | PV2.5 | PV3.0 | PV3.2 | PV3.3 | PV4.1 | PV5.1 | Issue | | | | | |
| 43 | х | х | х | х | x | x | х | Fixed | When playing a DVD movie, green horizontal lines appear. | | | | | |
| 44 | х | х | х | х | x | x | х | Fixed | Age of Empires* 2: The Age of Kings* - Dotted lines appear in the fog. | | | | | |
| 45 | х | х | х | х | x | x | x | Fixed | Internet Explorer* shows character corruption when scrolling a web page if a software cursor is used, such as 3D mouse pointers or large mouse pointers. | | | | | |
| 46 | x | x | x | x | х | x | x | Fixed | Skipping and jittering seen in DVD movies. | | | | | |
| 47 | х | х | х | х | х | x | х | Fixed | QuickTime* 4.1 movies turn green or show corruption when dragged across the screen. | | | | | |

| | Win | dows | *95, V | Vindov | ws*98, | and V | Vindov | vs* M | e* Display Modes/Settings |
|-----|-------|--------------|--------|--------|--------|-------|--------|-------|--|
| NO. | PV2.0 | PV2.1 | PV2.5 | PV3.0 | PV3.2 | PV3.3 | PV4.1 | PV5.1 | Issue |
| 1 | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Watermark corruption at 1280x1024x24 bpp, at 75-Hz display setting |
| 2 | x | х | x | Fixed | Fixed | Fixed | Fixed | Fixed | Watermark at 720x480x16 bpp, in a multi- monitor configuration with TV-out and the Intel® 810 and Intel® 810E chipsets as the primary display adapter |
| 3 | х | х | х | Fixed | Fixed | Fixed | Fixed | Fixed | Positioning fails when running in PAL mode, in the TV-out configuration. |
| 4 | х | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Hsync and Vsync Polarities out of Vesa Specifications |
| 5 | х | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Full Screen DOS Box Centered with Flat Panel Connected |
| 6 | x | х | x | Fixed | Fixed | Fixed | Fixed | Fixed | Video Corruption Visible on Some Monitors |
| 7 | x | х | x | Fixed | Fixed | Fixed | Fixed | Fixed | 720x480 Mode Disappears from Slider |
| 8 | х | х | x | Fixed | Fixed | Fixed | Fixed | Fixed | Flat Panel DOS Screen does not Scale |
| 9 | х | х | х | Fixed | Fixed | Fixed | Fixed | Fixed | Flat Panels are not Enabled when Power is Off |
| 10 | | х | х | Fixed | Fixed | Fixed | Fixed | Fixed | System enters sleep without warning or informing the user that they are still logged on to the network |
| 11 | х | х | x | Fixed | Fixed | Fixed | Fixed | Fixed | Memory leak after each resume from suspend mode. |
| 12 | х | x | х | Fixed | Fixed | Fixed | Fixed | Fixed | System boots into NTSC TV Out mode even if the PAL jumper setting is set on the Chrontel* 7007 daughtercard. |
| 13 | х | x | x | х | Fixed | Fixed | Fixed | Fixed | TV out display does not wake up after monitor blanks out from a power saving time-out. |
| 14 | x | х | x | х | Fixed | Fixed | Fixed | Fixed | In Microsoft Windows* 98 SE, selecting then deselecting the monitor while in NTSC mode causes the TV out display to switch to PAL mode. |

| | Win | ndows | *95, V | Vindov | ws*98, | and V | Vindov | vs* M | e* Display Modes/Settings |
|-----|-------|--------------|--------|--------|--------|-------|--------|-------|---|
| NO. | PV2.0 | PV2.1 | PV2.5 | PV3.0 | PV3.2 | PV3.3 | PV4.1 | PV5.1 | Issue |
| 15 | x | x | x | x | Fixed | Fixed | Fixed | Fixed | Screen corruption appears when returning from hibernation when the Intel® 810 chipset is used as the secondary display in a multimonitor configuration and is set to 8 bpp color depth. |
| 16 | х | х | х | х | Fixed | Fixed | Fixed | Fixed | When using a multi-resolution flat panel set at 640x480 resolution, exiting to MS-DOS* Mode will result in a blank display. |
| 17 | x | x | x | x | Fixed | Fixed | Fixed | Fixed | When connecting a TV after boot, an invalid signal appears on the TV. There should be no signal and the encoder chip should be in the off or no DAC state. |
| 18 | x | x | x | x | Fixed | Fixed | Fixed | Fixed | Suspend using power button in Microsoft Windows* 95 while monitor is in stand-by mode causes buttons on some windows to be corrupted after resuming. |
| 19 | х | х | х | х | Fixed | Fixed | Fixed | Fixed | The flatpanel display will not scale to the full size of the screen after restarting in MS- DOS* mode or switching to 16 color mode. |
| 20 | х | х | х | х | х | х | Fixed | Fixed | Gamma range incorrect for overlay color controls |
| 21 | х | х | х | х | х | x | Fixed | Fixed | In the properties page for TV-out and flat panel devices, the TV and flat panel can't be disabled or enabled. |
| 22 | х | х | х | х | х | x | Fixed | Fixed | Switching TV-out setting from overscan to underscan (large picture to small picture) mode shifts the desktop down and to the left. |
| 23 | х | х | х | х | х | x | Fixed | Fixed | In the properties page for TV-out devices, the TV checkbox gets unchecked after monitor enters power saving mode. |
| 24 | х | х | х | х | x | х | Fixed | Fixed | Blank screen on TV when PAL mode or NTSC J is selected. |
| 25 | х | х | х | х | х | х | Fixed | Fixed | PAL-G TV-out mode is not listed in the PAL drop-down menu. |
| 26 | х | х | х | х | х | х | Fixed | Fixed | The system does not resume correctly from S3 (Suspend to RAM) suspend when multi- monitor is enabled. |
| 27 | х | х | х | х | х | х | Fixed | Fixed | With any PCI graphic card installed, the system will not resume from standby (ACPI S1). |
| 28 | х | х | х | х | x | х | Fixed | Fixed | In 1280x1024 24bpp mode, after several wake-ups from standby (ACPI S1), a normal screen doesn't show. |
| 29 | x | x | x | x | х | x | Fixed | Fixed | After physically switching from a TV-out display to a standard monitor, the monitor doesn't display a picture, but the TV-out signal is still active. |
| 30 | х | х | х | х | х | x | Fixed | Fixed | A flat panel display connected to the onboard graphics does not function when a PCI graphics card is used as the primary display. |
| 31 | x | x | x | x | x | x | Fixed | Fixed | In Windows* 95 OSR 2.1, while the monitor is in power off mode, suspending the system using the power button and resuming using the keyboard or mouse causes the system to hang up. |

| | Win | dows | *95 <u>,</u> V | Vindo | ws*98, | and V | Vindov | vs* M | e* Display Modes/Settings |
|-----|-------|--------------|----------------|-------|--------|-------|--------|-------|--|
| NO. | PV2.0 | PV2.1 | PV2.5 | PV3.0 | PV3.2 | PV3.3 | PV4.1 | PV5.1 | Issue |
| 32 | x | x | х | x | х | x | Fixed | Fixed | Can't shutdown the machine on multi monitor environment. The system stops at the "Windows is shutting down" screen instead of powering off. |
| 33 | х | х | х | х | х | х | Fixed | Fixed | Blinking screen when disk or mouse activity occurs if a flat panel is connected with a Sil154Tx chip. |
| 34 | х | х | х | х | х | х | х | Fixed | Black screen when switching from a CRT monitor to TV-out |
| 35 | х | х | х | х | х | х | х | Fixed | Flat Panel will not scale after a reboot to MS- DOS* mode or a switch to 16 colors |
| 36 | х | х | х | х | х | х | х | Fixed | After resuming from suspend, the buttons on all windows are broken. |
| 37 | х | х | х | х | х | х | х | Fixed | When multi-monitor is enabled, S3 suspend to RAM does not resume correctly. |
| 38 | х | х | х | х | х | х | х | Fixed | Driver does not load on Windows* 95 retail or OSR 1 versions. |
| 39 | х | х | х | х | х | х | х | Fixed | Low resolution video modes below 640x480 show screen corruption. |
| 40 | х | х | х | х | х | х | x | Fixed | The system locks while changing icon sizes. |
| 41 | x | х | х | х | х | х | х | Fixed | Hardware cursors (mouse pointers) smaller than 32x32 are corrupted. Those greater than 32x32 cause the system to hang. |

Resolved Driver Issues (Windows* NT 4.0 Release)

| | | | W | indow | s* NT | 4.0 3 D | Appli | cation | s and Games |
|-----|-------|--------------|-------|-------|-------|----------------|-------|--------|---|
| NO. | PV2.0 | PV2.1 | PV2.5 | PV3.0 | PV3.2 | PV3.3 | PV4.1 | PV5.1 | Issue |
| 1 | х | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | Helicops* game application stops responding during game play, when the user crashes or completes a game level. |
| 2 | x | x | x | Fixed | Fixed | Fixed | Fixed | Fixed | When the desktop resolution is set to 1024x768 and the GLQuake* game application is set to 640x480, the desktop resolution configures at 1024x768 after exiting GLQuake*. |
| 3 | х | х | х | Fixed | Fixed | Fixed | Fixed | Fixed | 3D Screensavers do not Work at 65K Color Depth |
| 4 | х | х | x | х | Fixed | Fixed | Fixed | Fixed | In Microsoft* Golf 98, the grid and red/white pole are not shown. |
| 5 | х | х | х | х | x | х | Fixed | Fixed | Indy 3D* demo doesn't run. Only the background color is displayed in the window. |
| 6 | x | x | х | х | х | х | х | Fixed | 3D Maze OpenGL* screen saver causes an application error when the Display Properties window is left open. |
| 7 | х | х | х | х | х | х | х | Fixed | Quake* 2 game runs very slowly after doing an Alt+Tab out and back in. |

| | Windows* NT 4.0 3D Applications and Games | | | | | | | | | | | |
|-----|---|--------------|-------|-------|-------|-------|-------|--------------|---|--|--|--|
| NO. | PV2.0 | PV2.1 | PV2.5 | PV3.0 | PV3.2 | PV3.3 | PV4.1 | PV5.1 | Issue | | | |
| 8 | х | х | х | х | х | x | x | Fixed | GLQuake* - Alt+Tab out of the game and back in causes corruption, spontaneous reboots, or slowness in the game. | | | |
| 9 | х | х | х | х | x | х | х | Fixed | Winstone* 99 - High end test for Microstation* SE locks up. | | | |

| | | | | W | indows | * NT 4 | 4.0 2D | Appli | cations |
|-----|-------|--------------|-------|-------|--------|--------|--------|-------|--|
| NO. | PV2.0 | PV2.1 | PV2.5 | PV3.0 | PV3.2 | PV3.3 | PV4.1 | PV5.1 | Issue |
| 1 | х | х | х | Fixed | Fixed | Fixed | Fixed | Fixed | Full-screen Windows DOS box disappears with TV-out enabled. |
| 2 | x | х | Fixed | Fixed | Fixed | Fixed | Fixed | Fixed | NetMeeting Application has Corrupt Cursor |
| 3 | | х | NDR | NDR | NDR | NDR | NDR | NDR | When dragging Display Properties page over Oasys* v7 application window, the image is corrupted. |
| 4 | х | х | х | Fixed | Fixed | Fixed | Fixed | Fixed | Playing a certain Indeo* 5 AVI file with MPLAYER2.EXE results in video corruption. |
| 5 | х | х | х | Fixed | Fixed | Fixed | Fixed | Fixed | Blue Screen when running Midas View Point* for 48-96 hours. |
| 6 | | х | NDR | NDR | NDR | NDR | NDR | NDR | Garbage on the blue bootup screen after first reboot following installation of the OS. |
| 7 | х | х | х | х | Fixed | Fixed | Fixed | Fixed | When Macrovision* protection is enabled, brightness does not stay the same in software DVD movies. |
| 8 | х | х | х | х | х | х | Fixed | Fixed | Screen garbage in Lotus* Freelance* 2000 screen show |

| | | | | Windo | ows* N | T 4.0 | Display | y Mod | es/Settings |
|-----|-------|--------------|-------|-------|--------|-------|---------|-------|---|
| NO. | PV2.0 | PV2.1 | PV2.5 | PV3.0 | PV3.2 | PV3.3 | PV4.1 | PV5.1 | Issue |
| 1 | х | х | х | х | х | х | Fixed | Fixed | Blue screen corruption on reboot when TV-out is set for PAL or NTSC_J mode |
| 2 | х | х | х | x | x | x | Fixed | Fixed | When both a monitor and a TV are connected and the monitor has been de-selected, after a reboot, Windows* should boot on the TV only, however it boots up on both. |
| 3 | х | х | х | х | x | х | х | Fixed | Driver properties incorrectly shows the Intel® 815 chipset as being an Intel® 810 chipset. |
| 4 | х | х | х | х | x | х | х | Fixed | Hardware cursors (mouse pointers) smaller than 32x32 are corrupted. Those greater than 32x32 cause the system to hang. |

| | | | | V | Vindow | vs* 200 | 00 2D | Applic | ations |
|-----|-------|--------------|-------|-------|--------|---------|-------|--------|---|
| NO. | PV2.0 | PV2.1 | PV2.5 | PV3.0 | PV3.2 | PV3.3 | PV4.1 | PV5.1 | Issue |
| 1 | х | х | х | х | х | x | Fixed | Fixed | Overlay not working with third party video capture drivers |
| 2 | x | x | x | x | х | x | Fixed | Fixed | Third party video capture drivers will not load. |
| 3 | х | х | х | х | x | x | Fixed | Fixed | Winbench 98 and 99 - Corruption is seen in the Direct Draw* tests. |
| 4 | х | х | х | х | х | x | Fixed | Fixed | OASYS* viewer - document is not scrolled up correctly. |
| 5 | х | х | х | х | х | х | Fixed | Fixed | Ichitaro* - Horizontal garbage lines appear when running a slide in the autoplay mode. |
| 6 | х | х | х | х | x | x | Fixed | Fixed | Excel* 97 - screen corruption when zooming in to 400% and then opening and closing the clip gallery. |
| 7 | х | х | х | х | х | х | Fixed | Fixed | Text in Notepad is corrupted when its client area is scrolled. |
| 8 | х | х | х | х | х | х | Fixed | Fixed | Lotus Word Pro* - Screen corruption occurs when a figure object is duplicated to another place. |
| 9 | х | х | х | х | x | х | х | Fixed | DVD* movies hang after playing for a couple of minutes |
| 10 | х | х | х | х | x | x | x | Fixed | With a software DVD player that uses HVA, menus show corruption on some DVD discs |
| 11 | х | х | х | х | х | х | х | Fixed | Skipping and jittering seen in DVD movies. |

Resolved Driver Issues (Windows* 2000 Release)

| | | | V | Vindov | vs* 200 |)0 3D . | Applic | ations | and Games |
|-----|-------|--------------|-------|--------|---------|---------|--------|--------|--|
| NO. | PV2.0 | PV2.1 | PV2.5 | PV3.0 | PV3.2 | PV3.3 | PV4.1 | PV5.1 | Issue |
| 1 | х | х | х | х | х | х | Fixed | Fixed | Final Reality* application has visual anomalies/missing textures. |
| 2 | x | x | x | x | х | x | Fixed | Fixed | Mipmap corruption problems |
| 3 | х | х | х | х | x | x | Fixed | Fixed | Madden 2000* game has the wrong color field due to missing textures. |
| 4 | х | х | х | х | х | х | Fixed | Fixed | Corruption on left side of main menu screen in Driver game, Lunatik*, Grand Theft Auto 2* and Demolition Race* games |
| 5 | х | х | х | х | x | x | Fixed | Fixed | In Boarder Zone* game, short white horizontal lines appear during gameplay. |
| 6 | x | х | х | x | х | x | Fixed | Fixed | 3D Winbench 2000* - many problems seen during tests. |
| 7 | х | х | х | х | х | x | Fixed | Fixed | Homeworld* game - screen becomes blank after Alt-Tab out and then back in. |
| 8 | х | х | х | х | x | х | Fixed | Fixed | Descent: Freespace* game has missing text on the logon screen. |

| | | | W | Vindov | ws* 200 |)0 3D . | Applic | ations | and Games |
|-----|-------|--------------|-------|--------|---------|---------|--------|--------|---|
| NO. | PV2.0 | PV2.1 | PV2.5 | PV3.0 | PV3.2 | PV3.3 | PV4.1 | PV5.1 | Issue |
| 9 | х | х | х | х | x | x | Fixed | Fixed | Prince of Persia* - the mouse pointer disappears on the main menu. |
| 10 | x | x | x | х | х | x | Fixed | Fixed | Blood 2* game - black screen on main menu. |
| 11 | х | х | х | х | x | x | Fixed | Fixed | Dark Stone* game - main menu has missing text |
| 12 | x | x | x | x | х | х | Fixed | Fixed | Drakan* game - main menu shows flickering |
| 13 | х | х | х | х | х | x | Fixed | Fixed | Motocross Madness* - main menu has text cut off |
| 14 | х | х | x | х | x | x | Fixed | Fixed | System reboots itself when resizing the display window of DirectX* 7 Direct3D* sample applications |
| 15 | х | х | x | x | х | x | Fixed | Fixed | Star Wars: Episode 1 Racer* - main menu flickers and a page fault error occurs when playing the game |
| 16 | х | х | х | х | x | х | х | Fixed | Trophy Bass 3D* hard hangs with severe corruption when starting a game. |
| 17 | x | x | x | x | х | x | x | Fixed | 3D Winbench 2000* - quailty tests fail. |
| 18 | x | x | x | x | х | x | x | Fixed | Blood 2* - main menu shows flickering |
| 19 | х | х | х | x | х | х | х | Fixed | GLQuake* - Alt+Tab out of the game and back in causes corruption, spontaneous reboots, or slowness in the game. |
| 20 | х | х | х | x | х | х | x | Fixed | NBA* Inside Drive 2000* game - The paint in the free throw lanes will either go black or will tear. |
| 21 | х | х | х | x | х | x | х | Fixed | Color corruption after Alt-Tab out and back in again with Direct3D* games and sample applications . |
| 22 | х | х | х | x | х | х | x | Fixed | Dark Omen* game - When starting the game, a window pops up saying "out of date display drivers", then the game exits. |
| 23 | х | х | х | х | х | x | х | Fixed | Motocross Madness* game shows texture junction gaps. |

| | | | | Wind | lows* 2 | 2000 D | isplay | Mode | es/Settings |
|-----|-------|--------------|-------|-------|---------|--------|--------|-------|---|
| NO. | PV2.0 | PV2.1 | PV2.5 | PV3.0 | PV3.2 | PV3.3 | PV4.1 | PV5.1 | Issue |
| 1 | х | х | х | х | x | x | Fixed | Fixed | When both a monitor and a TV are connected and the monitor has been de-selected, after a reboot, Windows* should boot on the TV only, however it boots up on both. |
| 2 | х | х | х | х | х | х | Fixed | Fixed | Flat panel scaling doesn't work after a resume from standby (S1) or suspend (S3). |
| 3 | х | x | х | х | х | х | Fixed | Fixed | A flat panel display connected to the onboard graphics does not function when a PCI graphics card is used as the primary display. |
| 4 | х | х | х | х | x | х | х | Fixed | TV-out refuses to wake up after timing out from power saving mode. |

| | | | | Wind | lows* 2 | 2000 D | isplay | Mode | es/Settings |
|-----|-------|--------------|-------|-------|---------|--------|--------|--------------|---|
| NO. | PV2.0 | PV2.1 | PV2.5 | PV3.0 | PV3.2 | PV3.3 | PV4.1 | PV5.1 | Issue |
| 5 | x | x | x | x | x | x | х | Fixed | Nothing is displayed on the DFP/DVI (using onboard AGP) under a multi-monitor environment when the PCI video card is specified as the primary device in the BIOS setup. |
| 6 | х | х | х | х | x | х | x | Fixed | The screen content is scrambled when a crash dump is initiated. |
| 7 | х | х | х | х | х | х | x | Fixed | Hardware cursors (mouse pointers) smaller than 32x32 are corrupted. Those greater than 32x32 cause the system to hang. |

Resolved VBIOS Issues (Video BIOS Release)

| | Video BIOS Issues | | | | | | | | | |
|----------|--|-------------|-------------|------------|-------------|-----------------|--|--|--|--|
| NO. | NO. VB024 VB1.11 VB2.01 VB2.11 VB2.50 VB3.00. VB3.1 Issue 2019 | | | | | | | | | |
| VBIOS | VBIOS issues have been moved to a separate release notes document at the following location: | | | | | | | | | |
| http://d | developer. | intel.com/c | lesign/soft | ware/drive | rs/platform | <u>/810.htm</u> | | | | |

Additional Driver Changes

| No. | Ver. | Additional Driver Change |
|-----|-------|--|
| 1 | PV1.1 | Ability to uninstall the end-user diagnostics utility |
| 2 | PV1.1 | Removed resolution modes (1280x720, 1280x960, 1600x900) from Win 9X slider. |
| 3 | PV2.1 | Support for Scaling Flat Panels in Windows |
| 4 | PV2.1 | Limited DOS Scaling Support |
| 5 | PV2.1 | Software Monitor Controls for Win9x |
| 6 | PV2.1 | I2C on DDC Bus Interface |
| 7 | PV2.1 | Added Multi-res Flat Panel Support |
| 8 | PV3.3 | Added Windows* 2000 driver |
| 9 | PV4.1 | Software DVD* HWMC (Hardware Motion Compensation) support via Microsoft* HVA (Hardware Video Acceleration) interface for Windows* 2000 |
| 10 | PV4.1 | DirectX* 7 support for Windows* 98, and Windows* 95, and Windows* 2000 |
| 11 | PV4.1 | PAL-G TV-out mode added. |
| 12 | PV5.1 | Added 1280x768 @ 60 Hz mode for flat panels |
| 13 | PV5.1 | Added 1280x1024 @ 60 mode for flat panels |
| 14 | PV5.1 | Removed two screen resolutions - 720x480 and 720x480 |

Driver Utility Changes

| No. | Ver. | Driver Utility Change |
|-----|-------|---|
| 1 | PV2.0 | The End-User Diagnostics Utility has been updated from Version 1.18 to Version 1.2.0 within the PV2.0 (version 1272) driver. Previously, the 1.18 version of the EUD within the PV1.1 driver did not function under Windows NT 4.0. |
| 2 | PV5.1 | An updated driver interface has been added with quick links to Intel® Web Sites and Online Support |
| 3 | PV5.1 | A "schemes" feature has been added to save and later recall graphics settings and to launch games and applications. |
| 4 | PV5.1 | A desktop context menu has been added that allows a quick change of graphics settings or a recall of a saved scheme. |
| 5 | PV5.1 | The integrated diagnostic tool allows viewing of all video modes supported by the display adapter. |

Documentation Changes

| NO. | Ver. | Documentation Change |
|-----|-------|---|
| 1 | PV3.0 | A Driver Utilities Change section has been added to this document. |
| 2 | PV3.2 | Issues that are not resolved by current drivers have been removed from the document. As a result, the numbering of the issues in most of the summary tables has shifted from previous versions. |
| 3 | PV3.2 | The Future Plans column has been removed from the summary tables. |
| 4 | PV3.3 | Sections for Windows* 2000 issues have been added. |
| 5 | PV4.1 | Removed all issues that were resolved prior to PV 2.0. |
| 6 | PV4.1 | Moved VBIOS resolved issues to a separate document and added a link to new location in the VBIOS section. |
| 7 | PV5.1 | Added Intel® 815 chipset family as a supported chipset. |
| 8 | PV5.1 | Added Windows* Millenium Edition* as a supported operating system. |