

Graphics Feature Status

- Canvas: **Hardware accelerated**
- 3D CSS: **Hardware accelerated**
- Compositing: **Hardware accelerated on all pages and threaded**
- CSS Animation: **Accelerated and threaded**
- Flash 3D: **Hardware accelerated**
- Flash Stage3D: **Hardware accelerated**
- Flash Stage3D Baseline profile: **Hardware accelerated**
- WebGL multisampling: **Hardware accelerated**
- Texture Sharing: **Unavailable. Hardware acceleration unavailable**
- Video: **Hardware accelerated**
- Video Decode: **Hardware accelerated**
- Video Encode: **Hardware accelerated**
- WebGL: **Hardware accelerated**

Problems Detected

- Texture sharing should be disabled on all Windows machines: [304369](#), [315215](#)

Driver Bug Workarounds

- clear_alpha_in_readpixels
- clear_uniforms_before_first_program_use
- disable_d3d11
- exit_on_context_lost
- set_texture_filter_before_generating_mipmap
- texsubimage2d_faster_than_teximage2d

Version Information

Data exported	2/25/2014 2:10:47 PM
Chrome version	Chrome/33.0.1750.117
Operating system	Windows NT 6.1 SP1
Software rendering list version	6.20
Driver bug list version	3.10
ANGLE revision	2451
2D graphics backend	Skia
Command Line Args	Files (x86)\Google\Chrome\Application\chrome.exe" --flag-switches-begin --flag-switches-end

Performance Information

Graphics	6.7
Gaming	6.7
Overall	5.9

Driver Information

Initialization time	18
Sandboxed	false
GPU0	VENDOR = 0x8086, DEVICE= 0x0412
Optimus	false
AMD switchable	false
Driver vendor	Intel Corporation
Driver version	9.18.10.3220
Driver date	6-24-2013
Pixel shader version	3.0
Vertex shader version	3.0
Machine model	
GL version	2.0
GL_VENDOR	Google Inc.
GL_RENDERER	ANGLE (Intel(R) HD Graphics 4600 Direct3D9Ex vs_3_0 ps_3_0)
GL_VERSION	OpenGL ES 2.0 (ANGLE 1.2.0.2451)
	GL_OES_element_index_uint GL_OES_packed_depth_stencil GL_OES_get_program_binary GL_OES_rgb8_rgba8 GL_OES_standard_derivatives GL_OES_texture_half_float GL_OES_texture_half_float_linear GL_OES_texture_float

GL_EXTENSIONS	GL_OES_texture_float_linear GL_OES_texture_npot GL_EXT_occlusion_query_boolean GL_EXT_read_format_bgra GL_EXT_robustness GL_EXT_texture_compression_dxt1 GL_EXT_texture_filter_anisotropic GL_EXT_texture_format_BGRA8888 GL_EXT_texture_storage GL_EXT_frag_depth GL_ANGLE_depth_texture GL_ANGLE_framebuffer_blit GL_ANGLE_framebuffer_multisample GL_ANGLE_instanced_arrays GL_ANGLE_pack_reverse_row_order GL_ANGLE_texture_compression_dxt3 GL_ANGLE_texture_compression_dxt5 GL_ANGLE_texture_usage GL_ANGLE_translated_shader_source GL_NV_fence
Window system binding vendor	Google Inc. (adapter LUID: 000000000000cf0c)
Window system binding version	1.4 (ANGLE 1.2.0.2451)
Window system binding extensions	EGL_EXT_create_context_robustness EGL_ANGLE_d3d_share_handle_client_buffer EGL_ANGLE_query_surface_pointer EGL_ANGLE_surface_d3d_texture_2d_share_handle EGL_NV_post_sub_buffer
Reset notification strategy	0x8252

Diagnostics

0	
b3DAccelerationEnabled	true
b3DAccelerationExists	true
bAGPEnabled	true
bAGPExistenceValid	true
bAGPExists	true
bCanRenderWindow	true
bDDAccelerationEnabled	true
bDriverBeta	false
bDriverDebug	false
bDriverSigned	false
bDriverSignedValid	false
bNoHardware	false
dwBpp	32
dwDDIVersion	11
dwHeight	1080
dwRefreshRate	60
dwWHQLLevel	0
dwWidth	1920
iAdapter	1
IDriverSize	8665088
IMiniVddSize	0
szAGPStatusEnglish	Enabled
szAGPStatusLocalized	Enabled
szChipType	Intel(R) HD Graphics Family
szD3DStatusEnglish	Enabled
szD3DStatusLocalized	Enabled
szDACType	Internal
szDDIVersionEnglish	11
szDDIVersionLocalized	11
szDDStatusEnglish	Enabled
szDDStatusLocalized	Enabled
szDXVAHDEngish	Supported
szDXVAModes	ModeMPEG2_A ModeMPEG2_C ModeWMV9_C ModeVC1_C
szDescription	Intel(R) HD Graphics 4600
szDeviceId	0x0412
szDeviceIdentifier	{D7B78E66-4752-11CF-0C7F-AD25BBC2C435}
szDeviceName	\\.\DISPLAY1
szDisplayMemoryEnglish	1696 MB
szDisplayMemoryLocalized	1696 MB

szDisplayModeEnglish	1920 x 1080 (32 bit) (60Hz)
szDisplayModeLocalized	1920 x 1080 (32 bit) (60Hz)
szDriverAssemblyVersion	9.18.10.3220
szDriverAttributes	Final Retail
szDriverDateEnglish	6/24/2013 12:53:30
szDriverDateLocalized	6/24/2013 12:53:30 PM
szDriverLanguageEnglish	English
szDriverLanguageLocalized	English
szDriverModelEnglish	WDDM 1.1
szDriverModelLocalized	WDDM 1.1
szDriverName	igdumdim64.dll,igd10iumd64.dll,igd10iumd64.dll,igdumdim32,igd10iumd32,igd10iumd32
szDriverNodeStrongName	oem138.inf:IntelGfx.NTamd64.6.1:iHSWD_w7:9.18.10.3220:pci\ven_8086&dev_0412&subsys_05a71028
szDriverSignDate	
szDriverVersion	9.18.0010.3220
szKeyDeviceID	Enum\PC\IVEN_8086&DEV_0412&SUBSYS_05A71028&REV_06
szKeyDeviceKey	\Registry\Machine\System\CurrentControlSet\Control\Video\{9B6E646E-6672-41B1-8A67-BBA5B5001422}\0000
szManufacturer	Intel Corporation
szMiniVdd	n/a
szMiniVddDateEnglish	n/a
szMiniVddDateLocalized	n/a
szMonitorMaxRes	
szMonitorName	Generic PnP Monitor
szNotesEnglish	No problems found.
szNotesLocalized	No problems found.
szOverlayEnglish	Supported
szRankOfInstalledDriver	00E00001
szRegHelpText	
szRevision	
szRevisionId	0x0006
szSubSysId	0x05A71028
szTestResultD3D7English	Not run
szTestResultD3D7Localized	Not run
szTestResultD3D8English	Not run
szTestResultD3D8Localized	Not run
szTestResultD3D9English	Not run
szTestResultD3D9Localized	Not run
szTestResultDDEnglish	Not run
szTestResultDDLLocalized	Not run
szVdd	n/a
szVendorId	0x8086

1	
b3DAccelerationEnabled	true
b3DAccelerationExists	true
bAGPEnabled	true
bAGPExistenceValid	true
bAGPExists	true
bCanRenderWindow	true
bDDAccelerationEnabled	true
bDriverBeta	false
bDriverDebug	false
bDriverSigned	false
bDriverSignedValid	false
bNoHardware	false
dwBpp	32

dwDDIVersion	11
dwHeight	1080
dwRefreshRate	60
dwWHQLLevel	0
dwWidth	1920
iAdapter	0
IDriverSize	8665088
IMiniVddSize	0
szAGPStatusEnglish	Enabled
szAGPStatusLocalized	Enabled
szChipType	Intel(R) HD Graphics Family
szD3DStatusEnglish	Enabled
szD3DStatusLocalized	Enabled
szDACType	Internal
szDDIVersionEnglish	11
szDDIVersionLocalized	11
szDDStatusEnglish	Enabled
szDDStatusLocalized	Enabled
szDXVAHDEngish	Supported
szDXVAModes	ModeMPEG2_A ModeMPEG2_C ModeWMV9_C ModeVC1_C
szDescription	Intel(R) HD Graphics 4600
szDeviceId	0x0412
szDeviceIdentifier	{D7B78E66-4752-11CF-0C7F-AD25BBC2C435}
szDeviceName	\\.\DISPLAY2
szDisplayMemoryEnglish	1696 MB
szDisplayMemoryLocalized	1696 MB
szDisplayModeEnglish	1920 x 1080 (32 bit) (60Hz)
szDisplayModeLocalized	1920 x 1080 (32 bit) (60Hz)
szDriverAssemblyVersion	9.18.10.3220
szDriverAttributes	Final Retail
szDriverDateEnglish	6/24/2013 12:53:30
szDriverDateLocalized	6/24/2013 12:53:30 PM
szDriverLanguageEnglish	English
szDriverLanguageLocalized	English
szDriverModelEnglish	WDDM 1.1
szDriverModelLocalized	WDDM 1.1
szDriverName	igdumdim64.dll,igd10iumd64.dll,igd10iumd64.dll,igdumdim32,igd10iumd32,igd10iumd32
szDriverNodeStrongName	oem138.inf:IntelGfx.NTamd64.6.1:iHswd_w7:9.18.10.3220:pci\ven_8086&dev_0412&subsys_05a71028
szDriverSignDate	
szDriverVersion	9.18.0010.3220
szKeyDeviceID	Enum\PCI\VEN_8086&DEV_0412&SUBSYS_05A71028&REV_06
szKeyDeviceKey	\Registry\Machine\System\CurrentControlSet\Control\Video\{9B6E646E-6672-41B1-8A67-BBA5B5001422}\0001
szManufacturer	Intel Corporation
szMiniVdd	n/a
szMiniVddDateEnglish	n/a
szMiniVddDateLocalized	n/a
szMonitorMaxRes	
szMonitorName	Generic PnP Monitor
szNotesEnglish	No problems found.
szNotesLocalized	No problems found.
szOverlayEnglish	Supported
szRankOfInstalledDriver	00E00001
szRegHelpText	
szRevision	
szRevisionId	0x0006

szSubSysId	0x05A71028
szTestResultD3D7English	Not run
szTestResultD3D7Localized	Not run
szTestResultD3D8English	Not run
szTestResultD3D8Localized	Not run
szTestResultD3D9English	Not run
szTestResultD3D9Localized	Not run
szTestResultDDEngish	Not run
szTestResultDDLlocalized	Not run
szVdd	n/a
szVendorId	0x8086

Log Messages

- GpuProcessHostUIShim: The GPU process exited normally. Everything is okay.