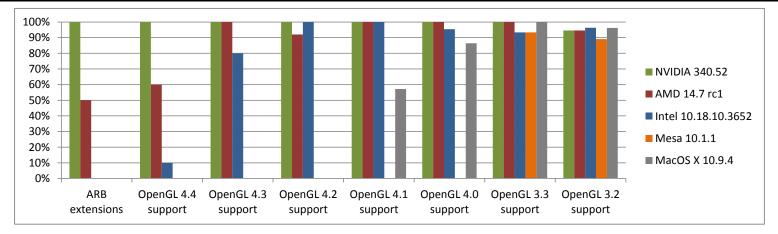
## **OpenGL drivers status**

Bug reports with reprodution cases

## July 2014, G-Truc Creation

Vendor	NVIDIA	AMD	Intel Windows	Intel Linux	Apple
Release date	29/07/2014	09/07/2014	24/06/2014	24/06/2014	30/06/2014
Drivers version	340.52	14.7 rc1	10.18.10.3652 beta	Mesa 10.2.2	MacOS X 10.9.4
Samples versions	4.4.2.1	4.4.2.1	4.4.2.1	4.4.2.1	4.4.2.1

Summary	NVIDIA 340.52	AMD 14.7 rc1	Intel 10.18.10.3652	Mesa 10.1.5	MacOS X 10.9.4
ARB extensions	100%	50%	0%	0%	0%
OpenGL 4.4 support	100%	60%	10%	0%	0%
OpenGL 4.3 support	100%	100%	80%	0%	0%
OpenGL 4.2 support	100%	92%	100%	0%	0%
OpenGL 4.1 support	100%	100%	100%	0%	57%
OpenGL 4.0 support	100%	100%	95%	0%	86%
OpenGL 3.3 support	100%	100%	93%	93%	100%
OpenGL 3.2 support	95%	95%	96%	89%	96%



ARB extensions	NVIDIA	AMD	Intel Windows	Intel Linux	Apple
glsl-vote-arb	Pass	Fail	Unsupported	Unsupported	Unsupported
multi-draw-indirect-count-arb	Pass	Unsupported	Unsupported	Unsupported	Unsupported
multi-draw-indirect-id-arb	Pass	Fail	Unsupported	Unsupported	Unsupported
texture-bindless-arb	Pass	Pass	Unsupported	Unsupported	Unsupported
texture-cube-arb	Pass	Pass	Unsupported	Unsupported	Unsupported
texture-sparse-arb	Pass	Pass	Unsupported	Unsupported	Unsupported
Pass	6	3	0		0 0
Ok but not conform	0	0	0		0 0
Workaround	0	0	0		0 0
Fail	0	2	0		0 0
Unsupported	0	1	6		6 6
Sub-Total	6	6	6		6 6
%	100%	50%	0%	09	% 0%

OpenGL 4.4	NVIDIA		AMD		Intel Windows	Intel Linux	A	Apple
atomic-counter	Pass		Pass		Unsupported	Unsupported		Unsupported
buffer-storage	Pass		Pass		Pass	Unsupported		Unsupported
buffer-type	Pass		Fail		Unsupported	Unsupported		Unsupported
caps	Pass		Pass		Unsupported	Unsupported		Unsupported
fbo-without-attachment	Pass		Pass		Unsupported	Unsupported		Unsupported
interface-matching	Pass		Fail		Unsupported	Unsupported		Unsupported
query-occlusion	Pass		Pass		Unsupported	Unsupported		Unsupported
sampler-wrap	Pass		Fail		Unsupported	Unsupported		Unsupported
texture-compressed	Pass		Pass		Unsupported	Unsupported		Unsupported
transform-feedback	Pass		Fail		Unsupported	Unsupported		Unsupported
Pass		10		6	1		0	0
Ok but not conform		0		0	0		0	0
Workaround		0		0	0		0	0
Fail		0		4	0		0	0
Unsupported		0		0	9		8	8
Sub-Total		10		10	10		8	8

%	100%	60%	10%	0	% 0%
OpenGL 4.3	NVIDIA	AMD	Intel Windows	Intel Linux	Apple
atomic-counter	Pass	Pass	Pass	Unsupported	Unsupported
caps	Pass	Pass	Pass	Unsupported	Unsupported
debug	Pass	Pass	Pass	Unsupported	Unsupported
draw-vertex-attrib-binding	Pass	Pass	Pass	Unsupported	Unsupported
draw-without-vertex-attrib	Pass	Pass	Pass	Unsupported	Unsupported
fbo-invalidate	Pass	Pass	Pass	Unsupported	Unsupported
fbo-without-attachment	Pass	Pass	Pass	Unsupported	Unsupported
image-sampling	Pass	Pass	Fail	Unsupported	Unsupported
image-store	Pass	Pass	Pass	Unsupported	Unsupported
interface-matching	Pass	Pass	Fail	Unsupported	Unsupported
multi-draw-indirect	Pass	Pass	Pass	Unsupported	Unsupported
program-compute	Pass	Pass	Pass	Unsupported	Unsupported
program-compute-image	Pass	Pass	Pass	Unsupported	Unsupported
program-subroutine	Pass	Pass	Pass	Unsupported	Unsupported
query-conditional	Pass	Pass	Fail	Unsupported	Unsupported
query-occlusion	Pass	Pass	Pass	Unsupported	Unsupported
texture-buffer	Pass	Pass	Pass	Unsupported	Unsupported
texture-copy	Pass	Pass	Pass	Unsupported	Unsupported
texture-storage	Pass	Pass	Pass	Unsupported	Unsupported
texture-view	Pass	Pass	Fail	Unsupported	Unsupported
Pass	20	20	16		(
Ok but not conform	0	0	0		(
Workaround	0	0	0		(
Fail	0	0	4		(
Unsupported	0	0	0		(
Sub-Total	20	20	20		(
%	100%	100%	80%		0%
OpenGL 4.2	NVIDIA	AMD	Intel Windows	Intel Linux	Apple
atomic-counter	Pass	Pass	Pass	Unsupported	Unsupported

buffer-uniform	Pass	Pass	Pass	Unsupported	Unsupported
caps	Pass	Pass	Pass	Unsupported	Unsupported
clipping	Pass	Pass	Pass	Unsupported	Unsupported
debug-output	Pass	Pass	Pass	Unsupported	Unsupported
draw-base-instance	Pass	Pass	Pass	Unsupported	Unsupported
draw-image-space-rendering	Pass	Pass	Pass	Unsupported	Unsupported
fbo	Pass	Pass	Pass	Unsupported	Unsupported
image-load	Pass	Pass	Pass	Unsupported	Unsupported
image-store	Pass	Pass	Pass	Unsupported	Unsupported
image-unpack	Pass	Pass	Pass	Unsupported	Unsupported
interface-matching	Pass	Pass	Pass	Unsupported	Unsupported
memory-barrier	Pass	Pass	Pass	Unsupported	Unsupported
picking	Pass	Pass	Pass	Unsupported	Unsupported
primitive-line-aa	Pass	Fail	Pass	Unsupported	Unsupported
sampler-fetch	Pass	Pass	Pass	Unsupported	Unsupported
sampler-gather	Pass	Pass	Pass	Unsupported	Unsupported
test-depth-conservative	Pass	Pass	Pass	Unsupported	Unsupported
texture-array	Pass	Pass	Pass	Unsupported	Unsupported
texture-compressed	Pass	Pass	Pass	Unsupported	Unsupported
texture-conversion	Pass	Fail	Pass	Unsupported	Unsupported
texture-cube	Pass	Pass	Pass	Unsupported	Unsupported
texture-pixel-store	Pass	Pass	Pass	Unsupported	Unsupported
texture-storage	Pass	Pass	Pass	Unsupported	Unsupported
transform-feedback-instanced	Pass	Pass	Pass	Unsupported	Unsupported
Pass	25	23	25		0
Ok but not conform	0	0	0		0
Workaround	0	0	0		0
Fail	0	2	0		0
Untested	0	0	0		0
Sub-Total	25	25	25		0
%	100%	92%	100%		0%
OpenGL 4.1	NVIDIA	AMD	Intel Windows	Intel Linux	Apple

caps	Pass	Pass	Pass	Unsupported	Pass
fbo-layered	Pass	Pass	Pass	Unsupported	Pass
primitive-instanced	Pass	Pass	Pass	Unsupported	Pass
primitive-tessellation-2	Pass	Pass	Pass	Unsupported	Fail
primitive-tessellation-5	Pass	Pass	Pass	Unsupported	Fail
program-64	Pass	Pass	Pass	Unsupported	Pass
program-binary	Pass	Pass	Pass	Unsupported	Ok
program-separate	Pass	Pass	Pass	Unsupported	Fail
Pass	7	7	7	0	3
Ok but not conform	0	0	0	0	1
Workaround	0	0	0	0	0
Fail	0	0	0	0	3
Untested	0	0	0	0	0
Sub-Total	7	7	7	0	7
%	100%	100%	100%	0%	57%

OpenGL 4.0	NVIDIA	AMD	Intel Windows	Intel Linux	Apple
blend-rtt	Pass	Pass	Fail	Unsupported	Pass
caps	Pass	Pass	Pass	Unsupported	Pass
draw-indirect	Pass	Pass	Pass	Unsupported	Pass
fbo-layered	Pass	Pass	Pass	Unsupported	Pass
fbo-multisample	Pass	Pass	Pass	Unsupported	Pass
fbo-rtt	Pass	Pass	Pass	Unsupported	Pass
fbo-rtt-texture-array	Pass	Pass	Pass	Unsupported	Pass
fbo-shadow	Pass	Pass	Pass	Unsupported	Fail
primitive-instanced	Pass	Pass	Pass	Unsupported	Pass
primitive-smooth-shading	Pass	Pass	Pass	Unsupported	Pass
primitive-tessellation	Pass	Pass	Pass	Unsupported	Pass
program-64	Pass	Pass	Pass	Unsupported	Pass
program-subroutine	Pass	Pass	Pass	Unsupported	Pass
program-varying-blocks	Pass	Pass	Pass	Unsupported	Pass
program-varying-structs	Pass	Pass	Pass	Unsupported	Fail
sampler-array	Pass	Pass	Pass	Unsupported	Pass

sampler-fetch	Pass	Pass	Pass	Unsupported	Pass
texture-buffer-rgb	Pass	Pass	Pass	Unsupported	Pass
texture-cube	Pass	Pass	Pass	Unsupported	Pass
texture-derivative	Ok	Pass	Pass	Unsupported	Pass
transform-feedback-object	Pass	Pass	Pass	Unsupported	Pass
transform-feedback-stream	Pass	Pass	Pass	Unsupported	Fail
Pass	21	22	21	0	19
Ok but not conform	1	0	0	0	0
Workaround	0	0	0	0	0
Fail	0	0	1	0	3
Untested	0	0	0	0	0
Sub-Total	22	22	22	0	22
%	100%	100%	95%	0%	86%

OpenGL 3.3	NVIDIA	AMD	Intel Windows	Intel Linux	Apple
blend-index	Pass	Pass	Pass	Pass	Pass
blend-rtt	Pass	Pass	Fail	Pass	Pass
buffer-type	Pass	Pass	Pass	Pass	Pass
caps	Pass	Pass	Pass	Pass	Pass
draw-instanced-array	Pass	Pass	Pass	Pass	Pass
query-conditional	Pass	Pass	Pass	Pass	Pass
query-occlusion	Pass	Pass	Pass	Pass	Pass
query-timer	Pass	Pass	Pass	Pass	Pass
sampler-anisotropy-ext	Pass	Pass	Pass	Pass	Pass
sampler-filter	Pass	Pass	Pass	Pass	Pass
sampler-object	Pass	Pass	Pass	Pass	Pass
sampler-wrap	Pass	Pass	Pass	Pass	Pass
texture-integer-rgb10a2ui	Pass	Pass	Pass	Pass	Pass
texture-rect	Pass	Pass	Pass	Fail	Pass
texture-swizzle	Pass	Pass	Pass	Pass	Pass
Pass	15	15	14	1	14 15
Ok but not conform	0	0	(	)	0 0
Workaround	0	0	(	)	0 0

Fail	0	0	1	1	0
Untested	0	0	0	0	0
Sub-Total	15	15	15	15	15
%	100%	100%	93%	93%	100%

OpenGL 3.2	NVIDIA	AMD	Intel Windows	Intel Linux	Apple
buffer-uniform	Pass	Pass	Pass	Pass	Pass
buffer-uniform-shared	Pass	Pass	Pass	Pass	Pass
buffer-update	Pass	Pass	Pass	Pass	Pass
caps	Pass	Pass	Pass	Pass	Pass
draw-base-vertex	Pass	Fail	Pass	Pass	Pass
draw-image-space	Pass	Pass	Pass	Pass	Pass
draw-instanced	Pass	Pass	Pass	Pass	Pass
draw-multiple	Pass	Pass	Pass	Pass	Pass
draw-range-arrays	Pass	Pass	Pass	Pass	Pass
draw-range-elements	Pass	Pass	Pass	Pass	Pass
draw-without-vertex-attrib	Pass	Pass	Pass	Pass	Pass
fbo	Pass	Pass	Pass	Pass	Pass
fbo-blit	Pass	Pass	Fail	Pass	Pass
fbo-depth	Pass	Pass	Pass	Pass	Pass
fbo-depth-multisample	Pass	Pass	Pass	Workaround	Pass
fbo-layered	Pass	Pass	Pass	Pass	Pass
fbo-multisample	Pass	Pass	Pass	Workaround	Pass
fbo-multisample-explicit	Pass	Pass	Pass	Pass	Pass
fbo-multisample-integer	Pass	Pass	Pass	Fail	Unsupported
fbo-rtt	Pass	Pass	Pass	Pass	Pass
fbo-rtt-texture-array	Pass	Pass	Pass	Pass	Pass
fbo-shadow	Pass	Pass	Pass	Pass	Fail
fbo-srgb	Pass	Pass	Pass	Pass	Pass
glsl-builtin-blocks	Pass	Pass	Pass	Pass	Pass
glsl-cast-fail	Fail	Pass	Fail	Pass	Fail
glsl-discard	Pass	Pass	Pass	Pass	Pass
glsl-input-struct	Fail	Pass	Pass	Pass	Pass

glsl-precision	Pass	Pass	Pass	Pass	Ра	ISS
primitive-front-face	Pass	Pass	Pass	Pass	Pa	ISS
primitive-line-msaa	Pass	Pass	Pass	Pass	Pa	ISS
primitive-point	Pass	Pass	Pass	Pass	Pa	ISS
primitive-point-clip	Ok	Pass	Pass	Pass	Pa	ISS
primitive-point-quad	Pass	Pass	Pass	Fail	Pa	ISS
primitive-shading	Fail	Fail	Pass	Fail	Pa	ISS
primitive-sprite	Pass	Pass	Pass	Pass	Pa	SS
program	Pass	Pass	Pass	Pass	Pa	SS
program-uniform	Pass	Pass	Pass	Pass	Pa	SS
query-conditional	Pass	Fail	Pass	Pass	Pa	SS
query-occlusion	Pass	Pass	Pass	Pass	Pa	SS
sync	Pass	Pass	Pass	Pass	Pa	SS
test-scissor	Pass	Pass	Pass	Pass	Pa	SS
texture-2d	Pass	Pass	Pass	Pass	Pa	SS
texture-3d	Pass	Pass	Pass	Pass	Pa	SS
texture-buffer	Pass	Pass	Pass	Pass	Pa	SS
texture-compressed-ext	Pass	Pass	Pass	Pass	Pa	SS
texture-cube	Pass	Pass	Pass	Pass	Pa	SS
texture-derivative	Pass	Pass	Pass	Pass	Pa	SS
texture-fetch	Pass	Pass	Pass	Pass	Pa	SS
texture-format	Pass	Pass	Pass	Pass	Pa	SS
texture-integer	Pass	Pass	Pass	Fail	Pa	SS
texture-offset	Pass	Pass	Pass	Pass	Pa	SS
texture-pixel-store	Pass	Pass	Pass	Pass	Pa	SS
texture-streaming	Pass	Pass	Pass	Pass	Pa	SS
transform-feedback-interleave	Pass	Pass	Pass	Pass	Pa	SS
transform-feedback-separate	Pass	Pass	Pass	Pass	Pa	SS
Pass	5	1 5	2	53	49	51
Ok but not conform		1	0	0	0	0
Workaround		0	0	0	2	0
Fail		3	3	2	4	2
Untested		0	C	0	0	0

Sub-Total	55	55	55	55	53
%	95%	95%	96%	89%	96%

Extensions	NVIDIA	AMD	Intel Windows	Intel Linux	Apple
440-shader-invocation-nv	Pass	Unsupported	Unsupported	Unsupported	Unsupported
430-perf-monitor-amd	Unsupported	Pass	Unsupported	Unsupported	Unsupported
430-direct-state-access-ext	Pass	Pass	Pass	Unsupported	Unsupported
420-blend-op-amd	Unsupported	Pass	Unsupported	Unsupported	Unsupported
120-buffer-pinned-amd	Unsupported	Pass	Unsupported	Unsupported	Unsupported
420-fbo-layered-amd	Unsupported	Pass	Fail	Unsupported	Unsupported
420-fbo-multisample-dsa-nv	Pass	Unsupported	Unsupported	Unsupported	Unsupported
420-fbo-multisample-amd	Unsupported	Pass	Unsupported	Unsupported	Unsupported
420-fbo-srgb-decode-ext	Pass	Pass	Pass	Unsupported	Unsupported
420-primitive-bindless-nv	Pass	Unsupported	Unsupported	Unsupported	Unsupported
120-test-depth-clamp-amd	Unsupported	Pass	Unsupported	Unsupported	Unsupported
120-texture-bindless-nv	Pass	Unsupported	Unsupported	Unsupported	Unsupported
120-texture-sparse-amd	Unsupported	Fail	Unsupported	Unsupported	Unsupported
420-buffer-pinned-amd	Unsupported	Pass	Unsupported	Unsupported	Unsupported
420-blend-op-amd	Unsupported	Pass	Unsupported	Unsupported	Unsupported
400-sampler-array-nv	Pass	Unsupported	Unsupported	Unsupported	Unsupported
330-sampler-anisotropic-ext	Pass	Pass	Pass	Unsupported	Unsupported
330-fbo-multisample-nv	Pass	Pass	Unsupported	Unsupported	Unsupported
320-texture-compressed-ext	Pass	Pass	Pass	Pass	Pass
Pass	9	13	4		1 1
Ok but not conform	0	0	0		0 (
Workaround	0	0	0		0 (
Fail	0	1	1		0 0
Untested	0	0	0		0 0
Sub-Total	9	14	5		1 1
%	100%	93%	80%	100	% 100%
OpenGL ES 3.0	NVIDIA	AMD	Intel Windows	Intel Linux	Applo
es-300-draw-elements	Pass	Unsupported	Pass	Unsupported	Apple Unsupported

OpenGL ES 3.0	NVIDIA	AMD	Intel Windows	Intel Linux	Apple
es-300-draw-elements	Pass	Unsupported	Pass	Unsupported	Unsupported

Pass	1	0	1	0	0
Ok but not conform	0	0	0	0	0
Workaround	0	0	0	0	0
Fail	0	0	0	0	0
Untested	0	0	0	0	0
Sub-Total	1	0	1	0	0
%	100%	0%	100%	100%	0%

OpenGL ES 2.0	NVIDIA	AMD	Intel Windows	Intel Linux	Apple
es-200-draw-elements	Pass	Unsupported	Pass	Pass	Unsupported
Pass	1	0	1	1	. 0
Ok but not conform	0	0	0	C	) 0
Workaround	0	0	0	C	) 0
Fail	0	0	0	C	) 0
Untested	0	0	0	C	) 0
Sub-Total	1	0	1	1	0
%	100%	0%	100%	100%	6 O%