# OpenGL Reference Update

**Graphics & Imaging > OpenGL** 



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### **Document Revision History 139**

# Introduction to OpenGL Reference Update

This document summarizes the symbols that have been added to the OpenGL framework. The full reference documentation notes in what version a symbol was introduced, but sometimes it's useful to see only the new symbols for a given release.

If you are not familiar with this framework you should refer to the complete framework reference documentation.

# Organization of This Document

Symbols are grouped by class or protocol for Objective-C and by header file for C. For each symbol there is a link to complete documentation, if available, and a brief description, if available.

# See Also

For reference documentation on this framework, see CGL Reference.

Introduction to OpenGL Reference Update

# 10.5 Symbol Changes

This article lists the symbols added to OpenGL. framework in Mac OS X v10.5.

# C Symbols

All of the header files with new symbols are listed alphabetically, with their new symbols described.

# CGLMacro.h

### **Data Types & Constants**

	_
CGL_HANDLE_ARB	Ш
glBeginTransformFeedbackEXT	
glBindBufferBaseEXT	
glBindBufferOffsetEXT	
glBindBufferRangeEXT	
glBindFragDataLocationEXT	
glBlitFramebufferEXT	
glClearColorIiEXT	
glClearColorIuiEXT	
glEndTransformFeedbackEXT	
glFramebufferTextureEXT	
glFramebufferTextureFaceEXT	
glFramebufferTextureLayerEXT	
glGetBooleanIndexedvEXT	
glGetFragDataLocationEXT	

glGetIntegerIndexedvEXT
glGetObjectParameterivAPPLE
glGetTexParameterIiuvEXT
glGetTexParameterIivEXT
glGetTransformFeedbackVaryingEXT
glGetUniformBufferSizeEXT
glGetUniformOffsetEXT
glGetUniformuivEXT
glGetVertexAttribIivEXT
glGetVertexAttribIuivEXT
glObjectPurgeableAPPLE
glObjectUnpurgeableAPPLE
glProgramParameteriEXT
glRenderbufferStorageMultisampleEXT
glTexParameterIivEXT
glTexParameterIuivEXT
glTransformFeedbackVaryingsEXT
glUniform1uiEXT
glUniform1uivEXT
glUniform2uiEXT
glUniform2uivEXT
glUniform3uiEXT
g1Uniform3uivEXT
g1Uniform4uiEXT
glUniform4uivEXT
glUniformBufferEXT
glUniformMatrix2x3fv
glUniformMatrix2x4fv

glUniformMatrix3x2fv	
glUniformMatrix3x4fv	
glUniformMatrix4x2fv	
glUniformMatrix4x3fv	
glVertexAttribI1iEXT	
glVertexAttribI1ivEXT	
glVertexAttribI1uiEXT	
glVertexAttribI1uivEXT	
glVertexAttribI2iEXT	
glVertexAttribI2ivEXT	
glVertexAttribI2uiEXT	
glVertexAttribI2uivEXT	
glVertexAttribI3iEXT	
glVertexAttribI3ivEXT	
glVertexAttribI3uiEXT	
glVertexAttribI3uivEXT	
glVertexAttribI4bvEXT	
glVertexAttribI4iEXT	
glVertexAttribI4ivEXT	
glVertexAttribI4svEXT	
glVertexAttribI4ubvEXT	
glVertexAttribI4uiEXT	
glVertexAttribI4uivEXT	
glVertexAttribI4usvEXT	
glVertexAttribIPointerEXT	
	-

# CGLProfilerFunctionEnum.h

# **Data Types & Constants**

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

kCGLFEglBlitFramebufferEXT
kCGLFEg1GetObjectParameterivAPPLE
kCGLFEg1GetRenderbufferStorageFormatOES
kCGLFEg1GetShaderPrecisionFormat0ES
kCGLFEg10bjectPurgeableAPPLE
kCGLFEg1ObjectUnpurgeableAPPLE
kCGLFEg1ProgramEnvParameters4fvEXT
kCGLFEg1ProgramLoca1Parameters4fvEXT
kCGLFEglReleaseShaderCompilerOES
kCGLFEglRenderbufferStorageMultisampleEXT
kCGLFEglShaderBinaryOES
kCGLFEglUniformMatrix2x3fv
kCGLFEglUniformMatrix2x4fv
kCGLFEglUniformMatrix3x2fv
kCGLFEglUniformMatrix3x4fv
kCGLFEglUniformMatrix4x2fv
kCGLFEglUniformMatrix4x3fv

# CGLRenderers.h

### **Data Types & Constants**

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

kCGLRendererATIRadeonX2000ID

kCGLRendererGeForce8xxxID

# CGLTypes.h

### **Data Types & Constants**

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

kCGLCPHasDrawable	ı
kCGLCPMPSwapsInFlight	
kCGLGOUseBuildCache	
kCGLPFAAllowOfflineRenderers	
kCGLRPOnline	

# OpenGL.h

#### **Functions**

All of the new functions in this header file are listed alphabetically, with links to documentation and abstracts, if available.

CGLGetContextRetainCount	
CGLGetPBufferRetainCount	L
CGLGetPixelFormat	
CGLGetPixelFormatRetainCount	
CGLReleaseContext	
CGLReleasePBuffer	
CGLReleasePixelFormat	<u></u>
CGLRetainContext	L
CGLRetainPBuffer	
CGLRetainPixelFormat	

#### **Data Types & Constants**

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

```
CGL_VERSION_1_2
```

# gl.h

#### **Functions**

All of the new functions in this header file are listed alphabetically, with links to documentation and abstracts, if available.

```
glUniformMatrix2x3fv

glUniformMatrix2x4fv

glUniformMatrix3x2fv

glUniformMatrix3x4fv

glUniformMatrix4x2fv
```

#### **Data Types & Constants**

GL_COMPRESSED_SLUMINANCE	
GL_COMPRESSED_SLUMINANCE_ALPHA	
GL_COMPRESSED_SRGB	
GL_COMPRESSED_SRGB_ALPHA	
GL_CURRENT_RASTER_SECONDARY_COLOR	
GL_FLOAT_MAT2x3	
GL_FLOAT_MAT2x4	
GL_FLOAT_MAT3x2	
GL_FLOAT_MAT3x4	
GL_FLOAT_MAT4x2	

GL_FLOAT_MAT4x3	
GL_PIXEL_PACK_BUFFER	
GL_PIXEL_PACK_BUFFER_BINDING	
GL_PIXEL_UNPACK_BUFFER	
GL_PIXEL_UNPACK_BUFFER_BINDING	
GL_SLUMINANCE	
GL_SLUMINANCE8	
GL_SLUMINANCE8_ALPHA8	
GL_SLUMINANCE_ALPHA	
GL_SRGB	
GL_SRGB8	
GL_SRGB8_ALPHA8	
GL_SRGB_ALPHA	
GL_VERSION_2_1	

# glext.h

### **Functions**

All of the new functions in this header file are listed alphabetically, with links to documentation and abstracts, if available.

glBeginTransformFeedbackEXT	
glBindBufferBaseEXT	
glBindBufferOffsetEXT	
glBindBufferRangeEXT	
glBindFragDataLocationEXT	
glBlitFramebufferEXT	
glClearColorIiEXT	
glClearColorIuiEXT	
glEndTransformFeedbackEXT	

glFramebufferTextureEXT
glFramebufferTextureFaceEXT
glFramebufferTextureLayerEXT
glGetBooleanIndexedvEXT
glGetFragDataLocationEXT
glGetIntegerIndexedvEXT
glGetObjectParameterivAPPLE
glGetTexParameterIiuvEXT
glGetTexParameterIivEXT
glGetTransformFeedbackVaryingEXT
glGetUniformBufferSizeEXT
glGetUniformOffsetEXT
glGetUniformuivEXT
glGetVertexAttribIivEXT
glGetVertexAttribIuivEXT
glObjectPurgeableAPPLE
glObjectUnpurgeableAPPLE
glProgramParameteriEXT
glRenderbufferStorageMultisampleEXT
glTexParameterIivEXT
glTexParameterIuivEXT
glTransformFeedbackVaryingsEXT
glUniform1uiEXT
glUniform1uivEXT
glUniform2uiEXT
glUniform2uivEXT
glUniform3uiEXT
glUniform3uivEXT

glUniform4uiEXT
glUniform4uivEXT
glUniformBufferEXT
glVertexAttribI1iEXT
glVertexAttribI1ivEXT
glVertexAttribI1uiEXT
glVertexAttribI1uivEXT
glVertexAttribI2iEXT
glVertexAttribI2ivEXT
glVertexAttribI2uiEXT
glVertexAttribI2uivEXT
glVertexAttribI3iEXT
glVertexAttribI3ivEXT
glVertexAttribI3uiEXT
glVertexAttribI3uivEXT
glVertexAttribI4bvEXT
glVertexAttribI4iEXT
glVertexAttribI4ivEXT
glVertexAttribI4svEXT
glVertexAttribI4ubvEXT
glVertexAttribI4uiEXT
glVertexAttribI4uivEXT
glVertexAttribI4usvEXT
glVertexAttribIPointerEXT

# Data Types & Constants

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

GL_ALPHA16I_EXT		
-----------------	--	--

15 C Symbols

GL_ALPHA16UI_EXT
GL_ALPHA32I_EXT
GL_ALPHA32UI_EXT
GL_ALPHA8I_EXT
GL_ALPHA8UI_EXT
GL_ALPHA_INTEGER_EXT
GL_APPLE_aux_depth_stencil
GL_APPLE_object_purgeable
GL_APPLE_row_bytes
GL_ARB_half_float_pixel
GL_AUX_DEPTH_STENCIL_APPLE
GL_BGR_INTEGER_EXT
GL_BGRA_INTEGER_EXT
GL_BLUE_INTEGER_EXT
GL_COMPRESSED_SLUMINANCE_ALPHA_EXT
GL_COMPRESSED_SLUMINANCE_EXT
GL_COMPRESSED_SRGB_ALPHA_EXT
GL_COMPRESSED_SRGB_ALPHA_S3TC_DXT1_EXT
GL_COMPRESSED_SRGB_ALPHA_S3TC_DXT3_EXT
GL_COMPRESSED_SRGB_ALPHA_S3TC_DXT5_EXT
GL_COMPRESSED_SRGB_EXT
GL_COMPRESSED_SRGB_S3TC_DXT1_EXT
GL_DRAW_FRAMEBUFFER_BINDING_EXT
GL_DRAW_FRAMEBUFFER_EXT
GL_EXT_bindable_uniform
GL_EXT_framebuffer_blit
GL_EXT_framebuffer_multisample
GL_EXT_geometry_shader4

GL_EXT_gpu_shader4
GL_EXT_texture_integer
GL_EXT_texture_sRGB
GL_EXT_transform_feedback
GL_FRAMEBUFFER_ATTACHMENT_LAYERED_EXT
GL_FRAMEBUFFER_ATTACHMENT_TEXTURE_LAYER_EXT
GL_FRAMEBUFFER_INCOMPLETE_LAYER_COUNT_EXT
GL_FRAMEBUFFER_INCOMPLETE_LAYER_TARGETS_EXT
GL_FRAMEBUFFER_INCOMPLETE_MULTISAMPLE_EXT
GL_GEOMETRY_INPUT_TYPE_EXT
GL_GEOMETRY_OUTPUT_TYPE_EXT
GL_GEOMETRY_SHADER_EXT
GL_GEOMETRY_VERTICES_OUT_EXT
GL_GREEN_INTEGER_EXT
GL_HALF_FLOAT_ARB
GL_INT_SAMPLER_1D_ARRAY_EXT
GL_INT_SAMPLER_1D_EXT
GL_INT_SAMPLER_2D_ARRAY_EXT
GL_INT_SAMPLER_2D_EXT
GL_INT_SAMPLER_2D_RECT_EXT
GL_INT_SAMPLER_3D_EXT
GL_INT_SAMPLER_BUFFER_EXT
GL_INT_SAMPLER_CUBE_EXT
GL_INTENSITY16I_EXT
GL_INTENSITY16UI_EXT
GL_INTENSITY32I_EXT
GL_INTENSITY32UI_EXT
GL_INTENSITY8I_EXT

GL_INTENSITY8UI_EXT
GL_INTERLEAVED_ATTRIBS_EXT
GL_LINE_STRIP_ADJACENCY_EXT
GL_LINES_ADJACENCY_EXT
GL_LUMINANCE16I_EXT
GL_LUMINANCE16UI_EXT
GL_LUMINANCE32I_EXT
GL_LUMINANCE32UI_EXT
GL_LUMINANCE8I_EXT
GL_LUMINANCE8UI_EXT
GL_LUMINANCE_ALPHA16I_EXT
GL_LUMINANCE_ALPHA16UI_EXT
GL_LUMINANCE_ALPHA32I_EXT
GL_LUMINANCE_ALPHA32UI_EXT
GL_LUMINANCE_ALPHA8I_EXT
GL_LUMINANCE_ALPHA8UI_EXT
GL_LUMINANCE_ALPHA_INTEGER_EXT
GL_LUMINANCE_INTEGER_EXT
GL_MAX_BINDABLE_UNIFORM_SIZE_EXT
GL_MAX_FRAGMENT_BINDABLE_UNIFORMS_EXT
GL_MAX_GEOMETRY_BINDABLE_UNIFORMS_EXT
GL_MAX_GEOMETRY_OUTPUT_VERTICES_EXT
GL_MAX_GEOMETRY_TEXTURE_IMAGE_UNITS_EXT
GL_MAX_GEOMETRY_TOTAL_OUTPUT_COMPONENTS_EXT
GL_MAX_GEOMETRY_UNIFORM_COMPONENTS_EXT
GL_MAX_GEOMETRY_VARYING_COMPONENTS_EXT
GL_MAX_PROGRAM_TEXEL_OFFSET_EXT
GL_MAX_SAMPLES_EXT

GL_MAX_TRANSFORM_FEEDBACK_INTERLEAVED_COMPONENTS_EXT
GL_MAX_TRANSFORM_FEEDBACK_SEPARATE_ATTRIBS_EXT
GL_MAX_TRANSFORM_FEEDBACK_SEPARATE_COMPONENTS_EXT
GL_MAX_VARYING_COMPONENTS_EXT
GL_MAX_VERTEX_BINDABLE_UNIFORMS_EXT
GL_MAX_VERTEX_VARYING_COMPONENTS_EXT
GL_MIN_PROGRAM_TEXEL_OFFSET_EXT
GL_PACK_IMAGE_BYTES_APPLE
GL_PACK_ROW_BYTES_APPLE
GL_PRIMITIVES_GENERATED_EXT
GL_PROGRAM_POINT_SIZE_EXT
GL_PURGEABLE_APPLE
GL_RASTERIZER_DISCARD_EXT
GL_READ_FRAMEBUFFER_BINDING_EXT
GL_READ_FRAMEBUFFER_EXT
GL_RED_INTEGER_EXT
GL_RELEASED_APPLE
GL_RENDERBUFFER_SAMPLES_EXT
GL_RETAINED_APPLE
GL_RGB16I_EXT
GL_RGB16UI_EXT
GL_RGB32I_EXT
GL_RGB32UI_EXT
GL_RGB8I_EXT
GL_RGB8UI_EXT
GL_RGB_INTEGER_EXT
GL_RGBA16I_EXT
GL_RGBA16UI_EXT

GL_RGBA32I_EXT
GL_RGBA32UI_EXT
GL_RGBA8I_EXT
GL_RGBA8UI_EXT
GL_RGBA_INTEGER_EXT
GL_RGBA_INTEGER_MODE_EXT
GL_SAMPLER_1D_ARRAY_EXT
GL_SAMPLER_1D_ARRAY_SHADOW_EXT
GL_SAMPLER_2D_ARRAY_EXT
GL_SAMPLER_2D_ARRAY_SHADOW_EXT
GL_SAMPLER_BUFFER_EXT
GL_SAMPLER_CUBE_SHADOW_EXT
GL_SEPARATE_ATTRIBS_EXT
GL_SHADING_LANGUAGE_VERSION_ARB
GL_SLUMINANCE8_ALPHA8_EXT
GL_SLUMINANCE8_EXT
GL_SLUMINANCE_ALPHA_EXT
GL_SLUMINANCE_EXT
GL_SRGB8_ALPHA8_EXT
GL_SRGB8_EXT
GL_SRGB_ALPHA_EXT
GL_SRGB_EXT
GL_TRANSFORM_FEEDBACK_BUFFER_BINDING_EXT
GL_TRANSFORM_FEEDBACK_BUFFER_EXT
GL_TRANSFORM_FEEDBACK_BUFFER_MODE_EXT
GL_TRANSFORM_FEEDBACK_BUFFER_SIZE_EXT
GL_TRANSFORM_FEEDBACK_BUFFER_START_EXT
GL_TRANSFORM_FEEDBACK_PRIMITIVES_WRITTEN_EXT

GL_TRANSFORM_FEEDBACK_VARYING_MAX_LENGTH_EXT
GL_TRANSFORM_FEEDBACK_VARYINGS_EXT
GL_TRIANGLE_STRIP_ADJACENCY_EXT
GL_TRIANGLES_ADJACENCY_EXT
GL_UNDEFINED_APPLE
GL_UNIFORM_BUFFER_BINDING_EXT
GL_UNIFORM_BUFFER_EXT
GL_UNPACK_IMAGE_BYTES_APPLE
GL_UNPACK_ROW_BYTES_APPLE
GL_UNSIGNED_INT_SAMPLER_1D_ARRAY_EXT
GL_UNSIGNED_INT_SAMPLER_1D_EXT
GL_UNSIGNED_INT_SAMPLER_2D_ARRAY_EXT
GL_UNSIGNED_INT_SAMPLER_2D_EXT
GL_UNSIGNED_INT_SAMPLER_2D_RECT_EXT
GL_UNSIGNED_INT_SAMPLER_3D_EXT
GL_UNSIGNED_INT_SAMPLER_BUFFER_EXT
GL_UNSIGNED_INT_SAMPLER_CUBE_EXT
GL_UNSIGNED_INT_VEC2_EXT
GL_UNSIGNED_INT_VEC3_EXT
GL_UNSIGNED_INT_VEC4_EXT
GL_VERTEX_ATTRIB_ARRAY_INTEGER_EXT
GL_VOLATILE_APPLE

# **10.4 Symbol Changes**

This article lists the symbols added to OpenGL. framework in Mac OS X v10.4.

# **C** Symbols

All of the header files with new symbols are listed alphabetically, with their new symbols described.

# CGLMacro.h

### **Data Types & Constants**

CGL_MACRO_CONTEXT_RENDERER	
CGL_MACRO_DECLARE_CONTEXT	
CGL_MACRO_DECLARE_RENDERER	
CGL_MACRO_DECLARE_VARIABLES	
CGL_MACRO_RENDERER	
glAttachShader	
glBindAttribLocation	
glBindFramebufferEXT	
glBindRenderbufferEXT	
glBlendEquationSeparate	
glBufferParameteriAPPLE	
glCheckFramebufferStatusEXT	
glCompileShader	
glCreateProgram	
glCreateShader	

glDeleteFramebuffersEXT
glDeleteProgram
glDeleteRenderbuffersEXT
glDeleteShader
glDetachShader
glDisableVertexAttribArray
glDrawBuffers
glDrawBuffersARB
glEnableVertexAttribArray
glFlushMappedBufferRangeAPPLE
glFramebufferRenderbufferEXT
glFramebufferTexture1DEXT
glFramebufferTexture2DEXT
glFramebufferTexture3DEXT
glGenerateMipmapEXT
glGenFramebuffersEXT
glGenRenderbuffersEXT
glGetActiveAttrib
glGetActiveUniform
glGetAttachedShaders
glGetAttribLocation
glGetFramebufferAttachmentParameterivEXT
glGetProgramInfoLog
glGetProgramiv
glGetRenderbufferParameterivEXT
glGetShaderInfoLog
glGetShaderiv
glGetShaderSource

glGetUniformiv
glGetUniformLocation
glGetVertexAttribdv
glGetVertexAttribfv
glGetVertexAttribiv
glGetVertexAttribPointerv
glIsFramebufferEXT
glIsProgram
glIsRenderbufferEXT
glIsShader
glLinkProgram
glMultiDrawElementArrayAPPLE
glMultiDrawRangeElementArrayAPPLE
glPointParameteri
glPointParameteriv
glProgramEnvParameters4fvEXT
glProgramLocalParameters4fvEXT
glRenderbufferStorageEXT
glShaderSource
glStencilFuncSeparate
glStencilMaskSeparate
glStencilOpSeparate
glUniform1f
glUniform1fv
glUniform1i
glUniform1iv
glUniform2f

glUniform2fy glUniform2i glUniform3f glUniform3f glUniform3i glUniform3i glUniform4f glUniform4f glUniform4fv glUniform4tiv glUniform4tiv glUniform4tiv glUniformm4trix2fv glUniformm4trix3fv glUniformm4trix3fv glUniformm4trix4fv glUniform6trix4fv glUvertexAttribld glVertexAttribld glVertexAttriblf glVertexAttribls glVertexAttribls glVertexAttrib2d glVertexAttrib2d glVertexAttrib2d glVertexAttrib2f glVertexAttrib2f glVertexAttrib2f	711.46
glUniform2iv glUniform3f glUniform3f glUniform3i glUniform4f glUniform4f glUniform4f glUniform4i glUniform4iv glUniform4iv glUniform8trix2fv glUniform8trix3fv glUniform8trix3fv glUniform8trix4fv glUseProgram glVertexAttribld glVertexAttriblf glVertexAttriblf glVertexAttriblf glVertexAttribls glVertexAttribls glVertexAttribls glVertexAttrib2d glVertexAttrib2d glVertexAttrib2fy glVertexAttrib2fy	glUniform2fv
glUniform3f glUniform3f glUniform3f glUniform3i glUniform4f glUniform4f glUniform4f glUniform4i glUniform4i glUniformMatrix2fv glUniformMatrix3fv glUniformMatrix3fv glUniformMatrix4fv glUseProgram glValidateProgram glValidateProgram glVertexAttribld glVertexAttriblf glVertexAttriblf glVertexAttriblf glVertexAttribls glVertexAttribls glVertexAttribls glVertexAttribls glVertexAttrib2d glVertexAttrib2d	glUniform2i
glUniform3i glUniform3i glUniform4f glUniform4f glUniform4f glUniform4i glUniform4i glUniformMatrix2fv glUniformMatrix3fv glUniformMatrix3fv glUniformMatrix4fv glUseProgram glVertexAttribld glVertexAttriblf glVertexAttriblf glVertexAttriblf glVertexAttribls glVertexAttribls glVertexAttribls glVertexAttribls glVertexAttribls glVertexAttrib2d glVertexAttrib2d glVertexAttrib2f	glUniform2iv
glUniform3i glUniform3iv glUniform4f glUniform4fv glUniform4iv glUniformMatrix2fv glUniformMatrix3fv glUniformMatrix3fv glUniformMatrix4fv glUseProgram glValidateProgram glValidateProgram glVertexAttribld glVertexAttriblf glVertexAttriblf glVertexAttribls glVertexAttribls glVertexAttribls glVertexAttribls glVertexAttribls glVertexAttribls glVertexAttrib2d glVertexAttrib2d glVertexAttrib2fy	glUniform3f
glUniform3iv glUniform4f glUniform4f glUniform4i glUniform4iv glUniformMatrix2fv glUniformMatrix3fv glUniformMatrix4fv glUseProgram glValidateProgram glVertexAttrib1d glVertexAttrib1f glVertexAttrib1f glVertexAttrib1s glVertexAttrib1s glVertexAttrib2d glVertexAttrib2d glVertexAttrib2d glVertexAttrib2f glVertexAttrib2f glVertexAttrib2f	glUniform3fv
glUniform4fv glUniform4i glUniform4iv glUniformMatrix2fv glUniformMatrix3fv glUniformMatrix4fv glUniformMatrix4fv glUseProgram glValidateProgram glVertexAttribld glVertexAttriblf glVertexAttriblf glVertexAttriblf glVertexAttribls glVertexAttribls glVertexAttribls glVertexAttrib2d glVertexAttrib2d glVertexAttrib2d glVertexAttrib2f glVertexAttrib2f	glUniform3i
glUniform4i  glUniform4i  glUniformMatrix2fv  glUniformMatrix3fv  glUniformMatrix4fv  glUniformMatrix4fv  glUseProgram  glValidateProgram  glVertexAttribld  glVertexAttribldv  glVertexAttriblfs  glVertexAttribls  glVertexAttribls  glVertexAttriblsv  glVertexAttrib2d  glVertexAttrib2d  glVertexAttrib2f  glVertexAttrib2f  glVertexAttrib2f	glUniform3iv
glUniform4i glUniform4iv glUniformMatrix2fv glUniformMatrix3fv glUniformMatrix4fv glUseProgram glValidateProgram glVertexAttribld glVertexAttriblf glVertexAttriblf glVertexAttriblf glVertexAttribls glVertexAttribls glVertexAttriblsv glVertexAttrib2d glVertexAttrib2d glVertexAttrib2f glVertexAttrib2f	glUniform4f
glUniformMatrix2fv glUniformMatrix3fv glUniformMatrix3fv glUniformMatrix4fv glUseProgram glValidateProgram glVertexAttribld glVertexAttribldv glVertexAttriblfy glVertexAttriblfv glVertexAttribls glVertexAttriblsv glVertexAttriblsv glVertexAttrib2dv glVertexAttrib2dv glVertexAttrib2dv glVertexAttrib2fv	glUniform4fv
glUniformMatrix2fv glUniformMatrix3fv glUniformMatrix4fv glUseProgram glValidateProgram glVertexAttrib1d glVertexAttrib1dv glVertexAttrib1f glVertexAttrib1fv glVertexAttrib1s glVertexAttrib1s glVertexAttrib2d glVertexAttrib2d	g1Uniform4i
glUniformMatrix3fv glUniformMatrix4fv glUseProgram glValidateProgram glVertexAttrib1d glVertexAttrib1dv glVertexAttrib1f glVertexAttrib1fv glVertexAttrib1sv glVertexAttrib1sv glVertexAttrib2d glVertexAttrib2dv glVertexAttrib2f	glUniform4iv
glUniformMatrix4fv glUseProgram glValidateProgram glVertexAttrib1d glVertexAttrib1fv glVertexAttrib1fv glVertexAttrib1sv glVertexAttrib2d glVertexAttrib2d glVertexAttrib2dv glVertexAttrib2f	glUniformMatrix2fv
glUseProgram glValidateProgram glVertexAttrib1d glVertexAttrib1dv glVertexAttrib1f glVertexAttrib1fv glVertexAttrib1sv glVertexAttrib1sv glVertexAttrib2d glVertexAttrib2dv glVertexAttrib2fv	glUniformMatrix3fv
glValidateProgram glVertexAttrib1d glVertexAttrib1f glVertexAttrib1fv glVertexAttrib1s glVertexAttrib1s glVertexAttrib1sv glVertexAttrib2d glVertexAttrib2d glVertexAttrib2dv glVertexAttrib2f	g]UniformMatrix4fv
glVertexAttribldv glVertexAttriblf glVertexAttriblfv glVertexAttriblsv glVertexAttriblsv glVertexAttriblsv glVertexAttrib2d glVertexAttrib2d glVertexAttrib2dv glVertexAttrib2f glVertexAttrib2f	glUseProgram
glVertexAttrib1f glVertexAttrib1fv glVertexAttrib1s glVertexAttrib1sv glVertexAttrib2d glVertexAttrib2d glVertexAttrib2dv glVertexAttrib2f glVertexAttrib2f	glValidateProgram
glVertexAttrib1fv glVertexAttrib1sv glVertexAttrib1sv glVertexAttrib2d glVertexAttrib2d glVertexAttrib2dv glVertexAttrib2fv	glVertexAttrib1d
glVertexAttrib1s glVertexAttrib1s glVertexAttrib1sv glVertexAttrib2d glVertexAttrib2d glVertexAttrib2dv glVertexAttrib2f glVertexAttrib2f	glVertexAttrib1dv
glVertexAttribls glVertexAttriblsv glVertexAttrib2d glVertexAttrib2dv glVertexAttrib2f glVertexAttrib2f	glVertexAttrib1f
glVertexAttrib1sv glVertexAttrib2d glVertexAttrib2dv glVertexAttrib2f glVertexAttrib2f	glVertexAttrib1fv
glVertexAttrib2d glVertexAttrib2dv glVertexAttrib2f glVertexAttrib2fv	glVertexAttrib1s
glVertexAttrib2dv glVertexAttrib2f glVertexAttrib2fv	glVertexAttrib1sv
glVertexAttrib2f glVertexAttrib2fv	glVertexAttrib2d
glVertexAttrib2fv	glVertexAttrib2dv
	glVertexAttrib2f
glVertexAttrib2s	glVertexAttrib2fv
	glVertexAttrib2s
glVertexAttrib2sv	glVertexAttrib2sv

glVertexAttrib3d	
glVertexAttrib3dv	
glVertexAttrib3f	
glVertexAttrib3fv	
glVertexAttrib3s	
glVertexAttrib3sv	
glVertexAttrib4bv	
glVertexAttrib4d	
glVertexAttrib4dv	
glVertexAttrib4f	
glVertexAttrib4fv	
glVertexAttrib4iv	
glVertexAttrib4Nbv	
glVertexAttrib4Niv	
glVertexAttrib4Nsv	
glVertexAttrib4Nub	
glVertexAttrib4Nubv	
glVertexAttrib4Nuiv	
glVertexAttrib4Nusv	
glVertexAttrib4s	
glVertexAttrib4sv	
glVertexAttrib4ubv	
glVertexAttrib4uiv	
glVertexAttrib4usv	
glVertexAttribPointer	

# CGLProfiler.h

# **Data Types & Constants**

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

kCGLG0EnableBreakpoint	
kCGLGOHideObjects	
kCGLProfBreakAfter	
kCGLProfBreakBefore	

# CGLProfilerFunctionEnum.h

#### **Data Types & Constants**

CGLProfilerFunctionEnum	
kCGLFECGLChoosePixelFormat	
kCGLFECGLClearDrawable	
kCGLFECGLComment	
kCGLFECGLCopyContext	
kCGLFECGLCreateContext	
kCGLFECGLCreatePBuffer	
kCGLFECGLDescribePBuffer	
kCGLFECGLDescribePixelFormat	
kCGLFECGLDescribeRenderer	
kCGLFECGLDestroyContext	
kCGLFECGLDestroyPBuffer	
kCGLFECGLDestroyPixelFormat	
kCGLFECGLDestroyRendererInfo	

CGLFECGLEnable  CGLFECGLEnushDrawable  CGLFECGLGetCurrentContext  CGLFECGLGetFullScreen  CGLFECGLGetOption  CGLFECGLGetParameter  CGLFECGLGetSurface  CGLFECGLGetSurface  CGLFECGLGetVirtualScreen  CGLFECGLGetVirtualScreen  CGLFECGLGetVirtualScreen  CGLFECGLGetVirtualScreen  CGLFECGLSetCurrentContext  CGLFECGLSetCurrentContext  CGLFECGLSetFullScreen
CGLFECGLFlushDrawable  CGLFECGLGetCurrentContext  CGLFECGLGetFullScreen  CGLFECGLGetOffScreen  CGLFECGLGetOption  CGLFECGLGetParameter  CGLFECGLGetPBuffer  CGLFECGLGetSurface  CGLFECGLGetVersion  CGLFECGLGetVirtualScreen  CGLFECGLGetVirtualScreen  CGLFECGLGetVirtualScreen  CGLFECGLGueryRendererInfo  CGLFECGLSetCurrentContext  CGLFECGLSetFullScreen
CGLFECGLGetCurrentContext  CGLFECGLGetFullScreen  CGLFECGLGetOffScreen  CGLFECGLGetOption  CGLFECGLGetParameter  CGLFECGLGetPBuffer  CGLFECGLGetSurface  CGLFECGLGetVersion  CGLFECGLGetVirtualScreen  CGLFECGLIsEnabled  CGLFECGLQueryRendererInfo  CGLFECGLSetCurrentContext  CGLFECGLSetFullScreen
CGLFECGLGetFullScreen  CGLFECGLGetOffScreen  CGLFECGLGetOption  CGLFECGLGetParameter  CGLFECGLGetPBuffer  CGLFECGLGetSurface  CGLFECGLGetVersion  CGLFECGLGetVirtualScreen  CGLFECGLIsEnabled  CGLFECGLQueryRendererInfo  CGLFECGLSetCurrentContext  CGLFECGLSetFullScreen
CGLFECGLGetOffScreen  CGLFECGLGetOption  CGLFECGLGetParameter  CGLFECGLGetPBuffer  CGLFECGLGetSurface  CGLFECGLGetVersion  CGLFECGLGetVirtualScreen  CGLFECGLIsEnabled  CGLFECGLQueryRendererInfo  CGLFECGLSetCurrentContext  CGLFECGLSetFullScreen
CGLFECGLGetOption  CGLFECGLGetParameter  CGLFECGLGetPBuffer  CGLFECGLGetSurface  CGLFECGLGetVersion  CGLFECGLGetVirtualScreen  CGLFECGLIsEnabled  CGLFECGLQueryRendererInfo  CGLFECGLSetCurrentContext  CGLFECGLSetFullScreen
CGLFECGLGetParameter  CGLFECGLGetSurface  CGLFECGLGetVersion  CGLFECGLGetVirtualScreen  CGLFECGLIsEnabled  CGLFECGLQueryRendererInfo  CGLFECGLSetCurrentContext  CGLFECGLSetFullScreen
CGLFECGLGetPBuffer  CGLFECGLGetSurface  CGLFECGLGetVersion  CGLFECGLGetVirtualScreen  CGLFECGLIsEnabled  CGLFECGLQueryRendererInfo  CGLFECGLSetCurrentContext  CGLFECGLSetFullScreen
CGLFECGLGetSurface  CGLFECGLGetVersion  CGLFECGLGetVirtualScreen  CGLFECGLIsEnabled  CGLFECGLQueryRendererInfo  CGLFECGLSetCurrentContext  CGLFECGLSetFullScreen
CGLFECGLGetVersion  CGLFECGLGetVirtualScreen  CGLFECGLIsEnabled  CGLFECGLQueryRendererInfo  CGLFECGLSetCurrentContext  CGLFECGLSetFullScreen
CGLFECGLGetVirtualScreen  CGLFECGLIsEnabled  CGLFECGLQueryRendererInfo  CGLFECGLSetCurrentContext  CGLFECGLSetFullScreen
CGLFECGLIsEnabled  CGLFECGLQueryRendererInfo  CGLFECGLSetCurrentContext  CGLFECGLSetFullScreen
CGLFECGLQueryRendererInfo CGLFECGLSetCurrentContext CGLFECGLSetFullScreen
CGLFECGLSetCurrentContext CGLFECGLSetFullScreen
CGLFECGLSetFullScreen
CCI EECCI Sat Off Scroon
CdLi LCdL3etOi i 3Ci eeii
CGLFECGLSetOption
CGLFECGLSetParameter
CGLFECGLSetPBuffer
CGLFECGLSetSurface
CGLFECGLSetVirtualScreen
CGLFECGLTexImagePBuffer
CGLFECGLUpdateContext
CGLFEg1Accum
CGLFEg1ActiveStenci1FaceEXT
CGLFEg1ActiveTexture
CGLFEg1A1phaFunc

KGGLFEglArrayElement KGGLFEglArrayElement KGGLFEglAttachObjectARB KCGLFEglBegin KCGLFEglBeginQuery KCGLFEglBegindAttribLocationARB KCGLFEglBindAttribLocationARB KCGLFEglBindFramebufferEXT KCGLFEglBindProgramARB KCGLFEglBindProgramARB KCGLFEglBindRenderbufferEXT KCGLFEglBindTexture KCGLFEglBindVertexArrayEXT KCGLFEglBindVertexArrayEXT KCGLFEglBlendColor KCGLFEglBlendEquation KCGLFEglBlendEquation KCGLFEglBlendEquationSeparateEXT KCGLFEglBlendFunc KCGLFEglBlendFunc KCGLFEglBlendFunc KCGLFEglBlendFunc KCGLFEglBufferData KCGLFEglBufferData KCGLFEglBufferData KCGLFEglBufferSubData KCGLFEglBufferSubData KCGLFEglCallList KCGLFEglCallList KCGLFEglCallList KCGLFEglCarcColor KCGLFEglClearAccum KCGLFEglClearAccum KCGLFEglClearAccum KCGLFEglClearDepth	
KCGLFEg1Begin  KCGLFEg1Begin  KCGLFEg1BeginQuery  KCGLFEg1BindAttribLocationARB  KCGLFEg1BindBuffer  KCGLFEg1BindProgramARB  KCGLFEg1BindProgramARB  KCGLFEg1BindRenderbufferEXT  KCGLFEg1BindTexture  KCGLFEg1BindVertexArrayEXT  KCGLFEg1BindVertexArrayEXT  KCGLFEg1BlendColor  KCGLFEg1BlendEquation  KCGLFEg1BlendEquation  KCGLFEg1BlendEquationSeparateEXT  KCGLFEg1BlendFurc  KCGLFEg1BlendFurc  KCGLFEg1BufferData  KCGLFEg1BufferParameteriAPPLE  KCGLFEg1BufferSubData  KCGLFEg1CallList  KCGLFEg1ClearAccum  KCGLFEg1ClearAccum  KCGLFEg1ClearAccum	kCGLFEglAreTexturesResident
KCGLFEg1Begin KCGLFEg1BeginOuery KCGLFEg1BindAttribLocationARB KCGLFEg1BindBuffer KCGLFEg1BindFramebufferEXT KCGLFEg1BindProgramARB KCGLFEg1BindRenderbufferEXT KCGLFEg1BindTexture KCGLFEg1BindVertexArrayEXT KCGLFEg1BindOutertexArrayEXT KCGLFEg1BindDequation KCGLFEg1BlendColor KCGLFEg1BlendEquationSeparateEXT KCGLFEg1BlendFunc KCGLFEg1BlendFunc KCGLFEg1BlendFuncSeparate KCGLFEg1BlenfFerData KCGLFEg1BufferData KCGLFEg1BufferSubData KCGLFEg1BufferSubData KCGLFEg1CallList KCGLFEg1ClearAccum KCGLFEg1ClearAccum	kCGLFEglArrayElement
kCGLFEg1BeginQuery kCGLFEg1BindAttribLocationARB kCGLFEg1BindBuffer kCGLFEg1BindFramebufferEXT kCGLFEg1BindProgramARB kCGLFEg1BindRenderbufferEXT kCGLFEg1BindRenderbufferEXT kCGLFEg1BindVertexArrayEXT kCGLFEg1BindVertexArrayEXT kCGLFEg1BindOcolor kCGLFEg1BlendEquation kCGLFEg1BlendEquationSeparateEXT kCGLFEg1BlendFunc kCGLFEg1BlendFunc kCGLFEg1BlendFuncSeparate kCGLFEg1BufferData kCGLFEg1BufferParameteriAPPLE kCGLFEg1BufferSubData kCGLFEg1CallLists kCGLFEg1CallLists kCGLFEg1ClearAccum kCGLFEg1ClearAccum	kCGLFEg1AttachObjectARB
kCGLFEg1BindAttribLocationARB  kCGLFEg1BindBuffer  kCGLFEg1BindFramebufferEXT  kCGLFEg1BindProgramARB  kCGLFEg1BindRenderbufferEXT  kCGLFEg1BindTexture  kCGLFEg1BindVertexArrayEXT  kCGLFEg1BindColor  kCGLFEg1BlendEquation  kCGLFEg1BlendEquation  kCGLFEg1BlendEquationSeparateEXT  kCGLFEg1BlendFunc  kCGLFEg1BlendFuncSeparate  kCGLFEg1BlenfFuncSeparate  kCGLFEg1BufferData  kCGLFEg1BufferParameteriAPPLE  kCGLFEg1BufferSubData  kCGLFEg1CallList  kCGLFEg1CallLists  kCGLFEg1CallLists  kCGLFEg1ClearAccum  kCGLFEg1ClearAccum	kCGLFEglBegin
kCGLFEg1BindBuffer kCGLFEg1BindPramebufferEXT kCGLFEg1BindProgramARB kCGLFEg1BindRenderbufferEXT kCGLFEg1BindTexture kCGLFEg1BindVertexArrayEXT kCGLFEg1Bitmap kCGLFEg1Bitmap kCGLFEg1BiendColor kCGLFEg1BlendEquation kCGLFEg1BlendEquation kCGLFEg1BlendFunc kCGLFEg1BlendFunc kCGLFEg1BlendFunc kCGLFEg1BlendFuncSeparate kCGLFEg1BufferData kCGLFEg1BufferData kCGLFEg1BufferSubData kCGLFEg1BufferSubData kCGLFEg1CallList kCGLFEg1CallList kCGLFEg1CallList kCGLFEg1CallCar kCGLFEg1Clear kCGLFEg1Clear	kCGLFEglBeginQuery
kCGLFEg1BindProgramARB  kCGLFEg1BindRenderbufferEXT  kCGLFEg1BindTexture  kCGLFEg1BindVertexArrayEXT  kCGLFEg1BindColor  kCGLFEg1BlendColor  kCGLFEg1BlendEquation  kCGLFEg1BlendFunc  kCGLFEg1BlendFunc  kCGLFEg1BlendFunc  kCGLFEg1BlendFuncSeparate  kCGLFEg1BufferData  kCGLFEg1BufferParameteriAPPLE  kCGLFEg1BufferSubData  kCGLFEg1CallList  kCGLFEg1CallList  kCGLFEg1CallList  kCGLFEg1CheckFramebufferStatusEXT  kCGLFEg1Clear  kCGLFEg1ClearAccum  kCGLFEg1ClearAccum	kCGLFEglBindAttribLocationARB
KCGLFEg1BindProgramARBKCGLFEg1BindRenderbufferEXTKCGLFEg1BindTextureKCGLFEg1BindVertexArrayEXTKCGLFEg1BitmapKCGLFEg1BlendColorKCGLFEg1BlendEquationKCGLFEg1BlendEquationSeparateEXTKCGLFEg1BlendFuncKCGLFEg1BlendFuncSeparateKCGLFEg1BufferDataKCGLFEg1BufferParameteriAPPLEKCGLFEg1BufferSubDataKCGLFEg1CallListKCGLFEg1CallListsKCGLFEg1CheckFramebufferStatusEXTKCGLFEg1ClearKCGLFEg1ClearAccumKCGLFEg1ClearColor	kCGLFEglBindBuffer
kCGLFEglBindRenderbufferEXT  kCGLFEglBindTexture  kCGLFEglBindVertexArrayEXT  kCGLFEglBitmap  kCGLFEglBlendColor  kCGLFEglBlendEquation  kCGLFEglBlendEquationSeparateEXT  kCGLFEglBlendFunc  kCGLFEglBlendFuncSeparate  kCGLFEglBufferData  kCGLFEglBufferParameteriAPPLE  kCGLFEglBufferSubData  kCGLFEglCallList  kCGLFEglCallLists  kCGLFEglCheckFramebufferStatusEXT  kCGLFEglClear  kCGLFEglClearAccum  kCGLFEglClearColor	kCGLFEglBindFramebufferEXT
kCGLFEg1BindTexture kCGLFEg1BindVertexArrayEXT kCGLFEg1Bitmap kCGLFEg1BlendColor kCGLFEg1BlendEquation kCGLFEg1BlendEquationSeparateEXT kCGLFEg1BlendFunc kCGLFEg1BlendFuncSeparate kCGLFEg1BlendFuncSeparate kCGLFEg1BufferData kCGLFEg1BufferParameteriAPPLE kCGLFEg1BufferSubData kCGLFEg1CallList kCGLFEg1CallLists kCGLFEg1CallCearColor	kCGLFEglBindProgramARB
kCGLFEg1BindVertexArrayEXT kCGLFEg1Bitmap kCGLFEg1BlendColor kCGLFEg1BlendEquation kCGLFEg1BlendEquationSeparateEXT kCGLFEg1BlendFunc kCGLFEg1BlendFuncSeparate kCGLFEg1BlendFuncSeparate kCGLFEg1BufferData kCGLFEg1BufferParameteriAPPLE kCGLFEg1BufferSubData kCGLFEg1CallList kCGLFEg1CallList kCGLFEg1CallCiear kCGLFEg1Clear	kCGLFEglBindRenderbufferEXT
kCGLFEg1B1endColor kCGLFEg1B1endEquation kCGLFEg1B1endEquationSeparateEXT kCGLFEg1B1endFunc kCGLFEg1B1endFuncSeparate kCGLFEg1B1endFuncSeparate kCGLFEg1BufferData kCGLFEg1BufferParameteriAPPLE kCGLFEg1BufferSubData kCGLFEg1CallList kCGLFEg1CallList kCGLFEg1CallLists kCGLFEg1CallCar kCGLFEg1Clear kCGLFEg1Clear	kCGLFEglBindTexture
kCGLFEg1B1endEquation  kCGLFEg1B1endEquationSeparateEXT  kCGLFEg1B1endFunc  kCGLFEg1B1endFuncSeparate  kCGLFEg1BufferData  kCGLFEg1BufferParameteriAPPLE  kCGLFEg1BufferSubData  kCGLFEg1Ca11List  kCGLFEg1Ca11Lists  kCGLFEg1CanckFramebufferStatusEXT  kCGLFEg1Clear  kCGLFEg1ClearAccum	kCGLFEglBindVertexArrayEXT
kCGLFEg1B1endEquation  kCGLFEg1B1endEquationSeparateEXT  kCGLFEg1B1endFunc  kCGLFEg1B1endFuncSeparate  kCGLFEg1BufferData  kCGLFEg1BufferParameteriAPPLE  kCGLFEg1BufferSubData  kCGLFEg1CallList  kCGLFEg1CallLists  kCGLFEg1CallLists  kCGLFEg1CallCiear  kCGLFEg1Clear  kCGLFEg1ClearAccum  kCGLFEg1ClearColor	kCGLFEglBitmap
kCGLFEg1B1endEquationSeparateEXT  kCGLFEg1B1endFunc  kCGLFEg1B1endFuncSeparate  kCGLFEg1BufferData  kCGLFEg1BufferParameteriAPPLE  kCGLFEg1BufferSubData  kCGLFEg1CallList  kCGLFEg1CallLists  kCGLFEg1CheckFramebufferStatusEXT  kCGLFEg1Clear  kCGLFEg1ClearAccum  kCGLFEg1ClearColor	kCGLFEg1B1endColor
kCGLFEg1B1endFuncSeparate  kCGLFEg1BufferData  kCGLFEg1BufferParameteriAPPLE  kCGLFEg1BufferSubData  kCGLFEg1CallList  kCGLFEg1CallLists  kCGLFEg1CheckFramebufferStatusEXT  kCGLFEg1Clear  kCGLFEg1ClearAccum  kCGLFEg1ClearColor	kCGLFEg1B1endEquation
kCGLFEg1BlendFuncSeparate  kCGLFEg1BufferData  kCGLFEg1BufferParameteriAPPLE  kCGLFEg1BufferSubData  kCGLFEg1CallList  kCGLFEg1CallLists  kCGLFEg1CheckFramebufferStatusEXT  kCGLFEg1Clear  kCGLFEg1ClearAccum  kCGLFEg1ClearColor	kCGLFEg1B1endEquationSeparateEXT
kCGLFEg1BufferDatakCGLFEg1BufferParameteriAPPLEkCGLFEg1BufferSubDatakCGLFEg1CallListkCGLFEg1CallListskCGLFEg1CheckFramebufferStatusEXTkCGLFEg1ClearkCGLFEg1ClearAccumkCGLFEg1ClearColor	kCGLFEg1B1endFunc
kCGLFEg1BufferParameteriAPPLEkCGLFEg1BufferSubDatakCGLFEg1CallListkCGLFEg1CallListskCGLFEg1CheckFramebufferStatusEXTkCGLFEg1ClearkCGLFEg1ClearAccumkCGLFEg1ClearColor	kCGLFEg1B1endFuncSeparate
kCGLFEg1BufferSubData  kCGLFEg1CallList  kCGLFEg1CallLists  kCGLFEg1CheckFramebufferStatusEXT  kCGLFEg1Clear  kCGLFEg1ClearAccum  kCGLFEg1ClearColor	kCGLFEglBufferData
kCGLFEg1CallLists  kCGLFEg1CheckFramebufferStatusEXT  kCGLFEg1Clear  kCGLFEg1ClearAccum  kCGLFEg1ClearColor	kCGLFEglBufferParameteriAPPLE
kCGLFEg1CallLists  kCGLFEg1CheckFramebufferStatusEXT  kCGLFEg1Clear  kCGLFEg1ClearAccum  kCGLFEg1ClearColor	kCGLFEglBufferSubData
kCGLFEg1CheckFramebufferStatusEXT         kCGLFEg1Clear         kCGLFEg1ClearAccum         kCGLFEg1ClearColor	kCGLFEglCallList
kCGLFEg1Clear kCGLFEg1ClearAccum kCGLFEg1ClearColor	kCGLFEglCallLists
kCGLFEg1ClearAccum kCGLFEg1ClearColor	kCGLFEglCheckFramebufferStatusEXT
kCGLFEg1ClearColor	kCGLFEglClear
	kCGLFEglClearAccum
kCGLFEg1ClearDepth	kCGLFEglClearColor
	kCGLFEglClearDepth

CGLFEglClearIndex
CGLFEglClearStencil
CGLFEglClientActiveTexture
CGLFEglClipPlane
CGLFEglColor3b
CGLFEglColor3bv
CGLFEglColor3d
CGLFEglColor3dv
CGLFEglColor3f
CGLFEglColor3fv
CGLFEglColor3i
CGLFEglColor3iv
CGLFEglColor3s
CGLFEg1Color3sv
CGLFEg1Color3ub
CGLFEg1Color3ubv
CGLFEglColor3ui
CGLFEglColor3uiv
CGLFEglColor3us
CGLFEg1Color3usv
CGLFEg1Color4b
CGLFEglColor4bv
CGLFEg1Color4d
CGLFEg1Color4dv
CGLFEglColor4f
CGLFEglColor4fv
CGLFEg1Color4i
CGLFEglColor4iv

kCGLFEglColor4s
kCGLFEglColor4sv
kCGLFEglColor4ub
kCGLFEglColor4ubv
kCGLFEglColor4ui
kCGLFEglColor4uiv
kCGLFEglColor4us
kCGLFEglColor4usv
kCGLFEglColorMask
kCGLFEglColorMaterial
kCGLFEglColorPointer
kCGLFEglColorSubTable
kCGLFEglColorTable
kCGLFEglColorTableParameterfv
kCGLFEglColorTableParameteriv
kCGLFEglCombinerInputNV
kCGLFEg1CombinerOutputNV
kCGLFEg1CombinerParameterfNV
kCGLFEg1CombinerParameterfvNV
kCGLFEg1CombinerParameteriNV
kCGLFEg1CombinerParameterivNV
kCGLFEglCombinerStageParameterfvNV
kCGLFEglCompileShaderARB
kCGLFEglCompressedTexImage1D
kCGLFEglCompressedTexImage2D
kCGLFEglCompressedTexImage3D
kCGLFEglCompressedTexSubImage1D
kCGLFEglCompressedTexSubImage2D

kCGLFEg1CompressedTexSubImage3D
kCGLFEglConvolutionFilter1D
kCGLFEglConvolutionFilter2D
kCGLFEglConvolutionParameterf
kCGLFEglConvolutionParameterfv
kCGLFEglConvolutionParameteri
kCGLFEglConvolutionParameteriv
kCGLFEglCopyColorSubTable
kCGLFEg1CopyColorTable
kCGLFEglCopyConvolutionFilter1D
kCGLFEglCopyConvolutionFilter2D
kCGLFEg1CopyPixe1s
kCGLFEglCopyTexImage1D
kCGLFEg1CopyTexImage2D
kCGLFEg1CopyTexSubImage1D
kCGLFEg1CopyTexSubImage2D
kCGLFEg1CopyTexSubImage3D
kCGLFEg1CreateProgramObjectARB
kCGLFEg1CreateShaderObjectARB
kCGLFEg1Cu11Face
kCGLFEglDeleteBuffers
kCGLFEg1De1eteFencesAPPLE
kCGLFEglDeleteFramebuffersEXT
kCGLFEglDeleteLists
kCGLFEglDeleteObjectARB
kCGLFEg1De1eteProgramsARB
kCGLFEglDeleteQueries
kCGLFEglDeleteRenderbuffersEXT

kCGLFEg1DepthBoundsEXT  kCGLFEg1DepthBoundsEXT  kCGLFEg1DepthMask  kCGLFEg1DepthRange  kCGLFEg1DetachObjectARB  kCGLFEg1Disable  kCGLFEg1DisableClientState  kCGLFEg1DisableVertexAttribARB  kCGLFEg1DisableVertexAttribArrayARB  kCGLFEg1DrawArrays  kCGLFEg1DrawArrays  kCGLFEg1DrawBuffer  kCGLFEg1DrawBuffersARB  kCGLFEg1DrawElementArrayAPPLE  kCGLFEg1DrawElementS  kCGLFEg1DrawElementS  kCGLFEg1DrawRangeElementS  kCGLFEg1DrawRangeElementS  kCGLFEg1DrawRangeElementS  kCGLFEg1DrawRangeElementS  kCGLFEg1EdgeFlag  kCGLFEg1EdgeFlag  kCGLFEg1EdgeFlagv  kCGLFEg1EdgeFlagv  kCGLFEg1EdgeFlagv  kCGLFEg1EnableClientState  kCGLFEg1EnableClientState	100155 10 1 1 7 1
kCGLFEg1DepthBoundsEXT  kCGLFEg1DepthFunc  kCGLFEg1DepthMask  kCGLFEg1DepthRange  kCGLFEg1DetachObjectARB  kCGLFEg1Disable  kCGLFEg1Disable  kCGLFEg1DisableVertexAttribARB  kCGLFEg1DisableVertexAttribArrayARB  kCGLFEg1DrawArrays  kCGLFEg1DrawArrays  kCGLFEg1DrawBuffer  kCGLFEg1DrawBuffersARB  kCGLFEg1DrawElementArrayAPPLE  kCGLFEg1DrawPixels  kCGLFEg1DrawPixels  kCGLFEg1DrawRangeElementArrayAPPLE  kCGLFEg1DrawRangeElementArrayAPPLE  kCGLFEg1DrawRangeElementArrayAPPLE  kCGLFEg1DrawRangeElementArrayAPPLE  kCGLFEg1DrawRangeElementArrayAPPLE  kCGLFEg1EdgeFlag  kCGLFEg1EdgeFlag  kCGLFEg1EdgeFlag  kCGLFEg1EdgeFlagv  kCGLFEg1EdgeFlagv  kCGLFEg1EdgeFlagv  kCGLFEg1EnableVertexAttribARB	kCGLFEgIDeletelextures
kCGLFEg1DepthFunc  kCGLFEg1DepthMask  kCGLFEg1DepthRange  kCGLFEg1Disable  kCGLFEg1DisableClientState  kCGLFEg1DisableVertexAttribARB  kCGLFEg1DisableVertexAttribArrayARB  kCGLFEg1DrawBuffer  kCGLFEg1DrawBuffer  kCGLFEg1DrawBuffer  kCGLFEg1DrawBuffersARB  kCGLFEg1DrawBuffersARB  kCGLFEg1DrawBlementArrayAPPLE  kCGLFEg1DrawPixels  kCGLFEg1DrawRangeElementArrayAPPLE  kCGLFEg1DrawRangeElements  kCGLFEg1DrawRangeElementArrayAPPLE  kCGLFEg1DrawRangeElementArrayAPPLE  kCGLFEg1DrawRangeElementArrayAPPLE  kCGLFEg1DrawRangeElementArrayAPPLE  kCGLFEg1EdgeFlag  kCGLFEg1EdgeFlag  kCGLFEg1EdgeFlag  kCGLFEg1EdgeFlagv  kCGLFEg1EdgeFlagv  kCGLFEg1EdementPointerAPPLE  kCGLFEg1Enable  kCGLFEg1EnableVertexAttribARB	kCGLFEglDeleteVertexArraysEXT
kCGLFEg1DepthMask  kCGLFEg1DepthRange  kCGLFEg1DetachObjectARB  kCGLFEg1Disable  kCGLFEg1DisableClientState  kCGLFEg1DisableVertexAttribARB  kCGLFEg1DisableVertexAttribArrayARB  kCGLFEg1DrawBuffer  kCGLFEg1DrawBuffer  kCGLFEg1DrawBuffersARB  kCGLFEg1DrawBuffersARB  kCGLFEg1DrawElementArrayAPPLE  kCGLFEg1DrawPixe1s  kCGLFEg1DrawRangeElementArrayAPPLE  kCGLFEg1DrawRangeElements  kCGLFEg1DrawRangeElementArrayAPPLE  kCGLFEg1DrawRangeElementArrayAPPLE  kCGLFEg1DrawRangeElementArrayAPPLE  kCGLFEg1DrawRangeElementS  kCGLFEg1EdgeFlag  kCGLFEg1EdgeFlag  kCGLFEg1EdgeFlag  kCGLFEg1EdgeFlag  kCGLFEg1EdgeFlag  kCGLFEg1EdgeFlag  kCGLFEg1EdgeFlag  kCGLFEg1EdgeFlag  kCGLFEg1EdgeFlag  kCGLFEg1Enable  kCGLFEg1EnableClientState  kCGLFEg1EnableVertexAttribARB	kCGLFEg1DepthBoundsEXT
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kCGLFEglTexGend
kCGLFEglTexGendv
kCGLFEglTexGenf
kCGLFEglTexGenfv
kCGLFEglTexGeni
kCGLFEglTexGeniv
kCGLFEglTexImage1D
kCGLFEglTexImage2D
kCGLFEglTexImage3D
kCGLFEglTexParameterf
kCGLFEglTexParameterfv
kCGLFEglTexParameteri
kCGLFEglTexParameteriv
kCGLFEglTexSubImage1D
kCGLFEglTexSubImage2D

KCGLFEg1TexSubImage30  KCGLFEg1TexsureRangeAPPLE  KCGLFEg1Translated  KCGLFEg1Uniform1f4RB  KCGLFEg1Uniform1f4RB  KCGLFEg1Uniform1f4RB  KCGLFEg1Uniform1f4RB  KCGLFEg1Uniform2f4RB  KCGLFEg1Uniform2f4RB  KCGLFEg1Uniform2f4RB  KCGLFEg1Uniform2f4RB  KCGLFEg1Uniform2f4RB  KCGLFEg1Uniform2f4RB  KCGLFEg1Uniform3f4RB  KCGLFEg1Uniform3f4RB  KCGLFEg1Uniform3f4RB  KCGLFEg1Uniform3f4RB  KCGLFEg1Uniform3f4RB  KCGLFEg1Uniform3f4RB  KCGLFEg1Uniform4f4RB  KCGLFEg1Uniform4f4	
KCGLFEglTranslated  KCGLFEglUniformIfARB  KCGLFEglUniformIfARB  KCGLFEglUniformIfARB  KCGLFEglUniformIfARB  KCGLFEglUniformIfARB  KCGLFEglUniformIfARB  KCGLFEglUniform2fARB  KCGLFEglUniform2fARB  KCGLFEglUniform2fARB  KCGLFEglUniform2fARB  KCGLFEglUniform3fARB  KCGLFEglUniform4fARB  KCGLFEglUniform5fARB  KCGLFEglUniform5fARB  KCGLFEglUniform6fARB  KC	kCGLFEg1TexSubImage3D
KCGLFEglUniformIfARB  KCGLFEglUniformIfARB  KCGLFEglUniformIfARB  KCGLFEglUniformIiARB  KCGLFEglUniform2fARB  KCGLFEglUniform2fARB  KCGLFEglUniform2fARB  KCGLFEglUniform2fARB  KCGLFEglUniform2fARB  KCGLFEglUniform3fARB  KCGLFEglUniform3fARB  KCGLFEglUniform3fARB  KCGLFEglUniform3fARB  KCGLFEglUniform3fARB  KCGLFEglUniform3fARB  KCGLFEglUniform3fARB  KCGLFEglUniform3fARB  KCGLFEglUniform3fARB  KCGLFEglUniform4fARB	kCGLFEg1TextureRangeAPPLE
kCGLFEglUniform1fARB  kCGLFEglUniform1fARB  kCGLFEglUniform2fARB  kCGLFEglUniform2fARB  kCGLFEglUniform2fARB  kCGLFEglUniform2fARB  kCGLFEglUniform2fARB  kCGLFEglUniform2fARB  kCGLFEglUniform3fARB  kCGLFEglUniform3fARB  kCGLFEglUniform3fARB  kCGLFEglUniform3fARB  kCGLFEglUniform3fARB  kCGLFEglUniform3fARB  kCGLFEglUniform3fARB  kCGLFEglUniform3fARB  kCGLFEglUniform3fARB  kCGLFEglUniform4fARB	kCGLFEglTranslated
KCGLFEg1Uniform1fvARB  KCGLFEg1Uniform1ivARB  KCGLFEg1Uniform2fARB  KCGLFEg1Uniform2fARB  KCGLFEg1Uniform2fvARB  KCGLFEg1Uniform2fvARB  KCGLFEg1Uniform2ivARB  KCGLFEg1Uniform3ivARB  KCGLFEg1Uniform3fARB  KCGLFEg1Uniform3fvARB  KCGLFEg1Uniform3ivARB  KCGLFEg1Uniform3ivARB  KCGLFEg1Uniform4fARB  KCGLFEg1Uniform4fARB  KCGLFEg1Uniform4fARB  KCGLFEg1Uniform4ivARB  KCGLFEg1Uniform4ivARB  KCGLFEg1Uniform4ivARB  KCGLFEg1Uniform4ivARB  KCGLFEg1Uniform4ivARB  KCGLFEg1Uniform4ivARB  KCGLFEg1Uniform4fARB  KCGLFEg1Uniform4fix3fvARB  KCGLFEg1Uniform4fix3fvARB  KCGLFEg1Uniform4fix3fvARB  KCGLFEg1Uniform4fix3fvARB  KCGLFEg1Uniform4fix3fvARB  KCGLFEg1Uniform4fix3fvARB  KCGLFEg1Uniform4fix4fvARB	kCGLFEglTranslatef
kCGLFEglUniform1iARB  kCGLFEglUniform2fARB  kCGLFEglUniform2fARB  kCGLFEglUniform2fvARB  kCGLFEglUniform2iARB  kCGLFEglUniform3iARB  kCGLFEglUniform3fARB  kCGLFEglUniform3fARB  kCGLFEglUniform3iARB  kCGLFEglUniform3iARB  kCGLFEglUniform4iARB  kCGLFEglUniform4fvARB  kCGLFEglUniform4fvARB  kCGLFEglUniform4fvARB  kCGLFEglUniform4iARB  kCGLFEglUniform8atrix2fvARB  kCGLFEglUniform8atrix3fvARB  kCGLFEglUniform8atrix4fvARB	kCGLFEglUniform1fARB
KCGLFEg1Uniform2fARB   KCGLFEg1Uniform2fvARB   KCGLFEg1Uniform2fvARB   KCGLFEg1Uniform2ivARB   KCGLFEg1Uniform3fARB   KCGLFEg1Uniform3fvARB   KCGLFEg1Uniform3fvARB   KCGLFEg1Uniform3ivARB   KCGLFEg1Uniform3ivARB   KCGLFEg1Uniform4fARB   KCGLFEg1Uniform4fvARB   KCGLFEg1Uniform4fvARB   KCGLFEg1Uniform4ivARB   KCGLFEg1Uniform4ivARB   KCGLFEg1Uniform4ivARB   KCGLFEg1Uniform4ivARB   KCGLFEg1Uniform4ivARB   KCGLFEg1Uniform4ivARB   KCGLFEg1Uniform4ivARB   KCGLFEg1Uniform4ivARB   KCGLFEg1Uniform5ivARB   KCGLFEg1Uniform6ivArivAfvARB   KCGLFEg1ValidateProgram0bjectARB	kCGLFEg1Uniform1fvARB
kCGLFEg1Uniform2fvARB   kCGLFEg1Uniform2fvARB   kCGLFEg1Uniform2ivARB   kCGLFEg1Uniform3fvARB   kCGLFEg1Uniform3fvARB   kCGLFEg1Uniform3ivARB   kCGLFEg1Uniform3ivARB   kCGLFEg1Uniform4fvARB   kCGLFEg1Uniform4fvARB   kCGLFEg1Uniform4fvARB   kCGLFEg1Uniform4fvARB   kCGLFEg1Uniform4ivARB   kCGLFEg1Uniform5ivARB   kCGLFEg1Uniform6ivARARB   kCGLFEg1Uniform6ivARARB   kCGLFEg1Uniform6ivARARB   kCGLFEg1Uniform6ivARARB   kCGLFEg1Uniform6ivARARB   kCGLFEg1Uniform6ivARARB   kCGLFEg1Uniform6ivARARB   kCGLFEg1Uniform6ivARARB   kCGLFEg1Uniform6ivARARB	kCGLFEglUniform1iARB
kCGLFEglUniform2fvARB  kCGLFEglUniform2ivARB  kCGLFEglUniform3fvARB  kCGLFEglUniform3fvARB  kCGLFEglUniform3ivARB  kCGLFEglUniform3ivARB  kCGLFEglUniform4fvARB  kCGLFEglUniform4fvARB  kCGLFEglUniform4fvARB  kCGLFEglUniform4ivARB  kCGLFEglUniform5ivAfvARB  kCGLFEglUniform6ivAfvARB	kCGLFEglUniform1ivARB
kCGLFEglUniform2iARB  kCGLFEglUniform3fARB  kCGLFEglUniform3fARB  kCGLFEglUniform3fARB  kCGLFEglUniform3iARB  kCGLFEglUniform3iARB  kCGLFEglUniform4fARB  kCGLFEglUniform4fARB  kCGLFEglUniform4fVARB  kCGLFEglUniform4iARB  kCGLFEglUniform4iARB  kCGLFEglUniform4iARB  kCGLFEglUniform4iARB  kCGLFEglUniform4iARB  kCGLFEglUniform4iXARB  kCGLFEglUniform4iXARB  kCGLFEglUniform8atrix2fVARB  kCGLFEglUniform8atrix3fVARB  kCGLFEglUniform8atrix4fVARB  kCGLFEglUniform8atrix4fVARB  kCGLFEglUnipoxArraysEXT  kCGLFEglUnmapBuffer  kCGLFEglUseProgram0bjectARB  kCGLFEglValidateProgramARB	kCGLFEg1Uniform2fARB
kCGLFEglUniform2ivARB kCGLFEglUniform3fvARB kCGLFEglUniform3fvARB kCGLFEglUniform3ivARB kCGLFEglUniform3ivARB kCGLFEglUniform4fvARB kCGLFEglUniform4fvARB kCGLFEglUniform4ivARB kCGLFEglUniform4ivARB kCGLFEglUniform4ivARB kCGLFEglUniform4tivARB kCGLFEglUniform4tivARB kCGLFEglUniform4tivARB kCGLFEglUniform4tivARB kCGLFEglUniform8trix2fvARB kCGLFEglUniform8trix3fvARB kCGLFEglUniform8trix4fvARB kCGLFEglUniform8trix4fvARB kCGLFEglUniform8trix4fvARB kCGLFEglUniform8trix4fvARB kCGLFEglUniform8trix4fvARB	kCGLFEg1Uniform2fvARB
kCGLFEglUniform3fARB kCGLFEglUniform3iARB kCGLFEglUniform3iARB kCGLFEglUniform4fARB kCGLFEglUniform4fARB kCGLFEglUniform4fARB kCGLFEglUniform4fARB kCGLFEglUniform4iARB kCGLFEglUniform4iARB kCGLFEglUniform4iARB kCGLFEglUniformMatrix2fvARB kCGLFEglUniformMatrix3fvARB kCGLFEglUniformMatrix3fvARB kCGLFEglUniformMatrix4fvARB kCGLFEglUniformMatrix4fvARB kCGLFEglUniformMatrix4fvARB kCGLFEglUniformMatrix4fvARB kCGLFEglUniformMatrix4fvARB kCGLFEglUniformMatrix4fvARB	kCGLFEg1Uniform2iARB
kCGLFEg1Uniform3fvARB  kCGLFEg1Uniform3ivARB  kCGLFEg1Uniform4fARB  kCGLFEg1Uniform4fvARB  kCGLFEg1Uniform4fvARB  kCGLFEg1Uniform4iARB  kCGLFEg1Uniform4ivARB  kCGLFEg1UniformMatrix2fvARB  kCGLFEg1UniformMatrix3fvARB  kCGLFEg1UniformMatrix3fvARB  kCGLFEg1UniformMatrix4fvARB  kCGLFEg1UniformMatrix4fvARB  kCGLFEg1UniformMatrix4fvARB  kCGLFEg1UniformMatrix4fvARB  kCGLFEg1UniformMatrix4fvARB  kCGLFEg1UniformMatrix4fvARB	kCGLFEg1Uniform2ivARB
kCGLFEglUniform3ivARB  kCGLFEglUniform4fvARB  kCGLFEglUniform4fvARB  kCGLFEglUniform4iARB  kCGLFEglUniform4ivARB  kCGLFEglUniform4ivARB  kCGLFEglUniformMatrix2fvARB  kCGLFEglUniformMatrix3fvARB  kCGLFEglUniformMatrix3fvARB  kCGLFEglUniformMatrix4fvARB  kCGLFEglUniformMatrix4fvARB  kCGLFEglUniformMatrix4fvARB  kCGLFEglUniformMatrix4fvARB  kCGLFEglUniformMatrix4fvARB  kCGLFEglUniformMatrix4fvARB	kCGLFEglUniform3fARB
kCGLFEglUniform3ivARB  kCGLFEglUniform4fARB  kCGLFEglUniform4fvARB  kCGLFEglUniform4iARB  kCGLFEglUniform4ivARB  kCGLFEglUniformMatrix2fvARB  kCGLFEglUniformMatrix3fvARB  kCGLFEglUniformMatrix4fvARB  kCGLFEglUniformMatrix4fvARB  kCGLFEglUniockArraysEXT  kCGLFEglUnmapBuffer  kCGLFEglUseProgramObjectARB  kCGLFEglValidateProgramARB	kCGLFEg1Uniform3fvARB
kCGLFEglUniform4fARB  kCGLFEglUniform4fvARB  kCGLFEglUniform4iARB  kCGLFEglUniform4ivARB  kCGLFEglUniformMatrix2fvARB  kCGLFEglUniformMatrix3fvARB  kCGLFEglUniformMatrix4fvARB  kCGLFEglUniformMatrix4fvARB  kCGLFEglUnlockArraysEXT  kCGLFEglUnmapBuffer  kCGLFEglUseProgramObjectARB  kCGLFEglValidateProgramARB	kCGLFEg1Uniform3iARB
kCGLFEg1Uniform4fvARBkCGLFEg1Uniform4iARBkCGLFEg1Uniform4ivARBkCGLFEg1UniformMatrix2fvARBkCGLFEg1UniformMatrix3fvARBkCGLFEg1UniformMatrix4fvARBkCGLFEg1UnlockArraysEXTkCGLFEg1UnmapBufferkCGLFEg1UseProgramObjectARBkCGLFEg1ValidateProgramARB	kCGLFEg1Uniform3ivARB
kCGLFEglUniform4iARB  kCGLFEglUniform4ivARB  kCGLFEglUniformMatrix2fvARB  kCGLFEglUniformMatrix3fvARB  kCGLFEglUniformMatrix4fvARB  kCGLFEglUniockArraysEXT  kCGLFEglUnmapBuffer  kCGLFEglUseProgramObjectARB  kCGLFEglValidateProgramARB	kCGLFEg1Uniform4fARB
kCGLFEglUniform4ivARBkCGLFEglUniformMatrix2fvARBkCGLFEglUniformMatrix3fvARBkCGLFEglUniformMatrix4fvARBkCGLFEglUnlockArraysEXTkCGLFEglUnmapBufferkCGLFEglUseProgramObjectARBkCGLFEglValidateProgramARB	kCGLFEg1Uniform4fvARB
kCGLFEglUniformMatrix2fvARB  kCGLFEglUniformMatrix3fvARB  kCGLFEglUniformMatrix4fvARB  kCGLFEglUnlockArraysEXT  kCGLFEglUnmapBuffer  kCGLFEglUseProgramObjectARB  kCGLFEglValidateProgramARB	kCGLFEg1Uniform4iARB
kCGLFEglUniformMatrix3fvARBkCGLFEglUniformMatrix4fvARBkCGLFEglUnlockArraysEXTkCGLFEglUnmapBufferkCGLFEglUseProgramObjectARBkCGLFEglValidateProgramARB	kCGLFEglUniform4ivARB
kCGLFEglUniformMatrix4fvARB  kCGLFEglUnlockArraysEXT  kCGLFEglUnmapBuffer  kCGLFEglUseProgramObjectARB  kCGLFEglValidateProgramARB	kCGLFEglUniformMatrix2fvARB
kCGLFEglUnlockArraysEXT   kCGLFEglUnmapBuffer   kCGLFEglUseProgramObjectARB   kCGLFEglValidateProgramARB	kCGLFEglUniformMatrix3fvARB
kCGLFEglUnmapBuffer kCGLFEglUseProgramObjectARB kCGLFEglValidateProgramARB	kCGLFEglUniformMatrix4fvARB
kCGLFEglUseProgramObjectARB  kCGLFEglValidateProgramARB	kCGLFEg1UnlockArraysEXT
kCGLFEglValidateProgramARB	kCGLFEg1UnmapBuffer
	kCGLFEg1UseProgramObjectARB
kCGLFEglVertex2d	kCGLFEglValidateProgramARB
	kCGLFEg1Vertex2d

kCGLFEglVertex2dv
kCGLFEglVertex2f
kCGLFEglVertex2fv
kCGLFEglVertex2i
kCGLFEglVertex2iv
kCGLFEglVertex2s
kCGLFEglVertex2sv
kCGLFEglVertex3d
kCGLFEglVertex3dv
kCGLFEglVertex3f
kCGLFEglVertex3fv
kCGLFEglVertex3i
kCGLFEglVertex3iv
kCGLFEglVertex3s
kCGLFEglVertex3sv
kCGLFEglVertex4d
kCGLFEg1Vertex4dv
kCGLFEglVertex4f
kCGLFEglVertex4fv
kCGLFEglVertex4i
kCGLFEglVertex4iv
kCGLFEglVertex4s
kCGLFEglVertex4sv
kCGLFEglVertexArrayParameteriEXT
kCGLFEglVertexArrayRangeEXT
kCGLFEglVertexAttrib1dARB
kCGLFEglVertexAttrib1dvARB
kCGLFEglVertexAttrib1fARB

kCGLFEglVertexAttrib1fvARB
kCGLFEglVertexAttrib1sARB
kCGLFEglVertexAttrib1svARB
kCGLFEglVertexAttrib2dARB
kCGLFEglVertexAttrib2dvARB
kCGLFEglVertexAttrib2fARB
kCGLFEglVertexAttrib2fvARB
kCGLFEglVertexAttrib2sARB
kCGLFEglVertexAttrib2svARB
kCGLFEglVertexAttrib3dARB
kCGLFEglVertexAttrib3dvARB
kCGLFEglVertexAttrib3fARB
kCGLFEglVertexAttrib3fvARB
kCGLFEglVertexAttrib3sARB
kCGLFEglVertexAttrib3svARB
kCGLFEglVertexAttrib4bvARB
kCGLFEglVertexAttrib4dARB
kCGLFEglVertexAttrib4dvARB
kCGLFEglVertexAttrib4fARB
kCGLFEglVertexAttrib4fvARB
kCGLFEglVertexAttrib4ivARB
kCGLFEglVertexAttrib4nbvARB
kCGLFEglVertexAttrib4nivARB
kCGLFEglVertexAttrib4nsvARB
kCGLFEglVertexAttrib4nubARB
kCGLFEglVertexAttrib4nubvARB
kCGLFEglVertexAttrib4nuivARB
kCGLFEglVertexAttrib4nusvARB

kCGLFEglVertexAttrib4sARB
kCGLFEglVertexAttrib4svARB
kCGLFEglVertexAttrib4ubvARB
kCGLFEglVertexAttrib4uivARB
kCGLFEglVertexAttrib4usvARB
kCGLFEglVertexAttribPointerARB
kCGLFEglVertexBlendARB
kCGLFEglVertexPointer
kCGLFEglViewport
kCGLFEglWeightbvARB
kCGLFEglWeightdvARB
kCGLFEglWeightfvARB
kCGLFEglWeightivARB
kCGLFEglWeightPointerARB
kCGLFEglWeightsvARB
kCGLFEglWeightubvARB
kCGLFEglWeightuivARB
kCGLFEglWeightusvARB
kCGLFEg1WindowPos2d
kCGLFEg1WindowPos2dv
kCGLFEg1WindowPos2f
kCGLFEg1WindowPos2fv
kCGLFEg1WindowPos2i
kCGLFEg1WindowPos2iv
kCGLFEg1WindowPos2s
kCGLFEg1WindowPos2sv
kCGLFEg1WindowPos3d
kCGLFEg1WindowPos3dv

kCGLFEglWindowPos3f	
kCGLFEglWindowPos3fv	
kCGLFEg1WindowPos3i	
kCGLFEg1WindowPos3iv	
kCGLFEg1WindowPos3s	
kCGLFEg1WindowPos3sv	
kCGLFENumFunctions	

### CGLRenderers.h

#### **Data Types & Constants**

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

kCGLRendererATIRadeonX1000ID	Specifies the ATI Radio X1000 renderer.
kCGLRendererIntel900ID	Specifies the Intel GMA 900 renderer.

### CGLTypes.h

### **Data Types & Constants**

kCGLCEMPEngine	
kCGLCPCurrentRendererID	The current renderer ID. You can get this setting.
kCGLCPGPUFragmentProcessing	The CPU is currently processing fragments with the GPU. You can get this state.
kCGLCPGPUVertexProcessing	The GPU is currently processing vertices with the GPU. You can get this state.
kCGLCPReclaimResources	Enable or disable reclaiming resources.
kCGLRPGPUFragProcCapable	
kCGLRPGPUVertProcCapable	

### OpenGL.h

### **Functions**

All of the new functions in this header file are listed alphabetically, with links to documentation and abstracts, if available.

CGLLockContext	Locks a CGL rendering context.
CGLUnlockContext	Unlocks a CGL rendering context.

### gl.h

#### **Functions**

All of the new functions in this header file are listed alphabetically, with links to documentation and abstracts, if available.

glAttachShader	
glBindAttribLocation	
glBlendEquationSeparate	
glCompileShader	
glCreateProgram	
glCreateShader	
glDeleteProgram	
glDeleteShader	
glDetachShader	
glDisableVertexAttribArray	
glDrawBuffers	
glEnableVertexAttribArray	
glGetActiveAttrib	
glGetActiveUniform	
glGetAttachedShaders	
glGetAttribLocation	

glGetProgramInfoLog
glGetProgramiv
glGetShaderInfoLog
glGetShaderiv
glGetShaderSource
glGetUniformfv
glGetUniformiv
glGetUniformLocation
glGetVertexAttribdv
glGetVertexAttribfv
glGetVertexAttribiv
glGetVertexAttribPointerv
glIsProgram
glIsShader
glLinkProgram
glPointParameteri
glPointParameteriv
glShaderSource
glStencilFuncSeparate
glStencilMaskSeparate
glStencilOpSeparate
glUniform1f
glUniform1fv
glUniform1i
glUniform1iv
glUniform2f
glUniform2fv
glUniform2i

glUniform2iv
glUniform3f
glUniform3fv
glUniform3i
glUniform3iv
glUniform4f
glUniform4fv
glUniform4i
glUniform4iv
glUniformMatrix2fv
glUniformMatrix3fv
glUniformMatrix4fv
glUseProgram
glValidateProgram
glVertexAttrib1d
glVertexAttrib1dv
glVertexAttrib1f
glVertexAttrib1fv
glVertexAttrib1s
glVertexAttrib1sv
glVertexAttrib2d
glVertexAttrib2dv
glVertexAttrib2f
glVertexAttrib2fv
glVertexAttrib2s
glVertexAttrib2sv
glVertexAttrib3d
glVertexAttrib3dv

glVertexAttrib3f
glVertexAttrib3fv
glVertexAttrib3s
glVertexAttrib3sv
glVertexAttrib4bv
glVertexAttrib4d
glVertexAttrib4dv
glVertexAttrib4f
glVertexAttrib4fv
glVertexAttrib4iv
glVertexAttrib4Nbv
glVertexAttrib4Niv
glVertexAttrib4Nsv
glVertexAttrib4Nub
glVertexAttrib4Nubv
glVertexAttrib4Nuiv
glVertexAttrib4Nusv
glVertexAttrib4s
glVertexAttrib4sv
glVertexAttrib4ubv
glVertexAttrib4uiv
glVertexAttrib4usv
glVertexAttribPointer

### Data Types & Constants

GL_ACTIVE_ATTRIBUTE_MAX_LENGTH	
GL_ACTIVE_ATTRIBUTES	

GL_ACTIVE_UNIFORM_MAX_LENGTH	
GL_ACTIVE_UNIFORMS	
GL_ATTACHED_SHADERS	
GL_BLEND_EQUATION_ALPHA	
GL_BLEND_EQUATION_RGB	
GL_B00L	
GL_B00L_VEC2	
GL_B00L_VEC3	
GL_B00L_VEC4	
GL_COMPILE_STATUS	
GL_COORD_REPLACE	
GL_CURRENT_PROGRAM	
GL_CURRENT_VERTEX_ATTRIB	
GL_DELETE_STATUS	
GL_DRAW_BUFFERO	
GL_DRAW_BUFFER1	
GL_DRAW_BUFFER10	
GL_DRAW_BUFFER11	
GL_DRAW_BUFFER12	
GL_DRAW_BUFFER13	
GL_DRAW_BUFFER14	
GL_DRAW_BUFFER15	
GL_DRAW_BUFFER2	
GL_DRAW_BUFFER3	
GL_DRAW_BUFFER4	
GL_DRAW_BUFFER5	
GL_DRAW_BUFFER6	
GL_DRAW_BUFFER7	

GL_DRAW_BUFFER8	
GL_DRAW_BUFFER9	
GL_FLOAT_MAT2	
GL_FLOAT_MAT3	
GL_FLOAT_MAT4	
GL_FLOAT_VEC2	
GL_FLOAT_VEC3	
GL_FLOAT_VEC4	
GL_FRAGMENT_SHADER	
GL_FRAGMENT_SHADER_DERIVATIVE_HINT	
GL_INFO_LOG_LENGTH	
GL_INT_VEC2	
GL_INT_VEC3	
GL_INT_VEC4	
GL_LINK_STATUS	
GL_LOWER_LEFT	
GL_MAX_COMBINED_TEXTURE_IMAGE_UNITS	
GL_MAX_DRAW_BUFFERS	
GL_MAX_FRAGMENT_UNIFORM_COMPONENTS	
GL_MAX_TEXTURE_COORDS	
GL_MAX_TEXTURE_IMAGE_UNITS	
GL_MAX_VARYING_FLOATS	
GL_MAX_VERTEX_ATTRIBS	
GL_MAX_VERTEX_TEXTURE_IMAGE_UNITS	
GL_MAX_VERTEX_UNIFORM_COMPONENTS	
GL_POINT_SPRITE	
GL_POINT_SPRITE_COORD_ORIGIN	
GL_SAMPLER_1D	

GL_SAMPLER_1D_SHADOW
GL_SAMPLER_2D
GL_SAMPLER_2D_SHADOW
GL_SAMPLER_3D
GL_SAMPLER_CUBE
GL_SHADER_SOURCE_LENGTH
GL_SHADER_TYPE
GL_SHADING_LANGUAGE_VERSION
GL_STENCIL_BACK_FAIL
GL_STENCIL_BACK_FUNC
GL_STENCIL_BACK_PASS_DEPTH_FAIL
GL_STENCIL_BACK_PASS_DEPTH_PASS
GL_STENCIL_BACK_REF
GL_STENCIL_BACK_VALUE_MASK
GL_STENCIL_BACK_WRITEMASK
GL_TYPEDEFS_2_0
GL_UPPER_LEFT
GL_VALIDATE_STATUS
GL_VERSION_2_0
GL_VERTEX_ATTRIB_ARRAY_ENABLED
GL_VERTEX_ATTRIB_ARRAY_NORMALIZED
GL_VERTEX_ATTRIB_ARRAY_POINTER
GL_VERTEX_ATTRIB_ARRAY_SIZE
GL_VERTEX_ATTRIB_ARRAY_STRIDE
GL_VERTEX_ATTRIB_ARRAY_TYPE
GL_VERTEX_PROGRAM_POINT_SIZE
GL_VERTEX_PROGRAM_TWO_SIDE
GL_VERTEX_SHADER

GLchar

# glext.h

### **Functions**

glBindFramebufferEXT
glBindRenderbufferEXT
glBufferParameteriAPPLE
glCheckFramebufferStatusEXT
glDeleteFramebuffersEXT
glDeleteRenderbuffersEXT
glDrawBuffersARB
glFlushMappedBufferRangeAPPLE
glFramebufferRenderbufferEXT
glFramebufferTexture1DEXT
g1FramebufferTexture2DEXT
glFramebufferTexture3DEXT
glGenerateMipmapEXT
glGenFramebuffersEXT
glGenRenderbuffersEXT
glGetFramebufferAttachmentParameterivEXT
glGetRenderbufferParameterivEXT
glIsFramebufferEXT
glIsRenderbufferEXT
glMultiDrawElementArrayAPPLE
glMultiDrawRangeElementArrayAPPLE
g1ProgramEnvParameters4fvEXT

glProgramLocalParameters4fvEXT	
glRenderbufferStorageEXT	

### Data Types & Constants

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

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GL_ALPHA16F_ARB	
GL_ALPHA32F_ARB	
GL_ALPHA_FLOAT16_ATI	
GL_ALPHA_FLOAT32_ATI	
GL_APPLE_flush_buffer_range	
GL_ARB_draw_buffers	
GL_ARB_fragment_program_shadow	
GL_ARB_pixel_buffer_object	
GL_ARB_shader_texture_lod	
GL_ARB_texture_float	
GL_ARB_texture_rectangle	
GL_ATI_texture_float	
GL_BUFFER_FLUSHING_UNMAP_APPLE	
GL_BUFFER_SERIALIZED_MODIFY_APPLE	
GL_COLOR_ATTACHMENTO_EXT	
GL_COLOR_ATTACHMENT10_EXT	
GL_COLOR_ATTACHMENT11_EXT	
GL_COLOR_ATTACHMENT12_EXT	
GL_COLOR_ATTACHMENT13_EXT	
GL_COLOR_ATTACHMENT14_EXT	
GL_COLOR_ATTACHMENT15_EXT	
GL_COLOR_ATTACHMENT1_EXT	
GL_COLOR_ATTACHMENT2_EXT	
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GL_COLOR_ATTACHMENT3_EXT  GL_COLOR_ATTACHMENT4_EXT  GL_COLOR_ATTACHMENT5_EXT  GL_COLOR_ATTACHMENT6_EXT  GL_COLOR_ATTACHMENT7_EXT  GL_COLOR_ATTACHMENT8_EXT  GL_COLOR_ATTACHMENT9_EXT
GL_COLOR_ATTACHMENT5_EXT  GL_COLOR_ATTACHMENT6_EXT  GL_COLOR_ATTACHMENT7_EXT  GL_COLOR_ATTACHMENT8_EXT  GL_COLOR_ATTACHMENT9_EXT
GL_COLOR_ATTACHMENT6_EXT  GL_COLOR_ATTACHMENT7_EXT  GL_COLOR_ATTACHMENT8_EXT  GL_COLOR_ATTACHMENT9_EXT  GL_DEPTH24_STENCIL8_EXT
GL_COLOR_ATTACHMENT7_EXT  GL_COLOR_ATTACHMENT8_EXT  GL_COLOR_ATTACHMENT9_EXT  GL_DEPTH24_STENCIL8_EXT
GL_COLOR_ATTACHMENT8_EXT  GL_COLOR_ATTACHMENT9_EXT  GL_DEPTH24_STENCIL8_EXT
GL_COLOR_ATTACHMENT9_EXT  GL_DEPTH24_STENCIL8_EXT
GL_DEPTH24_STENCIL8_EXT
GL_DEPTH_ATTACHMENT_EXT
GL_DEPTH_STENCIL_EXT
GL_DRAW_BUFFERO_ARB
GL_DRAW_BUFFER10_ARB
GL_DRAW_BUFFER11_ARB
GL_DRAW_BUFFER12_ARB
GL_DRAW_BUFFER13_ARB
GL_DRAW_BUFFER14_ARB
GL_DRAW_BUFFER15_ARB
GL_DRAW_BUFFER1_ARB
GL_DRAW_BUFFER2_ARB
GL_DRAW_BUFFER3_ARB
GL_DRAW_BUFFER4_ARB
GL_DRAW_BUFFER5_ARB
GL_DRAW_BUFFER6_ARB
GL_DRAW_BUFFER7_ARB
GL_DRAW_BUFFER8_ARB
GL_DRAW_BUFFER9_ARB
GL_EXT_framebuffer_object
GL_EXT_gpu_program_parameters

GL_EXT_packed_depth_stencil
GL_EXT_texture_compression_dxt1
GL_FRAGMENT_SHADER_DERIVATIVE_HINT_ARB
GL_FRAMEBUFFER_ATTACHMENT_OBJECT_NAME_EXT
GL_FRAMEBUFFER_ATTACHMENT_OBJECT_TYPE_EXT
GL_FRAMEBUFFER_ATTACHMENT_TEXTURE_3D_ZOFFSET_EXT
GL_FRAMEBUFFER_ATTACHMENT_TEXTURE_CUBE_MAP_FACE_EXT
GL_FRAMEBUFFER_ATTACHMENT_TEXTURE_LEVEL_EXT
GL_FRAMEBUFFER_BINDING_EXT
GL_FRAMEBUFFER_COMPLETE_EXT
GL_FRAMEBUFFER_EXT
GL_FRAMEBUFFER_INCOMPLETE_ATTACHMENT_EXT
GL_FRAMEBUFFER_INCOMPLETE_DIMENSIONS_EXT
GL_FRAMEBUFFER_INCOMPLETE_DRAW_BUFFER_EXT
GL_FRAMEBUFFER_INCOMPLETE_FORMATS_EXT
GL_FRAMEBUFFER_INCOMPLETE_MISSING_ATTACHMENT_EXT
GL_FRAMEBUFFER_INCOMPLETE_READ_BUFFER_EXT
GL_FRAMEBUFFER_UNSUPPORTED_EXT
GL_INTENSITY16F_ARB
GL_INTENSITY32F_ARB
GL_INTENSITY_FLOAT16_ATI
GL_INTENSITY_FLOAT32_ATI
GL_INVALID_FRAMEBUFFER_OPERATION_EXT
GL_LUMINANCE16F_ARB
GL_LUMINANCE32F_ARB
GL_LUMINANCE_ALPHA16F_ARB
GL_LUMINANCE_ALPHA32F_ARB
GL_LUMINANCE_ALPHA_FLOAT16_ATI

GL_LUMINANCE_ALPHA_FLOAT32_ATI
GL_LUMINANCE_FLOAT16_ATI
GL_LUMINANCE_FLOAT32_ATI
GL_MAX_COLOR_ATTACHMENTS_EXT
GL_MAX_DRAW_BUFFERS_ARB
GL_MAX_PROGRAM_CALL_DEPTH_NV
GL_MAX_PROGRAM_EXEC_INSTRUCTIONS_NV
GL_MAX_PROGRAM_IF_DEPTH_NV
GL_MAX_PROGRAM_LOOP_COUNT_NV
GL_MAX_PROGRAM_LOOP_DEPTH_NV
GL_MAX_RECTANGLE_TEXTURE_SIZE_ARB
GL_MAX_RENDERBUFFER_SIZE_EXT
GL_NV_fragment_program2
GL_NV_fragment_program_option
GL_NV_vertex_program2_option
GL_NV_vertex_program3
GL_PIXEL_PACK_BUFFER_ARB
GL_PIXEL_PACK_BUFFER_BINDING_ARB
GL_PIXEL_UNPACK_BUFFER_ARB
GL_PIXEL_UNPACK_BUFFER_BINDING_ARB
GL_PROXY_TEXTURE_RECTANGLE_ARB
GL_RENDERBUFFER_ALPHA_SIZE_EXT
GL_RENDERBUFFER_BINDING_EXT
GL_RENDERBUFFER_BLUE_SIZE_EXT
GL_RENDERBUFFER_DEPTH_SIZE_EXT
GL_RENDERBUFFER_EXT
GL_RENDERBUFFER_GREEN_SIZE_EXT
GL_RENDERBUFFER_HEIGHT_EXT

GL_RENDERBUFFER_INTERNAL_FORMAT_EXT
GL_RENDERBUFFER_RED_SIZE_EXT
GL_RENDERBUFFER_STENCIL_SIZE_EXT
GL_RENDERBUFFER_WIDTH_EXT
GL_RGB16F_ARB
GL_RGB32F_ARB
GL_RGB_FLOAT16_ATI
GL_RGB_FLOAT32_ATI
GL_RGBA16F_ARB
GL_RGBA32F_ARB
GL_RGBA_FLOAT16_ATI
GL_RGBA_FLOAT32_ATI
GL_STENCIL_ATTACHMENT_EXT
GL_STENCIL_INDEX16_EXT
GL_STENCIL_INDEX1_EXT
GL_STENCIL_INDEX4_EXT
GL_STENCIL_INDEX8_EXT
GL_TEXTURE_ALPHA_TYPE_ARB
GL_TEXTURE_BINDING_RECTANGLE_ARB
GL_TEXTURE_BLUE_TYPE_ARB
GL_TEXTURE_DEPTH_TYPE_ARB
GL_TEXTURE_GREEN_TYPE_ARB
GL_TEXTURE_INTENSITY_TYPE_ARB
GL_TEXTURE_LUMINANCE_TYPE_ARB
GL_TEXTURE_RECTANGLE_ARB
GL_TEXTURE_RED_TYPE_ARB
GL_TEXTURE_STENCIL_SIZE_EXT
GL_UNSIGNED_INT_24_8_EXT

GL\_UNSIGNED\_NORMALIZED\_ARB

# 10.3 Symbol Changes

This article lists the symbols added to OpenGL. framework in Mac OS X v10.3.

# C Symbols

All of the header files with new symbols are listed alphabetically, with their new symbols described.

### CGLMacro.h

### **Data Types & Constants**

glAttachObjectARB	
glBeginQuery	
glBeginQueryARB	
glBindAttribLocationARB	
glBindBuffer	
glBindBufferARB	
glBlendEquationSeparateEXT	
glBufferData	
glBufferDataARB	
glBufferSubData	
glBufferSubDataARB	
glCompileShaderARB	
glCreateProgramObjectARB	
glCreateShaderObjectARB	
glDeleteBuffers	

glDeleteBuffersARB
glDeleteObjectARB
glDeleteQueries
glDeleteQueriesARB
glDepthBoundsEXT
glDetachObjectARB
glDisableVertexAttribAPPLE
glEnableVertexAttribAPPLE
glEndQuery
glEndQueryARB
glFinishRenderAPPLE
glFlushRenderAPPLE
glGenBuffers
glGenBuffersARB
glGenQueries
glGenQueriesARB
glGetActiveAttribARB
glGetActiveUniformARB
glGetAttachedObjectsARB
glGetAttribLocationARB
glGetBufferParameteriv
glGetBufferParameterivARB
glGetBufferPointerv
glGetBufferPointervARB
glGetBufferSubData
glGetBufferSubDataARB
glGetHandleARB
glGetInfoLogARB

glGetObjectParameterfvARB
glGetObjectParameterivARB
glGetQueryiv
glGetQueryivARB
glGetQueryObjectiv
glGetQueryObjectivARB
glGetQueryObjectuiv
glGetQueryObjectuivARB
glGetShaderSourceARB
glGetUniformfvARB
glGetUniformivARB
glGetUniformLocationARB
glIsBuffer
glIsBufferARB
glIsQuery
glIsQueryARB
glIsVertexAttribEnabledAPPLE
glLinkProgramARB
glMapBuffer
glMapBufferARB
glMapVertexAttrib1dAPPLE
glMapVertexAttrib1fAPPLE
glMapVertexAttrib2dAPPLE
glMapVertexAttrib2fAPPLE
glShaderSourceARB
glSwapAPPLE
glUniform1fARB
glUniform1fvARB

glUniform1iARB
glUniform1ivARB
glUniform2fARB
glUniform2fvARB
glUniform2iARB
glUniform2ivARB
glUniform3fARB
glUniform3fvARB
glUniform3iARB
glUniform3ivARB
glUniform4fARB
glUniform4fvARB
glUniform4iARB
glUniform4ivARB
glUniformMatrix2fvARB
glUniformMatrix3fvARB
glUniformMatrix4fvARB
glUnmapBuffer
glUnmapBufferARB
glUseProgramObjectARB
glValidateProgramARB

### CGLProfiler.h

### **Data Types & Constants**

kCGLGODisableBitmap	
kCGLGODisableCopyPixels	

kCGLGODisableCVARenderPath
kCGLGODisableDrawPixels
kCGLGODisableFragmentShaders_ATI
kCGLGODisableImmediateRenderPath
kCGLGODisableReadPixels
kCGLGODisableTexturing
kCGLGODisableVARRenderPath
kCGLG0EnableDebugAttach
kCGLGOForceSlowBitmapPath
kCGLGOForceSlowCopyPixelsPath
kCGLG0ForceSlowDrawPixelsPath
kCGLG0ForceSlowReadPixelsPath
kCGLG0ForceSlowRenderingPath
kCGLG0ForceSoftwareTexgen
kCGLGOForceSoftwareTransformLighting
kCGLGOForceSoftwareTRUFORM_ATI
kCGLGOForceSoftwareVertexShaders
kCGLGOForceWireframeRendering
kCGLGOMakeAllGLObjectsRequireUpdate
kCGLGOMakeAllGLStateRequireUpdate
kCGLG00utlineCopyPixelsBuffer
kCGLG00utlineCopyPixelsBufferColor
kCGLG00utlineDrawPixelsBuffer
kCGLG00utlineDrawPixelsBufferColor
kCGLG00utlineReadPixelsBuffer
kCGLG00utlineReadPixelsBufferColor
kCGLG00utlineTexture
kCGLG00utlineTextureColor

kCGLGOSubmitOnClearCommand	
kCGLGOSubmitOnCVARenderCommand	
kCGLGOSubmitOnImmediateRenderCommand	
kCGLGOSubmitOnVAORenderCommand	

### CGLRenderers.h

#### **Data Types & Constants**

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

kCGLRendererATIRadeon9700ID	Specifies the ATI Radeon 9700 renderer.
kCGLRendererGeForceFXID	Specifies the NVIDIA GeForceFX renderer.
kCGLRendererGenericFloatID	Specifies the floating-point software renderer.
kCGLRendererVTBladeXP2ID	Specifies the VTBook renderer.

# CGLTypes.h

#### **Data Types & Constants**

CGLPBufferObj	Represents a pointer to an opaque pixel buffer object.
kCGLCEDisplayListOptimization	If disabled, turns off optimization for the display list.
kCGLCESurfaceBackingSize	If enabled, overrides the surface backing size.
kCGLCPDispatchTableSize	Set or get the dispatch table size.
kCGLCPSurfaceBackingSize	Set or get the height and width of the back buffer. You can use this to let the system scale an image automatically on swap to a variable size buffer. The back buffer size remains fixed at the size that you set up regardless of whether the image is resized to display larger onscreen.
kCGLCPSurfaceSurfaceVolatile	Set or get the volatile state of a surface.
kCGLCPSurfaceTexture	Set the surface texture. Supply a surface ID, target, and internal format.

kCGLMultisampleBit	Specifies multisampling.
kCGLNoError	No error.
kCGLPFAMultisample	This constant is a Boolean attribute. If it is present in the attributes array, specifies a hint to the driver to prefer multisampling. Do not supply a value with this constant because its presence in the array implies true.
kCGLPFAPBuffer	This constant is a Boolean attribute. If it is present in the attributes array, format can be used to render to a pixel buffer. Do not supply a value with this constant because its presence in the array implies true.
kCGLPFARemotePBuffer	This constant is a Boolean attribute. If it is present in the attributes array, format can be used to render offline to a pixel buffer. Do not supply a value with this constant because its presence in the array implies true.
kCGLPFASampleAlpha	This constant is a Boolean attribute. If it is present in the attributes array, request alpha filtering when multisampling. Do not supply a value with this constant because its presence in the array implies true.
kCGLPFASupersample	This constant is a Boolean attribute. If it is present in the attributes array, specifies a hint to the driver to prefer supersampling. Do not supply a value with this constant because its presence in the array implies true.
kCGLRGBA16161616Bit	Specifies a format that has 64 bits per pixel with an ARGB channel layout, and the channels located in the following bits: R=63:48, G=47:32, B=31:16, A=15:0.
kCGLRGBAFloat128Bit	Specifies a format that has 128 bits per pixel with an ARGB IEEE floating-point channel layout.
kCGLRGBAFloat256Bit	Specifies a format that has 256 bits per pixel with an ARGB IEEE double channel layout.
kCGLRGBAFloat64Bit	Specifies a format that has 64 bits per pixel with an ARGB half floating-point channel layout.
kCGLRGBFloat128Bit	Specifies a format that has 128 bits per pixel with an RGB IEEE floating-point channel layout.
kCGLRGBFloat256Bit	Specifies a format that has 256 bits per pixel with an RGB IEEE double channel layout.
kCGLRGBFloat64Bit	Specifies a format that has 64 bits per pixel with an RGB half floating-point channel layout.
kCGLRPSampleAlpha	If true, there is support for alpha sampling.
kCGLRPSampleModes	A bit field of supported sample modes.

kCGLSupersampleBit	Specifies supersampling.	
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# OpenGL.h

#### **Functions**

All of the new functions in this header file are listed alphabetically, with links to documentation and abstracts, if available.

CGLCreatePBuffer	Creates a pixel buffer of the specified size, compatible with the specified texture target.
CGLDescribePBuffer	Retrieves information that describes the specified pixel buffer object.
CGLDestroyPBuffer	Releases the resources associated with a pixel buffer object.
CGLGetPBuffer	Retrieves a pixel buffer and its parameters for a specified rendering context.
CGLSetPBuffer	Attaches a pixel buffer object to a rendering context.
CGLTexImagePBuffer	Binds the contents of a pixel buffer to a data source for a texture object.

### Data Types & Constants

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

CGL_VERSION_1_1		
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# gl.h

#### **Functions**

glBeginQuery	
glBindBuffer	
glBufferData	
glBufferSubData	

glDeleteBuffers
glDeleteQueries
glEndQuery
glGenBuffers
glGenQueries
glGetBufferParameteriv
glGetBufferPointerv
glGetBufferSubData
glGetQueryiv
glGetQueryObjectiv
glGetQueryObjectuiv
glIsBuffer
glIsQuery
glMapBuffer
glUnmapBuffer

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

GL_ARRAY_BUFFER
GL_ARRAY_BUFFER_BINDING
GL_BUFFER_ACCESS
GL_BUFFER_MAP_POINTER
GL_BUFFER_MAPPED
GL_BUFFER_SIZE
GL_BUFFER_USAGE
GL_COLOR_ARRAY_BUFFER_BINDING
GL_CURRENT_FOG_COORD
GL_CURRENT_QUERY

GL_DYNAMIC_COPY
GL_DYNAMIC_DRAW
GL_DYNAMIC_READ
GL_EDGE_FLAG_ARRAY_BUFFER_BINDING
GL_ELEMENT_ARRAY_BUFFER
GL_ELEMENT_ARRAY_BUFFER_BINDING
GL_FOG_COORD
GL_FOG_COORD_ARRAY
GL_FOG_COORD_ARRAY_BUFFER_BINDING
GL_FOG_COORD_ARRAY_POINTER
GL_FOG_COORD_ARRAY_STRIDE
GL_FOG_COORD_ARRAY_TYPE
GL_FOG_COORD_SRC
GL_FOG_COORDINATE_ARRAY_BUFFER_BINDING
GL_INDEX_ARRAY_BUFFER_BINDING
GL_NORMAL_ARRAY_BUFFER_BINDING
GL_QUERY_COUNTER_BITS
GL_QUERY_RESULT
GL_QUERY_RESULT_AVAILABLE
GL_READ_ONLY
GL_READ_WRITE
GL_SAMPLES_PASSED
GL_SECONDARY_COLOR_ARRAY_BUFFER_BINDING
GL_SRCO_ALPHA
GL_SRCO_RGB
GL_SRC1_ALPHA
GL_SRC1_RGB
GL_SRC2_ALPHA

GL_SRC2_RGB	
GL_SRC3_ALPHA	
GL_SRC3_RGB	
GL_SRC4_ALPHA	
GL_SRC4_RGB	
GL_SRC5_ALPHA	
GL_SRC5_RGB	
GL_SRC6_ALPHA	
GL_SRC6_RGB	
GL_SRC7_ALPHA	
GL_SRC7_RGB	
GL_STATIC_COPY	
GL_STATIC_DRAW	
GL_STATIC_READ	
GL_STREAM_COPY	
GL_STREAM_DRAW	
GL_STREAM_READ	
GL_TEXTURE_COORD_ARRAY_BUFFER_BINDING	
GL_VERSION_1_5	
GL_VERTEX_ARRAY_BUFFER_BINDING	
GL_VERTEX_ATTRIB_ARRAY_BUFFER_BINDING	
GL_WEIGHT_ARRAY_BUFFER_BINDING	
GL_WRITE_ONLY	
GLintptr	
GLsizeiptr	

# glext.h

### **Functions**

glAttachObjectARB
glBeginQueryARB
glBindAttribLocationARB
glBindBufferARB
glBlendEquationSeparateEXT
glBufferDataARB
glBufferSubDataARB
glCompileShaderARB
glCreateProgramObjectARB
glCreateShaderObjectARB
glDeleteBuffersARB
glDeleteObjectARB
glDeleteQueriesARB
glDepthBoundsEXT
glDetachObjectARB
glEndQueryARB
glFinishRenderAPPLE
glFlushRenderAPPLE
glGenBuffersARB
glGenQueriesARB
glGetActiveAttribARB
glGetActiveUniformARB
glGetAttachedObjectsARB
glGetAttribLocationARB

glGetBufferParameterivARB
glGetBufferPointervARB
glGetBufferSubDataARB
glGetHandleARB
glGetInfoLogARB
glGetObjectParameterfvARB
glGetObjectParameterivARB
glGetQueryivARB
glGetQueryObjectivARB
glGetQueryObjectuivARB
glGetShaderSourceARB
glGetUniformfvARB
glGetUniformivARB
glGetUniformLocationARB
glIsBufferARB
glIsQueryARB
glLinkProgramARB
glMapBufferARB
glShaderSourceARB
glSwapAPPLE
glUniform1fARB
glUniform1fvARB
glUniform1iARB
glUniform1ivARB
glUniform2fARB
glUniform2fvARB
glUniform2iARB
glUniform2ivARB

glUniform3fARB	
glUniform3fvARB	
glUniform3iARB	
g1Uniform3ivARB	
glUniform4fARB	
glUniform4fvARB	
glUniform4iARB	
glUniform4ivARB	
glUniformMatrix2fvARB	
glUniformMatrix3fvARB	
glUniformMatrix4fvARB	
glUnmapBufferARB	
glUseProgramObjectARB	
glValidateProgramARB	

GL_APPLE_flush_render	
GL_APPLE_pixel_buffer	
GL_ARB_fragment_shader	
GL_ARB_occlusion_query	
GL_ARB_point_sprite	
GL_ARB_shader_objects	
GL_ARB_shading_language_100	
GL_ARB_texture_non_power_of_two	
GL_ARB_vertex_buffer_object	
GL_ARB_vertex_shader	
GL_ARRAY_BUFFER_ARB	

GL_ARRAY_BUFFER_BINDING_ARB
GL_ATI_texture_compression_3dc
GL_BLEND_EQUATION_ALPHA_EXT
GL_BLEND_EQUATION_RGB_EXT
GL_B00L_ARB
GL_BOOL_VEC2_ARB
GL_BOOL_VEC3_ARB
GL_BOOL_VEC4_ARB
GL_BUFFER_ACCESS_ARB
GL_BUFFER_MAP_POINTER_ARB
GL_BUFFER_MAPPED_ARB
GL_BUFFER_OBJECT_APPLE
GL_BUFFER_SIZE_ARB
GL_BUFFER_USAGE_ARB
GL_COLOR_ARRAY_BUFFER_BINDING_ARB
GL_COLOR_MATRIX_SGI
GL_COLOR_MATRIX_STACK_DEPTH_SGI
GL_COMPRESSED_LUMINANCE_ALPHA_3DC_ATI
GL_COORD_REPLACE_ARB
GL_CURRENT_QUERY_ARB
GL_DEPTH_BOUNDS_EXT
GL_DEPTH_BOUNDS_TEST_EXT
GL_DYNAMIC_COPY_ARB
GL_DYNAMIC_DRAW_ARB
GL_DYNAMIC_READ_ARB
GL_EDGE_FLAG_ARRAY_BUFFER_BINDING_ARB
GL_ELEMENT_ARRAY_BUFFER_ARB
GL_ELEMENT_ARRAY_BUFFER_BINDING_ARB

GL_ELEMENT_BUFFER_BINDING_APPLE
GL_EXT_blend_equation_separate
GL_EXT_depth_bounds_test
GL_EXT_separate_specular_color
GL_EXT_texture_mirror_clamp
GL_FLOAT_MAT2_ARB
GL_FLOAT_MAT3_ARB
GL_FLOAT_MAT4_ARB
GL_FLOAT_VEC2_ARB
GL_FLOAT_VEC3_ARB
GL_FLOAT_VEC4_ARB
GL_FOG_COORD_ARRAY_BUFFER_BINDING_ARB
GL_FOG_COORDINATE_ARRAY_BUFFER_BINDING_ARB
GL_FRAGMENT_SHADER_ARB
GL_HALF_APPLE
GL_INDEX_ARRAY_BUFFER_BINDING_ARB
GL_INT_VEC2_ARB
GL_INT_VEC3_ARB
GL_INT_VEC4_ARB
GL_LIGHT_MODEL_COLOR_CONTROL_EXT
GL_MAX_COLOR_MATRIX_STACK_DEPTH_SGI
GL_MAX_COMBINED_TEXTURE_IMAGE_UNITS_ARB
GL_MAX_FRAGMENT_UNIFORM_COMPONENTS_ARB
GL_MAX_VARYING_FLOATS_ARB
GL_MAX_VERTEX_TEXTURE_IMAGE_UNITS_ARB
GL_MAX_VERTEX_UNIFORM_COMPONENTS_ARB
GL_MIN_PBUFFER_VIEWPORT_DIMS_APPLE
GL_MIRROR_CLAMP_EXT

GL_MIRROR_CLAMP_TO_BORDER_EXT
GL_MIRROR_CLAMP_TO_EDGE_EXT
GL_NORMAL_ARRAY_BUFFER_BINDING_ARB
GL_OBJECT_ACTIVE_ATTRIBUTE_MAX_LENGTH_ARB
GL_OBJECT_ACTIVE_ATTRIBUTES_ARB
GL_OBJECT_ACTIVE_UNIFORM_MAX_LENGTH_ARB
GL_OBJECT_ACTIVE_UNIFORMS_ARB
GL_OBJECT_ATTACHED_OBJECTS_ARB
GL_OBJECT_COMPILE_STATUS_ARB
GL_OBJECT_DELETE_STATUS_ARB
GL_OBJECT_INFO_LOG_LENGTH_ARB
GL_OBJECT_LINK_STATUS_ARB
GL_OBJECT_SHADER_SOURCE_LENGTH_ARB
GL_OBJECT_SUBTYPE_ARB
GL_OBJECT_TYPE_ARB
GL_OBJECT_VALIDATE_STATUS_ARB
GL_POINT_SPRITE_ARB
GL_POST_COLOR_MATRIX_ALPHA_BIAS_SGI
GL_POST_COLOR_MATRIX_ALPHA_SCALE_SGI
GL_POST_COLOR_MATRIX_BLUE_BIAS_SGI
GL_POST_COLOR_MATRIX_BLUE_SCALE_SGI
GL_POST_COLOR_MATRIX_GREEN_BIAS_SGI
GL_POST_COLOR_MATRIX_GREEN_SCALE_SGI
GL_POST_COLOR_MATRIX_RED_BIAS_SGI
GL_POST_COLOR_MATRIX_RED_SCALE_SGI
GL_PROGRAM_OBJECT_ARB
GL_QUERY_COUNTER_BITS_ARB
GL_QUERY_RESULT_ARB

GL_QUERY_RESULT_AVAILABLE_ARB
GL_READ_ONLY_ARB
GL_READ_WRITE_ARB
GL_SAMPLER_1D_ARB
GL_SAMPLER_1D_SHADOW_ARB
GL_SAMPLER_2D_ARB
GL_SAMPLER_2D_RECT_ARB
GL_SAMPLER_2D_RECT_SHADOW_ARB
GL_SAMPLER_2D_SHADOW_ARB
GL_SAMPLER_3D_ARB
GL_SAMPLER_CUBE_ARB
GL_SAMPLES_PASSED_ARB
GL_SECONDARY_COLOR_ARRAY_BUFFER_BINDING_ARB
GL_SEPARATE_SPECULAR_COLOR_EXT
GL_SGI_color_matrix
GL_SHADER_OBJECT_ARB
GL_SINGLE_COLOR_EXT
GL_STATIC_COPY_ARB
GL_STATIC_DRAW_ARB
GL_STATIC_READ_ARB
GL_STORAGE_CLIENT_APPLE
GL_STREAM_COPY_ARB
GL_STREAM_DRAW_ARB
GL_STREAM_READ_ARB
GL_TEXTURE_COORD_ARRAY_BUFFER_BINDING_ARB
GL_TEXTURE_MINIMIZE_STORAGE_APPLE
GL_VERTEX_ARRAY_BUFFER_BINDING_ARB
GL_VERTEX_ATTRIB_ARRAY_BUFFER_BINDING_ARB

GL_VERTEX_ATTRIB_MAP1_APPLE	
GL_VERTEX_ATTRIB_MAP1_COEFF_APPLE	
GL_VERTEX_ATTRIB_MAP1_DOMAIN_APPLE	
GL_VERTEX_ATTRIB_MAP1_ORDER_APPLE	
GL_VERTEX_ATTRIB_MAP1_SIZE_APPLE	
GL_VERTEX_ATTRIB_MAP2_APPLE	
GL_VERTEX_ATTRIB_MAP2_COEFF_APPLE	
GL_VERTEX_ATTRIB_MAP2_DOMAIN_APPLE	
GL_VERTEX_ATTRIB_MAP2_ORDER_APPLE	
GL_VERTEX_ATTRIB_MAP2_SIZE_APPLE	
GL_VERTEX_SHADER_ARB	
GL_WEIGHT_ARRAY_BUFFER_BINDING_ARB	
GL_WRITE_ONLY_ARB	
GLcharARB	
GLhandleARB	
GLintptrARB	
GLsizeiptrARB	

# **10.2 Symbol Changes**

This article lists the symbols added to OpenGL. framework in Mac OS X v10.2.

# C Symbols

All of the header files with new symbols are listed alphabetically, with their new symbols described.

### CGLMacro.h

#### **Data Types & Constants**

glActiveStencilFaceEXT	
glBindProgramARB	
glBindVertexArrayAPPLE	
glBlendEquationSeparateATI	
glBlendFuncSeparate	
glBlendFuncSeparateEXT	
glColorSubTable	
glColorSubTableEXT	
glColorTable	
glColorTableEXT	
glColorTableParameterfv	
glColorTableParameteriv	
glCombinerInputNV	
glCombinerOutputNV	
glCombinerParameterfNV	

glCombinerParameterfvNV
glCombinerParameteriNV
glCombinerParameterivNV
glCombinerStageParameterfvNV
glConvolutionFilter1D
glConvolutionFilter2D
glConvolutionParameterf
glConvolutionParameterfv
glConvolutionParameteri
glConvolutionParameteriv
glCopyColorSubTable
glCopyColorTable
glCopyConvolutionFilter1D
glCopyConvolutionFilter2D
glCopyTexSubImage3D
glDeleteFencesAPPLE
glDeleteProgramsARB
glDeleteVertexArraysAPPLE
glDisableVertexAttribARB
glDisableVertexAttribArrayARB
glDrawElementArrayAPPLE
glDrawRangeElementArrayAPPLE
glDrawRangeElementsEXT
glElementPointerAPPLE
glEnableVertexAttribARB
glEnableVertexAttribArrayARB
glFinalCombinerInputNV
glFinishFenceAPPLE

glFinishObjectAPPLE
glFlushVertexArrayRangeAPPLE
glFogCoordd
glFogCoorddEXT
glFogCoorddv
glFogCoorddvEXT
glFogCoordf
glFogCoordfEXT
glFogCoordfv
glFogCoordfvEXT
glFogCoordPointer
glFogCoordPointerEXT
glGenFencesAPPLE
glGenProgramsARB
glGenVertexArraysAPPLE
glGetColorTable
glGetColorTableEXT
glGetColorTableParameterfv
glGetColorTableParameterfvEXT
glGetColorTableParameteriv
glGetColorTableParameterivEXT
glGetCombinerInputParameterfvNV
glGetCombinerInputParameterivNV
glGetCombinerOutputParameterfvNV
glGetCombinerOutputParameterivNV
glGetCombinerStageParameterfvNV
glGetConvolutionFilter
glGetConvolutionParameterfv

glGetConvolutionParameteriv	
glGetFinalCombinerInputParameterfvNV	
glGetHistogram	
glGetHistogramParameterfv	
glGetHistogramParameteriv	
glGetMinmax	
glGetMinmaxParameterfv	
glGetMinmaxParameteriv	
glGetProgramEnvParameterdvARB	
glGetProgramEnvParameterfvARB	
glGetProgramivARB	
glGetProgramLocalParameterdvARB	
glGetProgramLocalParameterfvARB	
glGetProgramStringARB	
glGetSeparableFilter	
glGetTexParameterPointervAPPLE	
glGetVertexAttribdvARB	
glGetVertexAttribfvARB	
glGetVertexAttribivARB	
glGetVertexAttribPointervARB	
glHistogram	
glIsFenceAPPLE	
glIsProgramARB	
glIsVertexArrayAPPLE	
glIsVertexAttribEnabledARB	
glMapVertexAttrib1dARB	
glMapVertexAttrib1fARB	
glMapVertexAttrib2dARB	

glMultiDrawArrays glMultiDrawArraysEXT glMultiDrawElements glMultiDrawElementsEXT glPNTrianglesfATI glPNTrianglesfATIX glPNTrianglesiATI glPNTrianglesiATI glPNTrianglesiATI glPNTrianglesiATI glPNTrianglesiATIX glPNTrianglesiATIX glPointParameterf glPointParameterf glPointParameterfARB glPointParameterfvARB
glMultiDrawArraysEXT  glMultiDrawElements  glMultiDrawElementsEXT  glPNTrianglesfATI  glPNTrianglesfATIX  glPNTrianglesiATIX  glPNTrianglesiATIX  glPNTrianglesiATIX  glPointParameterf  glPointParameterf  glPointParameterfv
glMultiDrawElements glMultiDrawElementsEXT glPNTrianglesfATI glPNTrianglesfATIX glPNTrianglesiATI glPNTrianglesiATI glPNTrianglesiATIX glPointParameterf glPointParameterfARB glPointParameterfv
glPNTrianglesfATI  glPNTrianglesfATIX  glPNTrianglesiATIX  glPNTrianglesiATIX  glPNTrianglesiATIX  glPointParameterf  glPointParameterfARB  glPointParameterfv
glPNTrianglesfATIX  glPNTrianglesiATIX  glPNTrianglesiATIX  glPNTrianglesiATIX  glPointParameterf  glPointParameterfARB  glPointParameterfv
glPNTrianglesiATIX  glPNTrianglesiATIX  glPointParameterf  glPointParameterfARB  glPointParameterfv
glPNTrianglesiATIX  glPointParameterf  glPointParameterfARB  glPointParameterfv
glPNTrianglesiATIX  glPointParameterf  glPointParameterfARB  glPointParameterfv
glPointParameterf glPointParameterfARB glPointParameterfv
glPointParameterfARB glPointParameterfv
glPointParameterfv
glPointParameterfvARB
glPointParameteriNV
glPointParameterivNV
g1ProgramEnvParameter4dARB
g1ProgramEnvParameter4dvARB
g1ProgramEnvParameter4fARB
g1ProgramEnvParameter4fvARB
glProgramLocalParameter4dARB
glProgramLocalParameter4dvARB
glProgramLocalParameter4fARB
glProgramLocalParameter4fvARB
glProgramStringARB
glResetHistogram
glResetMinmax
glSecondaryColor3b

SecondaryColor3bEXT
lSecondaryColor3bv
SecondaryColor3bvEXT
SecondaryColor3d
SecondaryColor3dEXT
lSecondaryColor3dv
SecondaryColor3dvEXT
SecondaryColor3f
SecondaryColor3fEXT
lSecondaryColor3fv
SecondaryColor3fvEXT
SecondaryColor3i
SecondaryColor3iEXT
SecondaryColor3iv
SecondaryColor3ivEXT
lSecondaryColor3s
SecondaryColor3sEXT
lSecondaryColor3sv
SecondaryColor3svEXT
SecondaryColor3ub
SecondaryColor3ubEXT
SecondaryColor3ubv
SecondaryColor3ubvEXT
lSecondaryColor3ui
SecondaryColor3uiEXT
l SecondaryColor3uiv
SecondaryColor3uivEXT
lSecondaryColor3us

glSecondaryColor3usEXT
glSecondaryColor3usv
glSecondaryColor3usvEXT
glSecondaryColorPointer
glSecondaryColorPointerEXT
glSeparableFilter2D
glSetFenceAPPLE
glStencilFuncSeparateATI
glStencilOpSeparateATI
glTestFenceAPPLE
glTestObjectAPPLE
glTexImage3D
glTexSubImage3D
glTextureRangeAPPLE
glVertexArrayParameteriAPPLE
glVertexArrayRangeAPPLE
glVertexAttrib1dARB
glVertexAttrib1dvARB
glVertexAttrib1fARB
glVertexAttrib1fvARB
glVertexAttrib1sARB
glVertexAttrib1svARB
glVertexAttrib2dARB
glVertexAttrib2dvARB
glVertexAttrib2fARB
glVertexAttrib2fvARB
glVertexAttrib2sARB
glVertexAttrib2svARB

glVertexAttrib3dARB
glVertexAttrib3dvARB
glVertexAttrib3fARB
glVertexAttrib3fvARB
glVertexAttrib3sARB
glVertexAttrib3svARB
glVertexAttrib4bvARB
glVertexAttrib4dARB
glVertexAttrib4dvARB
glVertexAttrib4fARB
glVertexAttrib4fvARB
glVertexAttrib4ivARB
glVertexAttrib4NbvARB
glVertexAttrib4NivARB
glVertexAttrib4NsvARB
glVertexAttrib4NubARB
glVertexAttrib4NubvARB
glVertexAttrib4NuivARB
glVertexAttrib4NusvARB
glVertexAttrib4sARB
glVertexAttrib4svARB
glVertexAttrib4ubvARB
glVertexAttrib4uivARB
glVertexAttrib4usvARB
glVertexAttribPointerARB
glVertexBlendARB
glWeightbvARB
glWeightdvARB

glWeightfvARB	T
glWeightivARB	
glWeightPointerARB	
glWeightsvARB	
glWeightubvARB	
glWeightuivARB	
glWeightusvARB	
glWindowPos2d	
g1WindowPos2dARB	
g1WindowPos2dv	
g1WindowPos2dvARB	
g]WindowPos2f	
glWindowPos2fARB	
g]WindowPos2fv	
g1WindowPos2fvARB	
g]WindowPos2i	
g1WindowPos2iARB	
g]WindowPos2iv	
g1WindowPos2ivARB	
g1WindowPos2s	
g1WindowPos2sARB	
g1WindowPos2sv	
glWindowPos2svARB	
g1WindowPos3d	I
g1WindowPos3dARB	
g1WindowPos3dv	
g1WindowPos3dvARB	
glWindowPos3f	

glWindowPos3fARB	
glWindowPos3fv	
glWindowPos3fvARB	
glWindowPos3i	
glWindowPos3iARB	
glWindowPos3iv	
glWindowPos3ivARB	
glWindowPos3s	
glWindowPos3sARB	
glWindowPos3sv	
glWindowPos3svARB	

# CGLProfiler.h

### **Data Types & Constants**

kCGLCPComment	
kCGLCPDumpState	
kCGLCPEnableForceFlush	
kCGLGOComment	
kCGLG0EnableFunctionStatistics	
kCGLG0EnableFunctionTrace	
kCGLGOPageBreak	
kCGLGOResetFunctionStatistics	
kCGLGOResetFunctionTrace	

### CGLRenderers.h

#### **Data Types & Constants**

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

kCGLRendererATIRadeon8500ID	Specifies the ATI Radeon 8500 renderer.	1
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### CGLTypes.h

#### **Data Types & Constants**

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

kCGLCESwapLimit	
kCGLCPSurfaceOpacity	Set or get the surface opacity. A value of 1 means the surface is opaque (the default); 0 means completely transparent.
kCGLCPSurfaceOrder	Set or get the position of the OpenGL surface relative to the window. A value of 1 means that the position is above the window; a value of –1 specifies a position that is below the window.
kCGLPFAAuxDepthStencil	This constant is a Boolean attribute. If it is present in the attributes array, each auxiliary buffer has its own depth-stencil buffer. Do not supply a value with this constant because its presence in the array implies true.
kCGLPFAColorFloat	This constant is a Boolean attribute. If it is present in the attributes array, color buffers store floating-point pixels. Do not supply a value with this constant because its presence in the array implies true.

# gl.h

#### **Functions**

All of the new functions in this header file are listed alphabetically, with links to documentation and abstracts, if available.

glBlendFuncSeparate	
glFogCoordd	
glFogCoorddv	

glFogCoordf	
glFogCoordfv	
glFogCoordPointer	
glMultiDrawArrays	
glMultiDrawElements	
glPointParameterf	
glPointParameterfv	
glSecondaryColor3b	
glSecondaryColor3bv	
glSecondaryColor3d	
glSecondaryColor3dv	
glSecondaryColor3f	
glSecondaryColor3fv	
glSecondaryColor3i	
glSecondaryColor3iv	
glSecondaryColor3s	
glSecondaryColor3sv	
glSecondaryColor3ub	
glSecondaryColor3ubv	
glSecondaryColor3ui	
glSecondaryColor3uiv	
glSecondaryColor3us	
glSecondaryColor3usv	
glSecondaryColorPointer	
glWindowPos2d	
glWindowPos2dv	
glWindowPos2f	
glWindowPos2fv	

glWindowPos2i	
glWindowPos2iv	
glWindowPos2s	
glWindowPos2sv	
glWindowPos3d	
glWindowPos3dv	
glWindowPos3f	
glWindowPos3fv	
glWindowPos3i	
glWindowPos3iv	
glWindowPos3s	
glWindowPos3sv	

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

GL_BLEND_DST_ALPHA	
GL_BLEND_DST_RGB	
GL_BLEND_SRC_ALPHA	
GL_BLEND_SRC_RGB	
GL_COLOR_SUM	
GL_COMPARE_R_TO_TEXTURE	
GL_CURRENT_FOG_COORDINATE	
GL_CURRENT_SECONDARY_COLOR	
GL_DECR_WRAP	
GL_DEPTH_COMPONENT16	
GL_DEPTH_COMPONENT24	
GL_DEPTH_COMPONENT32	
GL_DEPTH_TEXTURE_MODE	

GL_FOG_COORDINATE	_
GL_FOG_COORDINATE_ARRAY	
GL_FOG_COORDINATE_ARRAY_POINTER	
GL_FOG_COORDINATE_ARRAY_STRIDE	
GL_FOG_COORDINATE_ARRAY_TYPE	
GL_FOG_COORDINATE_SOURCE	
GL_FRAGMENT_DEPTH	
GL_GENERATE_MIPMAP	
GL_GENERATE_MIPMAP_HINT	
GL_INCR_WRAP	
GL_MAX_TEXTURE_LOD_BIAS	
GL_MIRRORED_REPEAT	
GL_POINT_DISTANCE_ATTENUATION	
GL_POINT_FADE_THRESHOLD_SIZE	
GL_POINT_SIZE_MAX	
GL_POINT_SIZE_MIN	
GL_SECONDARY_COLOR_ARRAY	
GL_SECONDARY_COLOR_ARRAY_POINTER	
GL_SECONDARY_COLOR_ARRAY_SIZE	
GL_SECONDARY_COLOR_ARRAY_STRIDE	
GL_SECONDARY_COLOR_ARRAY_TYPE	
GL_TEXTURE_COMPARE_FUNC	
GL_TEXTURE_COMPARE_MODE	
GL_TEXTURE_COMPRESSED_IMAGE_SIZE	
GL_TEXTURE_DEPTH_SIZE	
GL_TEXTURE_FILTER_CONTROL	
GL_TEXTURE_LOD_BIAS	
GL_VERSION_1_4	

# glext.h

### **Functions**

All of the new functions in this header file are listed alphabetically, with links to documentation and abstracts, if available.

glActiveStencilFaceEXT	
glBindProgramARB	
glBindVertexArrayAPPLE	
glBlendEquationSeparateATI	
glBlendFuncSeparateEXT	
glDeleteFencesAPPLE	
glDeleteProgramsARB	
glDeleteVertexArraysAPPLE	
glDisableVertexAttribAPPLE	
glDisableVertexAttribArrayARB	
glDrawElementArrayAPPLE	
glDrawRangeElementArrayAPPLE	
glDrawRangeElementsEXT	
glElementPointerAPPLE	
glEnableVertexAttribAPPLE	
glEnableVertexAttribArrayARB	
glFinishFenceAPPLE	
glFinishObjectAPPLE	
glFlushVertexArrayRangeAPPLE	
glFogCoorddEXT	
glFogCoorddvEXT	
glFogCoordfEXT	
glFogCoordfvEXT	
glFogCoordPointerEXT	
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glGenFencesAPPLE
glGenProgramsARB
glGenVertexArraysAPPLE
glGetProgramEnvParameterdvARB
glGetProgramEnvParameterfvARB
glGetProgramivARB
glGetProgramLocalParameterdvARB
glGetProgramLocalParameterfvARB
glGetProgramStringARB
glGetTexParameterPointervAPPLE
glGetVertexAttribdvARB
glGetVertexAttribfvARB
glGetVertexAttribivARB
glGetVertexAttribPointervARB
glIsFenceAPPLE
glIsProgramARB
glIsVertexArrayAPPLE
glIsVertexAttribEnabledAPPLE
glMapVertexAttrib1dAPPLE
glMapVertexAttrib1fAPPLE
glMapVertexAttrib2dAPPLE
glMapVertexAttrib2fAPPLE
glMultiDrawArraysEXT
glMultiDrawElementsEXT
glPNTrianglesfATI
glPNTrianglesiATI
glPointParameterfARB
glPointParameterfvARB

glPointParameteriNV
glPointParameterivNV
glProgramEnvParameter4dARB
glProgramEnvParameter4dvARB
glProgramEnvParameter4fARB
glProgramEnvParameter4fvARB
glProgramLocalParameter4dARB
glProgramLocalParameter4dvARB
glProgramLocalParameter4fARB
glProgramLocalParameter4fvARB
glProgramStringARB
glSetFenceAPPLE
glStencilFuncSeparateATI
glStencilOpSeparateATI
glTestFenceAPPLE
glTestObjectAPPLE
glTextureRangeAPPLE
glVertexArrayParameteriAPPLE
glVertexArrayRangeAPPLE
glVertexAttrib1dARB
glVertexAttrib1dvARB
glVertexAttrib1fARB
glVertexAttrib1fvARB
glVertexAttrib1sARB
glVertexAttrib1svARB
glVertexAttrib2dARB
glVertexAttrib2dvARB
glVertexAttrib2fARB

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glVertexAttrib2fvARB
glVertexAttrib2sARB
glVertexAttrib2svARB
glVertexAttrib3dARB
glVertexAttrib3dvARB
glVertexAttrib3fARB
glVertexAttrib3fvARB
glVertexAttrib3sARB
glVertexAttrib3svARB
glVertexAttrib4bvARB
glVertexAttrib4dARB
glVertexAttrib4dvARB
glVertexAttrib4fARB
glVertexAttrib4fvARB
glVertexAttrib4ivARB
glVertexAttrib4NbvARB
glVertexAttrib4NivARB
glVertexAttrib4NsvARB
glVertexAttrib4NubARB
glVertexAttrib4NubvARB
glVertexAttrib4NuivARB
glVertexAttrib4NusvARB
glVertexAttrib4sARB
glVertexAttrib4svARB
glVertexAttrib4ubvARB
glVertexAttrib4uivARB
glVertexAttrib4usvARB
glVertexAttribPointerARB

glVertexBlendARB	
glWeightbvARB	
glWeightdvARB	
glWeightfvARB	
glWeightivARB	
glWeightPointerARB	
glWeightsvARB	
glWeightubvARB	
glWeightuivARB	
glWeightusvARB	
glWindowPos2dARB	
glWindowPos2dvARB	
glWindowPos2fARB	
glWindowPos2fvARB	
glWindowPos2iARB	
glWindowPos2ivARB	
glWindowPos2sARB	
g1WindowPos2svARB	
g1WindowPos3dARB	
g1WindowPos3dvARB	
glWindowPos3fARB	
glWindowPos3fvARB	
g1WindowPos3iARB	
g1WindowPos3ivARB	
g1WindowPos3sARB	
g1WindowPos3svARB	

CL ACTIVE STENCIL FACE EVT
GL_ACTIVE_STENCIL_FACE_EXT
GL_ACTIVE_VERTEX_UNITS_ARB
GL_ALPHA_BLEND_EQUATION_ATI
GL_ALPHA_FLOAT16_APPLE
GL_ALPHA_FLOAT32_APPLE
GL_APPLE_element_array
GL_APPLE_fence
GL_APPLE_float_pixels
GL_APPLE_packed_pixels
GL_APPLE_texture_range
GL_APPLE_vertex_array_object
GL_APPLE_vertex_array_range
GL_APPLE_vertex_program_evaluators
GL_ARB_depth_texture
GL_ARB_fragment_program
GL_ARB_imaging
GL_ARB_point_parameters
GL_ARB_shadow
GL_ARB_shadow_ambient
GL_ARB_texture_env_crossbar
GL_ARB_texture_mirrored_repeat
GL_ARB_vertex_blend
GL_ARB_vertex_program
GL_ARB_window_pos
GL_ARRAY_REV_COMPS_IN_4_BYTES_ATI
GL_ATI_array_rev_comps_in_4_bytes

GL_ATI_blend_equation_separate
GL_ATI_blend_weighted_minmax
GL_ATI_pn_triangles
GL_ATI_point_cull_mode
GL_ATI_separate_stencil
GL_ATI_text_fragment_shader
GL_ATI_texture_env_combine3
GL_ATI_texture_mirror_once
GL_BLEND_DST_ALPHA_EXT
GL_BLEND_DST_RGB_EXT
GL_BLEND_SRC_ALPHA_EXT
GL_BLEND_SRC_RGB_EXT
GL_COLOR_FLOAT_APPLE
GL_COLOR_SUM_ARB
GL_COMPARE_R_TO_TEXTURE_ARB
GL_CONST_EYE_NV
GL_COORD_REPLACE_NV
GL_CULL_FRAGMENT_NV
GL_CULL_MODES_NV
GL_CURRENT_FOG_COORDINATE_EXT
GL_CURRENT_MATRIX_ARB
GL_CURRENT_MATRIX_STACK_DEPTH_ARB
GL_CURRENT_VERTEX_ATTRIB_ARB
GL_CURRENT_WEIGHT_ARB
GL_DECR_WRAP_EXT
GL_DEPENDENT_AR_TEXTURE_2D_NV
GL_DEPENDENT_GB_TEXTURE_2D_NV
GL_DEPENDENT_HILO_TEXTURE_2D_NV

GL_DEPENDENT_RGB_TEXTURE_3D_NV
GL_DEPENDENT_RGB_TEXTURE_CUBE_MAP_NV
GL_DEPTH_CLAMP_NV
GL_DEPTH_COMPONENT16_ARB
GL_DEPTH_COMPONENT24_ARB
GL_DEPTH_COMPONENT32_ARB
GL_DEPTH_TEXTURE_MODE_ARB
GL_DOT_PRODUCT_AFFINE_DEPTH_REPLACE_NV
GL_DOT_PRODUCT_CONST_EYE_REFLECT_CUBE_MAP_NV
GL_DOT_PRODUCT_DEPTH_REPLACE_NV
GL_DOT_PRODUCT_DIFFUSE_CUBE_MAP_NV
GL_DOT_PRODUCT_NV
GL_DOT_PRODUCT_PASS_THROUGH_NV
GL_DOT_PRODUCT_REFLECT_CUBE_MAP_NV
GL_DOT_PRODUCT_TEXTURE_1D_NV
GL_DOT_PRODUCT_TEXTURE_2D_NV
GL_DOT_PRODUCT_TEXTURE_3D_NV
GL_DOT_PRODUCT_TEXTURE_CUBE_MAP_NV
GL_DOT_PRODUCT_TEXTURE_RECTANGLE_NV
GL_DRAW_PIXELS_APPLE
GL_DS_BIAS_NV
GL_DS_SCALE_NV
GL_DSDT8_MAG8_INTENSITY8_NV
GL_DSDT8_MAG8_NV
GL_DSDT8_NV
GL_DSDT_MAG_INTENSITY_NV
GL_DSDT_MAG_NV
GL_DSDT_MAG_VIB_NV

GL_DSDT_NV
GL_DT_BIAS_NV
GL_DT_SCALE_NV
GL_ELEMENT_ARRAY_APPLE
GL_ELEMENT_ARRAY_POINTER_APPLE
GL_ELEMENT_ARRAY_TYPE_APPLE
GL_EXT_blend_func_separate
GL_EXT_draw_range_elements
GL_EXT_fog_coord
GL_EXT_multi_draw_arrays
GL_EXT_shadow_funcs
GL_EXT_stencil_two_side
GL_EXT_stencil_wrap
GL_EYE_PLANE_ABSOLUTE_NV
GL_EYE_RADIAL_NV
GL_FENCE_APPLE
GL_FOG_COORDINATE_ARRAY_EXT
GL_FOG_COORDINATE_ARRAY_POINTER_EXT
GL_FOG_COORDINATE_ARRAY_STRIDE_EXT
GL_FOG_COORDINATE_ARRAY_TYPE_EXT
GL_FOG_COORDINATE_EXT
GL_FOG_COORDINATE_SOURCE_EXT
GL_FOG_DISTANCE_MODE_NV
GL_FORCE_BLUE_TO_ONE_NV
GL_FRAGMENT_DEPTH_EXT
GL_FRAGMENT_PROGRAM_ARB
GL_GENERATE_MIPMAP_HINT_SGIS
GL_GENERATE_MIPMAP_SGIS

GL_HI_BIAS_NV	
GL_HI_SCALE_NV	
GL_HIL016_NV	
GL_HILO8_NV	
GL_HILO_NV	
GL_INCR_WRAP_EXT	
GL_INTENSITY_FLOAT16_APPLE	
GL_INTENSITY_FLOAT32_APPLE	
GL_LO_BIAS_NV	
GL_LO_SCALE_NV	
GL_LUMINANCE_ALPHA_FLOAT16_APPLE	
GL_LUMINANCE_ALPHA_FLOAT32_APPLE	
GL_LUMINANCE_FLOAT16_APPLE	
GL_LUMINANCE_FLOAT32_APPLE	
GL_MAGNITUDE_BIAS_NV	
GL_MAGNITUDE_SCALE_NV	
GL_MATRIXO_ARB	
GL_MATRIX10_ARB	
GL_MATRIX11_ARB	
GL_MATRIX12_ARB	
GL_MATRIX13_ARB	
GL_MATRIX14_ARB	
GL_MATRIX15_ARB	
GL_MATRIX16_ARB	
GL_MATRIX17_ARB	
GL_MATRIX18_ARB	
GL_MATRIX19_ARB	
GL_MATRIX1_ARB	

GL_MATRIX21_ARB GL_MATRIX22_ARB GL_MATRIX23_ARB GL_MATRIX24_ARB GL_MATRIX25_ARB GL_MATRIX25_ARB GL_MATRIX25_ARB GL_MATRIX26_ARB GL_MATRIX27_ARB GL_MATRIX29_ARB GL_MATRIX29_ARB GL_MATRIX29_ARB GL_MATRIX30_ARB GL_MATRIX30_ARB GL_MATRIX31_ARB GL_MATRIX31_ARB GL_MATRIX3_ARB GL_MATRIX4_ARB GL_MATRIX5_ARB GL_MATRIX5_ARB GL_MATRIX5_ARB GL_MATRIX5_ARB GL_MATRIX5_ARB GL_MATRIX6_ARB GL_MATRIX6_ARB GL_MATRIX7_ARB GL_MATRIX7_ARB GL_MATRIX8_ARB GL_MATRIX8_ARB GL_MATRIX9_ARB GL_MAX_PACGRAM_ADDRESS_REGISTERS_ARB GL_MAX_PROGRAM_ADDRESS_REGISTERS_ARB GL_MAX_PROGRAM_ATRIBS_ARB GL_MAX_PROGRAM_ATRIBS_ARB GL_MAX_PROGRAM_INSTRUCTIONS_ARB GL_MAX_PROGRAM_INSTRUCTIONS_ARB GL_MAX_PROGRAM_INSTRUCTIONS_ARB		Т
GI_MATRIX22_ARB GL_MATRIX24_ARB GL_MATRIX25_ARB GL_MATRIX25_ARB GL_MATRIX26_ARB GL_MATRIX27_ARB GL_MATRIX29_ARB GL_MATRIX29_ARB GL_MATRIX29_ARB GL_MATRIX2,ARB GL_MATRIX2,ARB GL_MATRIX30_ARB GL_MATRIX3_ARB GL_MATRIX3_ARB GL_MATRIX3_ARB GL_MATRIX4_ARB GL_MATRIX4_ARB GL_MATRIX4_ARB GL_MATRIX5_ARB GL_MATRIX6_ARB GL_MATRIX6_ARB GL_MATRIX6_ARB GL_MATRIX7_ARB GL_MATRIX9_ARB GL_MATRIX9_ARB GL_MATRIX9_ARB GL_MATRIX9_ARB GL_MATRIX9_ARB GL_MATRIX9_ARB GL_MATRIX9_ARB GL_MAX_PROGRAM_ADDRESS_REGISTERS_ARB GL_MAX_PROGRAM_ATRIBS_ARB GL_MAX_PROGRAM_ATRIBS_ARB GL_MAX_PROGRAM_ATRIBS_ARB		
GL_MATRIX23_ARB GL_MATRIX25_ARB GL_MATRIX25_ARB GL_MATRIX26_ARB GL_MATRIX27_ARB GL_MATRIX27_ARB GL_MATRIX28_ARB GL_MATRIX29_ARB GL_MATRIX2_ARB GL_MATRIX3_ARB GL_MATRIX3_ARB GL_MATRIX3_ARB GL_MATRIX3_ARB GL_MATRIX4_ARB GL_MATRIX5_ARB GL_MATRIX5_ARB GL_MATRIX5_ARB GL_MATRIX5_ARB GL_MATRIX5_ARB GL_MATRIX6_ARB GL_MATRIX9_ARB GL_MATRIX9_ARB GL_MATRIX9_ARB GL_MATRIX9_ARB GL_MATRIX9_ARB GL_MATRIX9_ARB GL_MATRIX9_ARB GL_MAX_ELEMENTS_INDICES_EXT GL_MAX_ELEMENTS_VERTICES_EXT GL_MAX_PROGRAM_ADDRESS_REGISTERS_ARB GL_MAX_PROGRAM_AU_INSTRUCTIONS_ARB GL_MAX_PROGRAM_ATTRIBS_ARB GL_MAX_PROGRAM_ATTRIBS_ARB GL_MAX_PROGRAM_ATTRIBS_ARB GL_MAX_PROGRAM_ATTRIBS_ARB	GL_MATRIX21_ARB	
GL_MATRIX24_ARB GL_MATRIX25_ARB GL_MATRIX26_ARB GL_MATRIX27_ARB GL_MATRIX29_ARB GL_MATRIX29_ARB GL_MATRIX30_ARB GL_MATRIX31_ARB GL_MATRIX31_ARB GL_MATRIX3_ARB GL_MATRIX3_ARB GL_MATRIX4_ARB GL_MATRIX5_ARB GL_MATRIX5_ARB GL_MATRIX5_ARB GL_MATRIX7_ARB GL_MATRIX7_ARB GL_MATRIX7_ARB GL_MATRIX7_ARB GL_MATRIX9_ARB GL_MATRIX9_ARB GL_MATRIX9_ARB GL_MATRIX9_ARB GL_MATRIX9_ARB GL_MATRIX9_ARB GL_MATRIX9_ARB GL_MAX_ELEMENTS_INDICES_EXT GL_MAX_ELEMENTS_VERTICES_EXT GL_MAX_PROGRAM_ADDRESS_REGISTERS_ARB GL_MAX_PROGRAM_AU_INSTRUCTIONS_ARB GL_MAX_PROGRAM_ATRIBS_ARB GL_MAX_PROGRAM_ATRIBS_ARB GL_MAX_PROGRAM_ATRIBS_ARB GL_MAX_PROGRAM_ENV_PARAMETERS_ARB	GL_MATRIX22_ARB	
GL_MATRIX25_ARB  GL_MATRIX27_ARB  GL_MATRIX27_ARB  GL_MATRIX29_ARB  GL_MATRIX29_ARB  GL_MATRIX30_ARB  GL_MATRIX31_ARB  GL_MATRIX31_ARB  GL_MATRIX3_ARB  GL_MATRIX4_ARB  GL_MATRIX5_ARB  GL_MATRIX5_ARB  GL_MATRIX7_ARB  GL_MATRIX7_ARB  GL_MATRIX7_ARB  GL_MATRIX7_ARB  GL_MATRIX9_ARB  GL_MATRIX9_ARB  GL_MATRIX9_ARB  GL_MATRIX9_ARB  GL_MATRIX9_ARB  GL_MATRIX9_ARB  GL_MAX_ELEMENTS_INDICES_EXT  GL_MAX_ELEMENTS_VERTICES_EXT  GL_MAX_PROGRAM_ADDRESS_REGISTERS_ARB  GL_MAX_PROGRAM_AU_INSTRUCTIONS_ARB  GL_MAX_PROGRAM_ATTRIBS_ARB  GL_MAX_PROGRAM_ATTRIBS_ARB  GL_MAX_PROGRAM_ATTRIBS_ARB	GL_MATRIX23_ARB	
GL_MATRIX26_ARB  GL_MATRIX27_ARB  GL_MATRIX28_ARB  GL_MATRIX29_ARB  GL_MATRIX2_ARB  GL_MATRIX30_ARB  GL_MATRIX31_ARB  GL_MATRIX31_ARB  GL_MATRIX4_ARB  GL_MATRIX5_ARB  GL_MATRIX5_ARB  GL_MATRIX5_ARB  GL_MATRIX5_ARB  GL_MATRIX7_ARB  GL_MATRIX7_ARB  GL_MATRIX9_ARB  GL_MATRIX9_ARB  GL_MATRIX9_ARB  GL_MATRIX9_ARB  GL_MATRIX9_ARB  GL_MAX_ELEMENTS_INDICES_EXT  GL_MAX_ELEMENTS_VERTICES_EXT  GL_MAX_PN_TRIANGLES_TESSELATION_LEVEL_ATI GL_MAX_PROGRAM_ADDRESS_REGISTERS_ARB  GL_MAX_PROGRAM_ATTRIBS_ARB  GL_MAX_PROGRAM_ATTRIBS_ARB  GL_MAX_PROGRAM_ATTRIBS_ARB  GL_MAX_PROGRAM_ATTRIBS_ARB	GL_MATRIX24_ARB	
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GL_MATRIX28_ARB  GL_MATRIX29_ARB  GL_MATRIX2_ARB  GL_MATRIX30_ARB  GL_MATRIX31_ARB  GL_MATRIX3_ARB  GL_MATRIX4_ARB  GL_MATRIX5_ARB  GL_MATRIX5_ARB  GL_MATRIX6_ARB  GL_MATRIX7_ARB  GL_MATRIX7_ARB  GL_MATRIX9_ARB  GL_MATRIX9_ARB  GL_MATRIX9_ARB  GL_MAX_ELEMENTS_INDICES_EXT  GL_MAX_PROGRAM_ADDRESS_REGISTERS_ARB  GL_MAX_PROGRAM_ATRIBS_ARB  GL_MAX_PROGRAM_ATRIBS_ARB  GL_MAX_PROGRAM_ATRIBS_ARB  GL_MAX_PROGRAM_ATRIBS_ARB	GL_MATRIX26_ARB	
GL_MATRIX29_ARB  GL_MATRIX30_ARB  GL_MATRIX31_ARB  GL_MATRIX31_ARB  GL_MATRIX3_ARB  GL_MATRIX5_ARB  GL_MATRIX5_ARB  GL_MATRIX5_ARB  GL_MATRIX6_ARB  GL_MATRIX7_ARB  GL_MATRIX7_ARB  GL_MATRIX9_ARB  GL_MATRIX9_ARB  GL_MATRIX9_ARB  GL_MATRIX9_ARB  GL_MAX_ELEMENTS_INDICES_EXT  GL_MAX_ELEMENTS_VERTICES_EXT  GL_MAX_PN_TRIANGLES_TESSELATION_LEVEL_ATI  GL_MAX_PROGRAM_ADDRESS_REGISTERS_ARB  GL_MAX_PROGRAM_ALU_INSTRUCTIONS_ARB  GL_MAX_PROGRAM_ATTRIBS_ARB  GL_MAX_PROGRAM_ENV_PARAMETERS_ARB	GL_MATRIX27_ARB	
GL_MATRIX2_ARB  GL_MATRIX30_ARB  GL_MATRIX31_ARB  GL_MATRIX3_ARB  GL_MATRIX4_ARB  GL_MATRIX5_ARB  GL_MATRIX5_ARB  GL_MATRIX7_ARB  GL_MATRIX7_ARB  GL_MATRIX7_ARB  GL_MATRIX9_ARB  GL_MATRIX9_ARB  GL_MATRIX9_ARB  GL_MAX_ELEMENTS_INDICES_EXT  GL_MAX_ELEMENTS_VERTICES_EXT  GL_MAX_PN_TRIANGLES_TESSELATION_LEVEL_ATI  GL_MAX_PROGRAM_ADDRESS_REGISTERS_ARB  GL_MAX_PROGRAM_ALU_INSTRUCTIONS_ARB  GL_MAX_PROGRAM_ATTRIBS_ARB  GL_MAX_PROGRAM_ENV_PARAMETERS_ARB	GL_MATRIX28_ARB	
GL_MATRIX30_ARB  GL_MATRIX31_ARB  GL_MATRIX3_ARB  GL_MATRIX4_ARB  GL_MATRIX5_ARB  GL_MATRIX5_ARB  GL_MATRIX7_ARB  GL_MATRIX7_ARB  GL_MATRIX9_ARB  GL_MATRIX9_ARB  GL_MATRIX9_ARB  GL_MAX_ELEMENTS_INDICES_EXT  GL_MAX_ELEMENTS_VERTICES_EXT  GL_MAX_PN_TRIANGLES_TESSELATION_LEVEL_ATI  GL_MAX_PROGRAM_ADDRESS_REGISTERS_ARB  GL_MAX_PROGRAM_ALU_INSTRUCTIONS_ARB  GL_MAX_PROGRAM_ATTRIBS_ARB  GL_MAX_PROGRAM_ENV_PARAMETERS_ARB	GL_MATRIX29_ARB	
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GL_MATRIX4_ARB  GL_MATRIX5_ARB  GL_MATRIX7_ARB  GL_MATRIX7_ARB  GL_MATRIX8_ARB  GL_MATRIX9_ARB  GL_MAX_ELEMENTS_INDICES_EXT  GL_MAX_ELEMENTS_VERTICES_EXT  GL_MAX_PN_TRIANGLES_TESSELATION_LEVEL_ATI  GL_MAX_PROGRAM_ADDRESS_REGISTERS_ARB  GL_MAX_PROGRAM_ALU_INSTRUCTIONS_ARB  GL_MAX_PROGRAM_ATTRIBS_ARB  GL_MAX_PROGRAM_ENV_PARAMETERS_ARB	GL_MATRIX31_ARB	
GL_MATRIX5_ARB  GL_MATRIX6_ARB  GL_MATRIX7_ARB  GL_MATRIX8_ARB  GL_MATRIX9_ARB  GL_MAX_ELEMENTS_INDICES_EXT  GL_MAX_ELEMENTS_VERTICES_EXT  GL_MAX_PN_TRIANGLES_TESSELATION_LEVEL_ATI  GL_MAX_PROGRAM_ADDRESS_REGISTERS_ARB  GL_MAX_PROGRAM_ATTRIBS_ARB  GL_MAX_PROGRAM_ENV_PARAMETERS_ARB	GL_MATRIX3_ARB	
GL_MATRIX6_ARB  GL_MATRIX7_ARB  GL_MATRIX8_ARB  GL_MATRIX9_ARB  GL_MAX_ELEMENTS_INDICES_EXT  GL_MAX_ELEMENTS_VERTICES_EXT  GL_MAX_PN_TRIANGLES_TESSELATION_LEVEL_ATI  GL_MAX_PROGRAM_ADDRESS_REGISTERS_ARB  GL_MAX_PROGRAM_ALU_INSTRUCTIONS_ARB  GL_MAX_PROGRAM_ATTRIBS_ARB  GL_MAX_PROGRAM_ENV_PARAMETERS_ARB	GL_MATRIX4_ARB	
GL_MATRIX7_ARB  GL_MATRIX8_ARB  GL_MAX_ELEMENTS_INDICES_EXT  GL_MAX_ELEMENTS_VERTICES_EXT  GL_MAX_PN_TRIANGLES_TESSELATION_LEVEL_ATI  GL_MAX_PROGRAM_ADDRESS_REGISTERS_ARB  GL_MAX_PROGRAM_ALU_INSTRUCTIONS_ARB  GL_MAX_PROGRAM_ATTRIBS_ARB  GL_MAX_PROGRAM_ENV_PARAMETERS_ARB	GL_MATRIX5_ARB	
GL_MATRIX8_ARB  GL_MAX_ELEMENTS_INDICES_EXT  GL_MAX_ELEMENTS_VERTICES_EXT  GL_MAX_PN_TRIANGLES_TESSELATION_LEVEL_ATI  GL_MAX_PROGRAM_ADDRESS_REGISTERS_ARB  GL_MAX_PROGRAM_ALU_INSTRUCTIONS_ARB  GL_MAX_PROGRAM_ATTRIBS_ARB  GL_MAX_PROGRAM_ENV_PARAMETERS_ARB	GL_MATRIX6_ARB	
GL_MAX_ELEMENTS_INDICES_EXT  GL_MAX_ELEMENTS_VERTICES_EXT  GL_MAX_PN_TRIANGLES_TESSELATION_LEVEL_ATI  GL_MAX_PROGRAM_ADDRESS_REGISTERS_ARB  GL_MAX_PROGRAM_ALU_INSTRUCTIONS_ARB  GL_MAX_PROGRAM_ATTRIBS_ARB  GL_MAX_PROGRAM_ENV_PARAMETERS_ARB	GL_MATRIX7_ARB	
GL_MAX_ELEMENTS_INDICES_EXT  GL_MAX_ELEMENTS_VERTICES_EXT  GL_MAX_PN_TRIANGLES_TESSELATION_LEVEL_ATI  GL_MAX_PROGRAM_ADDRESS_REGISTERS_ARB  GL_MAX_PROGRAM_ALU_INSTRUCTIONS_ARB  GL_MAX_PROGRAM_ATTRIBS_ARB  GL_MAX_PROGRAM_ENV_PARAMETERS_ARB	GL_MATRIX8_ARB	
GL_MAX_ELEMENTS_VERTICES_EXT  GL_MAX_PN_TRIANGLES_TESSELATION_LEVEL_ATI  GL_MAX_PROGRAM_ADDRESS_REGISTERS_ARB  GL_MAX_PROGRAM_ALU_INSTRUCTIONS_ARB  GL_MAX_PROGRAM_ATTRIBS_ARB  GL_MAX_PROGRAM_ENV_PARAMETERS_ARB	GL_MATRIX9_ARB	
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GL_MAX_PROGRAM_ALU_INSTRUCTIONS_ARB  GL_MAX_PROGRAM_ATTRIBS_ARB  GL_MAX_PROGRAM_ENV_PARAMETERS_ARB	GL_MAX_PN_TRIANGLES_TESSELATION_LEVEL_ATI	
GL_MAX_PROGRAM_ATTRIBS_ARB  GL_MAX_PROGRAM_ENV_PARAMETERS_ARB	GL_MAX_PROGRAM_ADDRESS_REGISTERS_ARB	
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	GL_MAX_PROGRAM_ATTRIBS_ARB	
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GL_OFFSET_PROJECTIVE_TEXTURE_RECTANGLE_NV
GL_OFFSET_PROJECTIVE_TEXTURE_RECTANGLE_SCALE_NV
GL_OFFSET_TEXTURE_2D_BIAS_NV
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GL_SIGNED_HILO16_NV  GL_SIGNED_HILO8_NV  GL_SIGNED_HILO_NV  GL_SIGNED_LINTENSITY8_NV  GL_SIGNED_LINTENSITY_NV  GL_SIGNED_LUMINANCE8_ALPHA8_NV  GL_SIGNED_LUMINANCE8_NV  GL_SIGNED_LUMINANCE8_NV  GL_SIGNED_LUMINANCE_NV  GL_SIGNED_LUMINANCE_NV  GL_SIGNED_RGBB_NV  GL_SIGNED_RGBB_NV  GL_SIGNED_RGBB_NV  GL_SIGNED_RGBB_NV  GL_SIGNED_RGBB_NV  GL_SIGNED_RGBB_NV  GL_SIGNED_RGB_NV  GL_SIGNED_RGB_NV  GL_SIGNED_RGB_NV  GL_SIGNED_RGBA_NV  GL_	GL_SIGNED_ALPHA8_NV	
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GL_SIGNED_HILO_NV  GL_SIGNED_INTENSITYB_NV  GL_SIGNED_INTENSITY_NV  GL_SIGNED_LUMINANCEB_ALPHAB_NV  GL_SIGNED_LUMINANCEB_NV  GL_SIGNED_LUMINANCEB_NV  GL_SIGNED_LUMINANCE_NV  GL_SIGNED_LUMINANCE_NV  GL_SIGNED_RGBB_NV  GL_SIGNED_RGBB_UNSIGNED_ALPHAB_NV  GL_SIGNED_RGBB_UNSIGNED_ALPHAB_NV  GL_SIGNED_RGBB_NV  GL_SIGNED_RGBA_NV  GL_SIGNED_RGBA_NV  GL_SIGNED_RGBA_NV  GL_SIGNED_RGBA_NV  GL_SIGNED_RGBA_NV  GL_SIGNED_RGBA_NV  GL_STENCIL_BACK_FAIL_ATI  GL_STENCIL_BACK_FAIL_ATI  GL_STENCIL_BACK_PASS_DEPTH_FAIL_ATI  GL_STENCIL_BACK_PASS_DEPTH_PASS_ATI  GL_STENCIL_TEST_TWO_SIDE_EXT  GL_STORAGE_CACHED_APPLE  GL_STORAGE_SHARED_APPLE  GL_STORAGE_SHARED_APPLE	GL_SIGNED_HILO16_NV	
GL_SIGNED_INTENSITYB_NV  GL_SIGNED_INTENSITY_NV  GL_SIGNED_LUMINANCEB_ALPHAB_NV  GL_SIGNED_LUMINANCEB_NV  GL_SIGNED_LUMINANCE_ALPHA_NV  GL_SIGNED_LUMINANCE_ALPHA_NV  GL_SIGNED_RGBB_NV  GL_SIGNED_RGBB_UNSIGNED_ALPHAB_NV  GL_SIGNED_RGBB_UNSIGNED_ALPHAB_NV  GL_SIGNED_RGB_NV  GL_SIGNED_RGB_NV  GL_SIGNED_RGBAB_NV  GL_SIGNED_RGBAB_NV  GL_SIGNED_RGBAB_NV  GL_SIGNED_RGBAB_NV  GL_SIGNED_RGBAB_NV  GL_STENCIL_BACK_FAIL_ATI  GL_STENCIL_BACK_FAIL_ATI  GL_STENCIL_BACK_PASS_DEPTH_FAIL_ATI  GL_STENCIL_BACK_PASS_DEPTH_PASS_ATI  GL_STENCIL_TEST_TWO_SIDE_EXT  GL_STORAGE_CACHED_APPLE  GL_STORAGE_SHARED_APPLE  GL_STORAGE_SHARED_APPLE  GL_STORAGE_SHARED_APPLE	GL_SIGNED_HILO8_NV	
GL_SIGNED_INTENSITY_NV  GL_SIGNED_LUMINANCE8_ALPHA8_NV  GL_SIGNED_LUMINANCE8_NV  GL_SIGNED_LUMINANCE_ALPHA_NV  GL_SIGNED_LUMINANCE_NV  GL_SIGNED_RGB8_NV  GL_SIGNED_RGB8_NV  GL_SIGNED_RGB8_UNSIGNED_ALPHA8_NV  GL_SIGNED_RGB_UNSIGNED_ALPHA_NV  GL_SIGNED_RGB_NV  GL_SIGNED_RGBA_NV  GL_SIGNED_RGBA_NV  GL_SIGNED_RGBA_NV  GL_SIGNED_RGBA_NV  GL_SIGNED_RGBA_NV  GL_SIGNED_RGBA_NV  GL_STENCIL_BACK_FAIL_ATI  GL_STENCIL_BACK_FASS_DEPTH_FAIL_ATI  GL_STENCIL_BACK_PASS_DEPTH_PASS_ATI  GL_STENCIL_BACK_PASS_DEPTH_PASS_ATI  GL_STORAGE_CACHED_APPLE  GL_STORAGE_SHARED_APPLE  GL_STORAGE_SHARED_APPLE  GL_STORAGE_SHARED_APPLE	GL_SIGNED_HILO_NV	
GL_SIGNED_LUMINANCE8_ALPHA8_NV  GL_SIGNED_LUMINANCEALPHA_NV  GL_SIGNED_LUMINANCE_ALPHA_NV  GL_SIGNED_RGB8_NV  GL_SIGNED_RGB8_NV  GL_SIGNED_RGB8_UNSIGNED_ALPHA8_NV  GL_SIGNED_RGB8_UNSIGNED_ALPHA8_NV  GL_SIGNED_RGBA_NV  GL_SIGNED_RGBA_NV  GL_SIGNED_RGBA_NV  GL_SIGNED_RGBA_NV  GL_SIGNED_RGBAS_NV  GL_SIGNED_RGBAS_NV  GL_SIGNED_RGBAS_NV  GL_SIGNED_RGBAS_NV  GL_SIGNED_RGBAS_NV  GL_SIGNED_RGBAS_NV  GL_STENCIL_BACK_FAIL_ATI  GL_STENCIL_BACK_FAIL_ATI  GL_STENCIL_BACK_PASS_DEPTH_FAIL_ATI  GL_STENCIL_BACK_PASS_DEPTH_PASS_ATI  GL_STENCIL_TEST_TWO_SIDE_EXT  GL_STORAGE_CACHED_APPLE  GL_STORAGE_SHARED_APPLE  GL_STORAGE_SHARED_APPLE  GL_TEXT_FRAGMENT_SHADER_ATI	GL_SIGNED_INTENSITY8_NV	
GL_SIGNED_LUMINANCEA_NV  GL_SIGNED_LUMINANCE_ALPHA_NV  GL_SIGNED_RGB8_NV  GL_SIGNED_RGB8_UNSIGNED_ALPHAB_NV  GL_SIGNED_RGB8_UNSIGNED_ALPHAB_NV  GL_SIGNED_RGB_UNSIGNED_ALPHA_NV  GL_SIGNED_RGBAB_NV  GL_SIGNED_RGBAB_NV  GL_SIGNED_RGBAB_NV  GL_SIGNED_RGBA_NV  GL_STENCIL_BACK_FAIL_ATI  GL_STENCIL_BACK_FUNC_ATI  GL_STENCIL_BACK_PASS_DEPTH_FAIL_ATI  GL_STENCIL_BACK_PASS_DEPTH_PASS_ATI  GL_STENCIL_BACK_PASS_DEPTH_PASS_ATI  GL_STENCIL_TEST_TWO_SIDE_EXT  GL_STORAGE_CACHED_APPLE  GL_STORAGE_PRIVATE_APPLE  GL_STORAGE_SHARED_APPLE  GL_TEXT_FRAGMENT_SHADER_ATI	GL_SIGNED_INTENSITY_NV	
GL_SIGNED_LUMINANCE_ALPHA_NV  GL_SIGNED_RGB8_NV  GL_SIGNED_RGB8_NV  GL_SIGNED_RGB8_UNSIGNED_ALPHA8_NV  GL_SIGNED_RGB_UNSIGNED_ALPHA_NV  GL_SIGNED_RGB_UNSIGNED_ALPHA_NV  GL_SIGNED_RGBAB_NV  GL_SIGNED_RGBAB_NV  GL_SIGNED_RGBAB_NV  GL_STENCIL_BACK_FAIL_ATI  GL_STENCIL_BACK_FAIL_ATI  GL_STENCIL_BACK_PASS_DEPTH_FAIL_ATI  GL_STENCIL_BACK_PASS_DEPTH_PASS_ATI  GL_STENCIL_TEST_TWO_SIDE_EXT  GL_STORAGE_CACHED_APPLE  GL_STORAGE_SHARED_APPLE  GL_STORAGE_SHARED_APPLE  GL_TEXT_FRAGMENT_SHADER_ATI	GL_SIGNED_LUMINANCE8_ALPHA8_NV	
GL_SIGNED_LUMINANCE_NV  GL_SIGNED_RGB8_NV  GL_SIGNED_RGB8_UNSIGNED_ALPHA8_NV  GL_SIGNED_RGB_UNSIGNED_ALPHA_NV  GL_SIGNED_RGB_UNSIGNED_ALPHA_NV  GL_SIGNED_RGBA_NV  GL_SIGNED_RGBA_NV  GL_SIGNED_RGBA_NV  GL_STENCIL_BACK_FAIL_ATI  GL_STENCIL_BACK_FUNC_ATI  GL_STENCIL_BACK_PASS_DEPTH_FAIL_ATI  GL_STENCIL_BACK_PASS_DEPTH_PASS_ATI  GL_STENCIL_TEST_TWO_SIDE_EXT  GL_STORAGE_CACHED_APPLE  GL_STORAGE_SHARED_APPLE  GL_STORAGE_SHARED_APPLE  GL_TEXT_FRAGMENT_SHADER_ATI	GL_SIGNED_LUMINANCE8_NV	
GL_SIGNED_RGB8_NV  GL_SIGNED_RGB8_UNSIGNED_ALPHA8_NV  GL_SIGNED_RGB_NV  GL_SIGNED_RGB_UNSIGNED_ALPHA_NV  GL_SIGNED_RGBA8_NV  GL_SIGNED_RGBA8_NV  GL_SIGNED_RGBA8_NV  GL_STENCIL_BACK_FAIL_ATI  GL_STENCIL_BACK_FUNC_ATI  GL_STENCIL_BACK_PASS_DEPTH_FAIL_ATI  GL_STENCIL_BACK_PASS_DEPTH_PASS_ATI  GL_STENCIL_TEST_TWO_SIDE_EXT  GL_STORAGE_CACHED_APPLE  GL_STORAGE_SHARED_APPLE  GL_STORAGE_SHARED_APPLE  GL_TEXT_FRAGMENT_SHADER_ATI	GL_SIGNED_LUMINANCE_ALPHA_NV	
GL_SIGNED_RGB8_UNSIGNED_ALPHA8_NV  GL_SIGNED_RGB_NV  GL_SIGNED_RGBAB_NV  GL_SIGNED_RGBAB_NV  GL_SIGNED_RGBAB_NV  GL_STENCIL_BACK_FAIL_ATI  GL_STENCIL_BACK_FUNC_ATI  GL_STENCIL_BACK_PASS_DEPTH_FAIL_ATI  GL_STENCIL_BACK_PASS_DEPTH_PASS_ATI  GL_STENCIL_TEST_TWO_SIDE_EXT  GL_STORAGE_CACHED_APPLE  GL_STORAGE_SHARED_APPLE  GL_STORAGE_SHARED_APPLE  GL_TEXT_FRAGMENT_SHADER_ATI	GL_SIGNED_LUMINANCE_NV	
GL_SIGNED_RGB_NV  GL_SIGNED_RGBB_UNSIGNED_ALPHA_NV  GL_SIGNED_RGBA8_NV  GL_SIGNED_RGBA_NV  GL_STENCIL_BACK_FAIL_ATI  GL_STENCIL_BACK_FUNC_ATI  GL_STENCIL_BACK_PASS_DEPTH_FAIL_ATI  GL_STENCIL_BACK_PASS_DEPTH_PASS_ATI  GL_STENCIL_TEST_TWO_SIDE_EXT  GL_STORAGE_CACHED_APPLE  GL_STORAGE_SHARED_APPLE  GL_STORAGE_SHARED_APPLE  GL_TEXT_FRAGMENT_SHADER_ATI	GL_SIGNED_RGB8_NV	
GL_SIGNED_RGB_UNSIGNED_ALPHA_NV  GL_SIGNED_RGBAB_NV  GL_SIGNED_RGBA_NV  GL_STENCIL_BACK_FAIL_ATI  GL_STENCIL_BACK_FUNC_ATI  GL_STENCIL_BACK_PASS_DEPTH_FAIL_ATI  GL_STENCIL_BACK_PASS_DEPTH_PASS_ATI  GL_STENCIL_TEST_TWO_SIDE_EXT  GL_STORAGE_CACHED_APPLE  GL_STORAGE_SHARED_APPLE  GL_STORAGE_SHARED_APPLE	GL_SIGNED_RGB8_UNSIGNED_ALPHA8_NV	
GL_SIGNED_RGBA8_NV  GL_SIGNED_RGBA_NV  GL_STENCIL_BACK_FAIL_ATI  GL_STENCIL_BACK_FUNC_ATI  GL_STENCIL_BACK_PASS_DEPTH_FAIL_ATI  GL_STENCIL_BACK_PASS_DEPTH_PASS_ATI  GL_STENCIL_TEST_TWO_SIDE_EXT  GL_STORAGE_CACHED_APPLE  GL_STORAGE_SHARED_APPLE  GL_STORAGE_SHARED_APPLE	GL_SIGNED_RGB_NV	
GL_SIGNED_RGBA_NV  GL_STENCIL_BACK_FAIL_ATI  GL_STENCIL_BACK_FUNC_ATI  GL_STENCIL_BACK_PASS_DEPTH_FAIL_ATI  GL_STENCIL_BACK_PASS_DEPTH_PASS_ATI  GL_STENCIL_TEST_TWO_SIDE_EXT  GL_STORAGE_CACHED_APPLE  GL_STORAGE_PRIVATE_APPLE  GL_STORAGE_SHARED_APPLE  GL_TEXT_FRAGMENT_SHADER_ATI	GL_SIGNED_RGB_UNSIGNED_ALPHA_NV	
GL_STENCIL_BACK_FAIL_ATI  GL_STENCIL_BACK_FUNC_ATI  GL_STENCIL_BACK_PASS_DEPTH_FAIL_ATI  GL_STENCIL_BACK_PASS_DEPTH_PASS_ATI  GL_STENCIL_TEST_TWO_SIDE_EXT  GL_STORAGE_CACHED_APPLE  GL_STORAGE_PRIVATE_APPLE  GL_STORAGE_SHARED_APPLE  GL_TEXT_FRAGMENT_SHADER_ATI	GL_SIGNED_RGBA8_NV	
GL_STENCIL_BACK_FUNC_ATI  GL_STENCIL_BACK_PASS_DEPTH_FAIL_ATI  GL_STENCIL_BACK_PASS_DEPTH_PASS_ATI  GL_STENCIL_TEST_TWO_SIDE_EXT  GL_STORAGE_CACHED_APPLE  GL_STORAGE_PRIVATE_APPLE  GL_STORAGE_SHARED_APPLE  GL_TEXT_FRAGMENT_SHADER_ATI	GL_SIGNED_RGBA_NV	
GL_STENCIL_BACK_PASS_DEPTH_FAIL_ATI  GL_STENCIL_BACK_PASS_DEPTH_PASS_ATI  GL_STENCIL_TEST_TWO_SIDE_EXT  GL_STORAGE_CACHED_APPLE  GL_STORAGE_PRIVATE_APPLE  GL_STORAGE_SHARED_APPLE  GL_TEXT_FRAGMENT_SHADER_ATI	GL_STENCIL_BACK_FAIL_ATI	
GL_STENCIL_BACK_PASS_DEPTH_PASS_ATI  GL_STENCIL_TEST_TWO_SIDE_EXT  GL_STORAGE_CACHED_APPLE  GL_STORAGE_PRIVATE_APPLE  GL_STORAGE_SHARED_APPLE  GL_TEXT_FRAGMENT_SHADER_ATI	GL_STENCIL_BACK_FUNC_ATI	
GL_STENCIL_TEST_TWO_SIDE_EXT  GL_STORAGE_CACHED_APPLE  GL_STORAGE_PRIVATE_APPLE  GL_STORAGE_SHARED_APPLE  GL_TEXT_FRAGMENT_SHADER_ATI	GL_STENCIL_BACK_PASS_DEPTH_FAIL_ATI	
GL_STORAGE_CACHED_APPLE  GL_STORAGE_PRIVATE_APPLE  GL_STORAGE_SHARED_APPLE  GL_TEXT_FRAGMENT_SHADER_ATI	GL_STENCIL_BACK_PASS_DEPTH_PASS_ATI	
GL_STORAGE_PRIVATE_APPLE  GL_STORAGE_SHARED_APPLE  GL_TEXT_FRAGMENT_SHADER_ATI	GL_STENCIL_TEST_TWO_SIDE_EXT	
GL_STORAGE_SHARED_APPLE  GL_TEXT_FRAGMENT_SHADER_ATI	GL_STORAGE_CACHED_APPLE	
GL_TEXT_FRAGMENT_SHADER_ATI	GL_STORAGE_PRIVATE_APPLE	
	GL_STORAGE_SHARED_APPLE	
GL_TEXTURE_BASE_LEVEL_SGIS	GL_TEXT_FRAGMENT_SHADER_ATI	
	GL_TEXTURE_BASE_LEVEL_SGIS	

GL_TEXTURE_BORDER_VALUES_NV
GL_TEXTURE_COMPARE_FAIL_VALUE_ARB
GL_TEXTURE_COMPARE_FUNC_ARB
GL_TEXTURE_COMPARE_MODE_ARB
GL_TEXTURE_COMPRESSED_IMAGE_SIZE_ARB
GL_TEXTURE_DEPTH_SIZE_ARB
GL_TEXTURE_DS_SIZE_NV
GL_TEXTURE_DT_SIZE_NV
GL_TEXTURE_HI_SIZE_NV
GL_TEXTURE_LO_SIZE_NV
GL_TEXTURE_MAG_SIZE_NV
GL_TEXTURE_MAX_LEVEL_SGIS
GL_TEXTURE_MAX_LOD_SGIS
GL_TEXTURE_MIN_LOD_SGIS
GL_TEXTURE_RANGE_LENGTH_APPLE
GL_TEXTURE_RANGE_POINTER_APPLE
GL_TEXTURE_SHADER_NV
GL_TEXTURE_STORAGE_HINT_APPLE
GL_TRANSPOSE_CURRENT_MATRIX_ARB
GL_UNSIGNED_INT_8_8_S8_S8_REV_NV
GL_UNSIGNED_INT_S8_S8_8_8_NV
GL_VERTEX_ARRAY_BINDING_APPLE
GL_VERTEX_ARRAY_RANGE_APPLE
GL_VERTEX_ARRAY_RANGE_LENGTH_APPLE
GL_VERTEX_ARRAY_RANGE_POINTER_APPLE
GL_VERTEX_ARRAY_STORAGE_HINT_APPLE
GL_VERTEX_ATTRIB_ARRAY_ENABLED_ARB
GL_VERTEX_ATTRIB_ARRAY_NORMALIZED_ARB

GL_VERTEX_ATTRIB_ARRAY_POINTER_ARB
GL_VERTEX_ATTRIB_ARRAY_SIZE_ARB
GL_VERTEX_ATTRIB_ARRAY_STRIDE_ARB
GL_VERTEX_ATTRIB_ARRAY_TYPE_ARB
GL_VERTEX_ATTRIB_MAP1_ARB
GL_VERTEX_ATTRIB_MAP1_COEFF_ARB
GL_VERTEX_ATTRIB_MAP1_DOMAIN_ARB
GL_VERTEX_ATTRIB_MAP1_ORDER_ARB
GL_VERTEX_ATTRIB_MAP1_SIZE_ARB
GL_VERTEX_ATTRIB_MAP2_ARB
GL_VERTEX_ATTRIB_MAP2_COEFF_ARB
GL_VERTEX_ATTRIB_MAP2_DOMAIN_ARB
GL_VERTEX_ATTRIB_MAP2_ORDER_ARB
GL_VERTEX_ATTRIB_MAP2_SIZE_ARB
GL_VERTEX_BLEND_ARB
GL_VERTEX_PROGRAM_ARB
GL_VERTEX_PROGRAM_POINT_SIZE_ARB
GL_VERTEX_PROGRAM_TWO_SIDE_ARB
GL_VIBRANCE_BIAS_NV
GL_VIBRANCE_SCALE_NV
GL_WEIGHT_ARRAY_ARB
GL_WEIGHT_ARRAY_POINTER_ARB
GL_WEIGHT_ARRAY_SIZE_ARB
GL_WEIGHT_ARRAY_STRIDE_ARB
GL_WEIGHT_ARRAY_TYPE_ARB
GL_WEIGHT_SUM_UNITY_ARB

# 10.1 Symbol Changes

This article lists the symbols added to OpenGL.framework in Mac OS X v10.1.

## **C** Symbols

All of the header files with new symbols are listed alphabetically, with their new symbols described.

### CGLMacro.h

### **Data Types & Constants**

glActiveTexture	
glBlendColor	
glBlendEquation	
glClientActiveTexture	
glCompressedTexImage1D	
g1CompressedTexImage1DARB	
glCompressedTexImage2D	
glCompressedTexImage2DARB	
glCompressedTexImage3D	
glCompressedTexImage3DARB	
glCompressedTexSubImage1D	
glCompressedTexSubImage1DARB	
glCompressedTexSubImage2D	
glCompressedTexSubImage2DARB	
glCompressedTexSubImage3D	

glCompressedTexSubImage3DARB
glDrawRangeElements
glGetCompressedTexImage
glGetCompressedTexImageARB
glLoadTransposeMatrixd
glLoadTransposeMatrixdARB
glLoadTransposeMatrixf
glLoadTransposeMatrixfARB
glMultiTexCoord1d
glMultiTexCoord1dv
glMultiTexCoord1f
glMultiTexCoord1fv
glMultiTexCoord1i
glMultiTexCoord1iv
glMultiTexCoord1s
glMultiTexCoord1sv
glMultiTexCoord2d
glMultiTexCoord2dv
glMultiTexCoord2f
glMultiTexCoord2fv
glMultiTexCoord2i
glMultiTexCoord2iv
glMultiTexCoord2s
glMultiTexCoord2sv
glMultiTexCoord3d
glMultiTexCoord3dv
glMultiTexCoord3f
glMultiTexCoord3fv

glMultiTexCoord3i
glMultiTexCoord3iv
glMultiTexCoord3s
glMultiTexCoord3sv
glMultiTexCoord4d
g1MultiTexCoord4dv
glMultiTexCoord4f
glMultiTexCoord4fv
g1MultiTexCoord4i
glMultiTexCoord4iv
g1MultiTexCoord4s
g]MultiTexCoord4sv
glMultTransposeMatrixd
glMultTransposeMatrixdARB
glMultTransposeMatrixf
glMultTransposeMatrixfARB
glSampleCoverage
glSampleCoverageARB
glSamplePass
glSamplePassARB

## CGLRenderers.h

### **Data Types & Constants**

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

kCGLRendererGeForce2MXID	Specifies the NVIDIA GeForce2MX renderer.
kCGLRendererGeForce3ID	Specifies the NVIDIA GeForce3 renderer.

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## CGLTypes.h

### **Data Types & Constants**

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

kCGLPFASampleBuffers	The number of multisample buffers. The associated value is a nonnegative integer that indicates the number of existing independent sample buffers. Typically, the value is 0 if no multi-sample buffer exists or 1. This attribute is not useful in the attribute array.
kCGLPFASamples	The number of samples per multisample buffer. The associated value is a nonnegative integer that indicates the desired number of samples that can be taken within a single pixel. The smallest sample buffer with at least the specified number of samples is preferred.
kCGLRPMaxSampleBuffers	The associated value is the maximum number of independent sample buffers supported by the renderer. Typically, the value is 0 if no multisample buffer exists, or 1 if one exists.
kCGLRPMaxSamples	The associated value is the maximum number of samples per pixel that the renderer supports.

## gl.h

#### **Functions**

glActiveTexture	
glClientActiveTexture	
glCompressedTexImage1D	
glCompressedTexImage2D	
glCompressedTexImage3D	
glCompressedTexSubImage1D	
glCompressedTexSubImage2D	
g1CompressedTexSubImage3D	
glGetCompressedTexImage	
glLoadTransposeMatrixd	

glLoadTransposeMatrixf
glMultiTexCoord1d
g]MultiTexCoord1dv
g]MultiTexCoord1f
glMultiTexCoord1fv
glMultiTexCoord1i
glMultiTexCoord1iv
glMultiTexCoord1s
glMultiTexCoord1sv
glMultiTexCoord2d
glMultiTexCoord2dv
glMultiTexCoord2f
glMultiTexCoord2fv
glMultiTexCoord2i
glMultiTexCoord2iv
glMultiTexCoord2s
glMultiTexCoord2sv
glMultiTexCoord3d
glMultiTexCoord3dv
glMultiTexCoord3f
glMultiTexCoord3fv
glMultiTexCoord3i
glMultiTexCoord3iv
glMultiTexCoord3s
glMultiTexCoord3sv
glMultiTexCoord4d
glMultiTexCoord4dv
glMultiTexCoord4f

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glMultiTexCoord4fv	
g]MultiTexCoord4i	
g]MultiTexCoord4iv	
glMultiTexCoord4s	
glMultiTexCoord4sv	
glMultTransposeMatrixd	
glMultTransposeMatrixf	
glSampleCoverage	
glSamplePass	

### **Data Types & Constants**

GL_ACTIVE_TEXTURE	
GL_ADD_SIGNED	
GL_ALIASED_LINE_WIDTH_RANGE	
GL_ALIASED_POINT_SIZE_RANGE	
GL_CLAMP_TO_BORDER	
GL_CLIENT_ACTIVE_TEXTURE	
GL_COMBINE	
GL_COMBINE_ALPHA	
GL_COMBINE_RGB	
GL_COMPRESSED_ALPHA	
GL_COMPRESSED_INTENSITY	
GL_COMPRESSED_LUMINANCE	
GL_COMPRESSED_LUMINANCE_ALPHA	
GL_COMPRESSED_RGB	
GL_COMPRESSED_RGBA	
GL_COMPRESSED_TEXTURE_FORMATS	

GL_CONSTANT
GL_CONSTANT_BORDER
GL_CONVOLUTION_BORDER_COLOR
GL_DOT3_RGB
GL_DOT3_RGBA
GL_INTERPOLATE
GL_LIGHT_MODEL_COLOR_CONTROL
GL_MAX_CUBE_MAP_TEXTURE_SIZE
GL_MAX_ELEMENTS_INDICES
GL_MAX_ELEMENTS_VERTICES
GL_MAX_TEXTURE_UNITS
GL_MULTISAMPLE
GL_MULTISAMPLE_BIT
GL_NORMAL_MAP
GL_NUM_COMPRESSED_TEXTURE_FORMATS
GL_OPERANDO_ALPHA
GL_OPERANDO_RGB
GL_OPERAND1_ALPHA
GL_OPERAND1_RGB
GL_OPERAND2_ALPHA
GL_OPERAND2_RGB
GL_OPERAND3_ALPHA
GL_OPERAND3_RGB
GL_OPERAND4_ALPHA
GL_OPERAND4_RGB
GL_OPERAND5_ALPHA
GL_OPERAND5_RGB
GL_OPERAND6_ALPHA

GL_OPERAND6_RGB	
GL_OPERAND7_ALPHA	
GL_OPERAND7_RGB	
GL_POST_COLOR_MATRIX_ALPHA_BIAS	
GL_PREVIOUS	
GL_PRIMARY_COLOR	
GL_PROXY_TEXTURE_CUBE_MAP	
GL_REFLECTION_MAP	
GL_REPLICATE_BORDER	
GL_RGB_SCALE	
GL_SAMPLE_ALPHA_TO_COVERAGE	
GL_SAMPLE_ALPHA_TO_ONE	
GL_SAMPLE_BUFFERS	
GL_SAMPLE_COVERAGE	
GL_SAMPLE_COVERAGE_INVERT	
GL_SAMPLE_COVERAGE_VALUE	
GL_SAMPLES	
GL_SEPARATE_SPECULAR_COLOR	
GL_SINGLE_COLOR	
GL_SMOOTH_LINE_WIDTH_GRANULARITY	
GL_SMOOTH_LINE_WIDTH_RANGE	
GL_SMOOTH_POINT_SIZE_GRANULARITY	
GL_SMOOTH_POINT_SIZE_RANGE	
GL_SOURCEO_ALPHA	
GL_SOURCEO_RGB	
GL_SOURCE1_ALPHA	
GL_SOURCE1_RGB	
GL_SOURCE2_ALPHA	

GL_SOURCE3_ALPHA  GL_SOURCE4_ALPHA  GL_SOURCE4_RGB  GL_SOURCE5_ALPHA  GL_SOURCE5_RGB  GL_SOURCE6_RGB
GL_SOURCE4_ALPHA  GL_SOURCE5_ALPHA  GL_SOURCE5_RGB  GL_SOURCE6_ALPHA
GL_SOURCE4_RGB  GL_SOURCE5_ALPHA  GL_SOURCE5_RGB  GL_SOURCE6_ALPHA
GL_SOURCE5_ALPHA  GL_SOURCE6_ALPHA
GL_SOURCE5_RGB GL_SOURCE6_ALPHA
GL_SOURCE6_ALPHA
GL_SOURCE6_RGB
GL_SOURCE7_ALPHA
GL_SOURCE7_RGB
GL_SUBTRACT
GL_TEXTURE0
GL_TEXTURE1
GL_TEXTURE10
GL_TEXTURE11
GL_TEXTURE12
GL_TEXTURE13
GL_TEXTURE14
GL_TEXTURE15
GL_TEXTURE16
GL_TEXTURE17
GL_TEXTURE18
GL_TEXTURE19
GL_TEXTURE2
GL_TEXTURE20
GL_TEXTURE21
GL_TEXTURE22

GL_TEXTURE23	
GL_TEXTURE24	
GL_TEXTURE25	
GL_TEXTURE26	
GL_TEXTURE27	
GL_TEXTURE28	
GL_TEXTURE29	
GL_TEXTURE3	
GL_TEXTURE30	
GL_TEXTURE31	
GL_TEXTURE4	
GL_TEXTURE5	
GL_TEXTURE6	
GL_TEXTURE7	
GL_TEXTURE8	
GL_TEXTURE9	
GL_TEXTURE_BINDING_3D	
GL_TEXTURE_BINDING_CUBE_MAP	
GL_TEXTURE_COMPRESSED	
GL_TEXTURE_COMPRESSION_HINT	
GL_TEXTURE_CUBE_MAP	
GL_TEXTURE_CUBE_MAP_NEGATIVE_X	
GL_TEXTURE_CUBE_MAP_NEGATIVE_Y	
GL_TEXTURE_CUBE_MAP_NEGATIVE_Z	
GL_TEXTURE_CUBE_MAP_POSITIVE_X	
GL_TEXTURE_CUBE_MAP_POSITIVE_Y	
GL_TEXTURE_CUBE_MAP_POSITIVE_Z	
GL_TEXTURE_IMAGE_SIZE	

GL_TRANSPOSE_COLOR_MATRIX	
GL_TRANSPOSE_MODELVIEW_MATRIX	
GL_TRANSPOSE_PROJECTION_MATRIX	
GL_TRANSPOSE_TEXTURE_MATRIX	
GL_VERSION_1_3	

## glext.h

#### **Functions**

All of the new functions in this header file are listed alphabetically, with links to documentation and abstracts, if available.

```
glCombinerStageParameterfvNV

glFinishTexture

glGetCombinerStageParameterfvNV

glPNTrianglesfATIX

glPNTrianglesiATIX
```

#### **Data Types & Constants**

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

```
GL_ADD_SIGNED_ARB

GL_APPLE_client_address_range

GL_APPLE_client_storage

GL_APPLE_ycbcr_422

GL_ARB_texture_border_clamp

GL_ARB_texture_env_combine

GL_ARB_texture_env_dot3

GL_ATIX_pn_triangles

GL_CLAMP_TO_BORDER_ARB
```

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GL_COMBINE_ALPHA_ARB
GL_COMBINE_ARB
GL_COMBINE_RGB_ARB
GL_CONSTANT_ARB
GL_DOT3_RGB_ARB
GL_DOT3_RGBA_ARB
GL_EXT_texture_compression_s3tc
GL_EXT_texture_rectangle
GL_INTERPOLATE_ARB
GL_MAX_PN_TRIANGLES_TESSELATION_LEVEL_ATIX
GL_MAX_RECTANGLE_TEXTURE_SIZE_EXT
GL_NV_register_combiners2
GL_NV_vertex_program
GL_OPERANDO_ALPHA_ARB
GL_OPERANDO_RGB_ARB
GL_OPERAND1_ALPHA_ARB
GL_OPERAND1_RGB_ARB
GL_OPERAND2_ALPHA_ARB
GL_OPERAND2_RGB_ARB
GL_OPERAND3_ALPHA_ARB
GL_OPERAND3_RGB_ARB
GL_OPERAND4_ALPHA_ARB
GL_OPERAND4_RGB_ARB
GL_OPERAND5_ALPHA_ARB
GL_OPERAND5_RGB_ARB
GL_OPERAND6_ALPHA_ARB
GL_OPERAND6_RGB_ARB
GL_OPERAND7_ALPHA_ARB

GL_OPERAND7_RGB_ARB
GL_PER_STAGE_CONSTANTS_NV
GL_PN_TRIANGLES_ATIX
GL_PN_TRIANGLES_NORMAL_MODE_ATIX
GL_PN_TRIANGLES_NORMAL_MODE_LINEAR_ATIX
GL_PN_TRIANGLES_NORMAL_MODE_QUADRATIC_ATIX
GL_PN_TRIANGLES_POINT_MODE_ATIX
GL_PN_TRIANGLES_POINT_MODE_CUBIC_ATIX
GL_PN_TRIANGLES_POINT_MODE_LINEAR_ATIX
GL_PN_TRIANGLES_TESSELATION_LEVEL_ATIX
GL_PREVIOUS_ARB
GL_PRIMARY_COLOR_ARB
GL_PROXY_TEXTURE_RECTANGLE_EXT
GL_RGB_SCALE_ARB
GL_SOURCEO_ALPHA_ARB
GL_SOURCEO_RGB_ARB
GL_SOURCE1_ALPHA_ARB
GL_SOURCE1_RGB_ARB
GL_SOURCE2_ALPHA_ARB
GL_SOURCE2_RGB_ARB
GL_SOURCE3_ALPHA_ARB
GL_SOURCE3_RGB_ARB
GL_SOURCE4_ALPHA_ARB
GL_SOURCE4_RGB_ARB
GL_SOURCE5_ALPHA_ARB
GL_SOURCE5_RGB_ARB
GL_SOURCE6_ALPHA_ARB
GL_SOURCE6_RGB_ARB

GL_SOURCE7_ALPHA_ARB	
GL_SOURCE7_RGB_ARB	
GL_SUBTRACT_ARB	
GL_TEXTURE_BINDING_RECTANGLE_EXT	
GL_TEXTURE_RECTANGLE_EXT	
GL_UNPACK_CLIENT_ADDRESS_MAX_APPLE	
GL_UNPACK_CLIENT_ADDRESS_MIN_APPLE	
GL_UNPACK_CLIENT_STORAGE_APPLE	
GL_UNSIGNED_SHORT_8_8_APPLE	
GL_UNSIGNED_SHORT_8_8_REV_APPLE	
GL_YCBCR_422_APPLE	

## glu.h

#### **Functions**

All of the new functions in this header file are listed alphabetically, with links to documentation and abstracts, if available.

```
gluBuild1DMipmapLevelsgluBuild2DMipmapLevelsgluBuild3DMipmapLevelsgluBuild3DMipmapsgluCheckExtensiongluNurbsCallbackDatagluUnProject4
```

### **Data Types & Constants**

```
GLU_NURBS_BEGIN
```

GLU_NURBS_BEGIN_DATA	
GLU_NURBS_COLOR	
GLU_NURBS_COLOR_DATA	
GLU_NURBS_END	
GLU_NURBS_END_DATA	
GLU_NURBS_ERROR	
GLU_NURBS_MODE	
GLU_NURBS_NORMAL	
GLU_NURBS_NORMAL_DATA	
GLU_NURBS_RENDERER	
GLU_NURBS_TESSELLATOR	
GLU_NURBS_TEXTURE_COORD	
GLU_NURBS_TEXTURE_COORD_DATA	
GLU_NURBS_VERTEX	
GLU_NURBS_VERTEX_DATA	
GLU_OBJECT_PARAMETRIC_ERROR	
GLU_OBJECT_PATH_LENGTH	
GLU_VERSION_1_3	

## gluContext.h

#### **Functions**

All of the new functions in this header file are listed alphabetically, with links to documentation and abstracts, if available.

gluBuild1DMipmapLevelsCTX	
gluBuild2DMipmapLevelsCTX	
gluBuild3DMipmapLevelsCTX	
gluBuild3DMipmapsCTX	

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## gluMacro.h

### Data Types & Constants

gluBuild1DMipmapLevels	
gluBuild2DMipmapLevels	
gluBuild3DMipmapLevels	
gluBuild3DMipmaps	

# **Document Revision History**

This table describes the changes to OpenGL Reference Update.

Date	Notes
2007-07-18	Updated with the symbols added to the OpenGL framework in Mac OS X v10.5.
2005-04-29	New document that summarizes the symbols added to the OpenGL framework in Mac OS X v10.4.

**Document Revision History**