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translate(x.y.z)

rotate(x,y,z) LEGEND scale(x,y,z) color: Color(n.g.b.a=255) inverse() vec: Vector3 / Vector4 shadow(planeVec.li9htVec) reflect(planeVec) mat: Matrix tex: Material / RTT / texture handle lookAt(eye.at.up) rtt: Render Target m(row.col) texHandle: texture handle row(index) eyelatium: Vector3 col(index) key: "a" or KEY_SPACE etc. bind(kind) VECTOR **EVENTS** Vector3(x,y,z) _initO Vector4(x,9,z,w) _shutdown() cross(vec) Lupdate(dt) get() colorO _render() _render2D() ma9() ma9590 lere(b.t) ShowMessage(caption, text) ne9() LogString(text) normalize() ExitGame() m(index.val) RestartGame() x0,90,z0,w0 IsDebu9Mode() RENDERER SetFPS(fps) ClearScene(color) dofile(scriptName) CameraPerspective(fov.near.far.flipLH) loadfile(fileName) CameraOrthographic(w.h.near.fart.flipLH) 9etTime() BindTexture(tex) MATH GetResolution() GetMatrix(kind) Color(r.9.b.a=255) RenderState(kind.state) ColorLinear(r.9.b.a=1.0) ToggleWireframe(state) str2vec(text) SetFog(color.kind.start.end) vec2str(vec) SetFog(color.kind.density) MATRIX ClearFo90 MatrixO

SamplerState(stage.kind.state)

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EnableLi9hting(state) 9etTar9ets() AmbientColor(color) 9etNodes() ClearTar9et() findMesh(name) DrawBox(mat.dims.color) findLi9ht(name) DrawQuad(x1,x2,91,92,color,flipY) findTar9et(name) CullMode(mode) findNode(name) FillScreen(color,flipY) getMeta(name) RegisterFontFile(path) MESH SCENE MeshO Scene(modelName.loadMaterials=true.optimizeMesh=false) addFGroup(part) draw(mat) addPart(part) drawSubset(index.mat) draw(mat) loadModel(modelName.loadMaterials=true.optimizeMesh=false) cloneO loadScene(modelName.loadMaterials=true.optimizeMesh=false) 9etFGroups() 9etMeshes() 9etParts() 9etLi9hts() clearO getFlattenNodes() setName(name) 9etTar9ets() 9etName() findMesh(name) setMaterial(sta9e.tex) findLight(name) 9etMaterial(stage) findTar9et(name) PART / FACEGROUP 9etRootNode() FaceGroup() NODE clone() NodeO addVertex(vert) cloneO addIndex(index) 9etName() addTrian9le(a,b,c) 9etTransform() setMaterial(stage.mat) setTransform(mat) 9etMaterial(stage) 9etFinalTransform() 9etMaterialStage() addNode(node) draw(mat) addMesh(mesh) buildO draw(mat) calcNormals() drawSubset(index, mat) clear() 9etMeshes() getVertices() getMeshParts() 9etIndices() getLights()

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MATERIAL
Material()
Material(textureName)
Material(w.h)
setSamplerState(sampler.state)
9etSamplerState(sampler)
loadFile(textureName)
resO
dataO
9etHandle(slot)
setHandle(slot.texHandle)
setDiffuse(color)
setAmbient(color)
setSpecular(color)
setEmission(color)
setPower(val)
setOpacity(val)
alphaIsTransparency(state)
setShaded(state)
FONT
Font(fontFamily)
drawText(color.text.x.y.w=0.h=0)
RENDER TARGET
RenderTar9et()
RenderTar9et(w.h)
RenderTar9et(w.h.hasDerth=false)
9etHandle()
bindO
EFFECT
Effect(effectPath)
be9in(technique)
endO.flushO
be9inPass(pass)
endPass()
commitO
setBool(name.val)
setFloat(name.val)

setMatrix(name.mat) setVector3(name.vec) setVector4(name,vec) setInteger(name.val) setTexture(name,texHandle) setTexture(name.slot.mat) setTexture(name.rtt) LIGHT Light(slot) enable(state.slot) setPosition(vec) setDirection(vec) setDiffuse(color) setSpecular(color) setAmbient(color) setRan9e(val) setFalloff(val) setAttenuation(a,b,c) setInnerAngle(val) setOuterAngle(val) setType(kind) setSlot(slot) 9etType() 9etSlot()

INPUT

GetKey(key)
GetKeyDown(key)
GetKeyUp(key)
GetMouseXY()
GetMouseDelta()
SetMouseXY(x.y)
GetMouse(button)
GetMouseDown(button)
GetMouseUp(button)
IsCursorVisible()
ShowCursor(state)

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GetCursorMode()
SetCursorMode(mode)
ShowCursor(state)

GLOBALS

RENDERER

PRIMITIVEKIND_POINTLIST
PRIMITIVEKIND_LINELIST
PRIMITIVEKIND_LINESTRIP
PRIMITIVEKIND_TRIANGLELIST
PRIMITIVEKIND_TRIANGLESTRIP
PRIMITIVEKIND_TRIANGLEFAN

MATRIXKIND_VIEW

MATRIXKIND_PROJECTION

MATRIXKIND_TEXTURE0

MATRIXKIND_TEXTURE1

MATRIXKIND_TEXTURE2

MATRIXKIND_TEXTURE3

MATRIXKIND_TEXTURE4

MATRIXKIND_TEXTURE5

MATRIXKIND_TEXTURE6

MATRIXKIND_TEXTURE7

MATRIXKIND_WORLD

CLEARFLAG_COLOR

CLEARFLAG_DEPTH

CLEARFLAG_STENCIL

CLEARFLAG_STANDARD

TEXTURESLOT_ALBEDO

TEXTURESLOT_SPECULAR

TEXTURESLOT_NORMAL

TEXTURESLOT_DISPLACE

TEXTURESLOT_USER_END

MAX_TEXTURE_SLOTS

FOGKIND_NONE
FOGKIND_EXP
FOGKIND_EXP2
FOGKIND_LINEAR

WORLD VIEW PROJ

CULLKIND_NONE
CULLKIND_CW
CULLKIND_CCW

LIGHTKIND_DIRECTIONAL

LIGHTKIND_POINT

RENDERSTATE_ZENABLE
RENDERSTATE_FILLMODE
RENDERSTATE_SHADEMODE
RENDERSTATE_ZWRITEENABLE
RENDERSTATE_ALPHATESTENABLE

RENDERSTATE_LASTPIXEL
RENDERSTATE_SRCBLEND
RENDERSTATE_DESTBLEND
RENDERSTATE_CULLMODE
RENDERSTATE_ZFUNC
RENDERSTATE_ALPHAREF
RENDERSTATE_ALPHAFUNC
RENDERSTATE_DITHERENABLE
RENDERSTATE_ALPHABLENDENABLE

RENDERSTATE_FOGENABLE

RENDERSTATE_SPECULARENABLE

RENDERSTATE_FOGCOLOR

RENDERSTATE_FOGTABLEMODE



RENDERSTATE_FOGSTART

RENDERSTATE_FOGEND

RENDERSTATE_FOGDENSITY

RENDERSTATE_RANGEFOGENABLE

RENDERSTATE_STENCILENABLE

RENDERSTATE_STENCILFAIL

RENDERSTATE_STENCILZFAIL

RENDERSTATE_STENCILPASS

RENDERSTATE_STENCILFUNC

RENDERSTATE_STENCILREF

RENDERSTATE_STENCILMASK

RENDERSTATE_STENCILWRITEMASK

RENDERSTATE_TEXTUREFACTOR

RENDERSTATE_WRAP@

RENDERSTATE_WRAP1

RENDERSTATE_WRAP2

RENDERSTATE_WRAP3

RENDERSTATE_WRAP4

RENDERSTATE_WRAP5

RENDERSTATE_WRAP6

RENDERSTATE_WRAP7

RENDERSTATE_CLIPPING

RENDERSTATE_LIGHTING

RENDERSTATE_AMBIENT

RENDERSTATE_FOGVERTEXMODE

RENDERSTATE_COLORVERTEX

RENDERSTATE_LOCALVIEWER

RENDERSTATE_NORMALIZENORMALS

RENDERSTATE_DIFFUSEMATERIALSOURCE

RENDERSTATE_SPECULARMATERIALSOURCE

RENDERSTATE_AMBIENTMATERIALSOURCE

RENDERSTATE_EMISSIVEMATERIALSOURCE

RENDERSTATE_VERTEXBLEND

RENDERSTATE_CLIPPLANEENABLE

RENDERSTATE_POINTSIZE

RENDERSTATE_POINTSIZE_MIN

RENDERSTATE_POINTSPRITEENABLE

RENDERSTATE_POINTSCALEENABLE

RENDERSTATE_POINTSCALE_A

RENDERSTATE_POINTSCALE_B

RENDERSTATE_POINTSCALE_C

RENDERSTATE_MULTISAMPLEANTIALIAS

RENDERSTATE_MULTISAMPLEMASK

RENDERSTATE_PATCHEDGESTYLE

RENDERSTATE_DEBUGMONITORTOKEN

RENDERSTATE_POINTSIZE_MAX

RENDERSTATE_INDEXEDVERTEXBLENDENABLE

RENDERSTATE_COLORWRITEENABLE

RENDERSTATE_TWEENFACTOR

RENDERSTATE_BLENDOP

RENDERSTATE_NORMALDEGREE

RENDERSTATE_SCISSORTESTENABLE

RENDERSTATE_SLOPESCALEDEPTHBIAS

RENDERSTATE_ANTIALIASEDLINEENABLE

RENDERSTATE_MINTESSELLATIONLEVEL

RENDERSTATE_MAXTESSELLATIONLEVEL

RENDERSTATE_ADAPTIVETESS_X

RENDERSTATE_ADAPTIVETESS_Y

RENDERSTATE_ADAPTIVETESS_Z

RENDERSTATE_ADAPTIVETESS_W

RENDERSTATE_ENABLEADAPTIVETESSELLATION

RENDERSTATE_TWOSIDEDSTENCILMODE

RENDERSTATE_CCW_STENCILFAIL

RENDERSTATE_CCW_STENCILZFAIL

RENDERSTATE_CCW_STENCILPASS

RENDERSTATE_CCW_STENCILFUNC

RENDERSTATE_COLORWRITEENABLE1

RENDERSTATE_COLORWRITEENABLE2

RENDERSTATE_COLORWRITEENABLE3

RENDERSTATE_BLENDFACTOR

RENDERSTATE_SRGBWRITEENABLE

RENDERSTATE_DEPTHBIAS

RENDERSTATE_WRAP8

RENDERSTATE_WRAP9



TEXA_CLAMP

TEXA_BORDER

TEXA_MIRRORONCE

INPUT RENDERSTATE_WRAP10 MOUSE_LEFT_BUTTON RENDERSTATE_WRAP11 MOUSE_MIDDLE_BUTTON RENDERSTATE_WRAP12 MOUSE_RIGHT_BUTTON RENDERSTATE_WRAP13 MOUSE_WHEEL_UP RENDERSTATE_WRAP14 MOUSE_WHEEL_DOWN RENDERSTATE_WRAP15 RENDERSTATE_SEPARATEALPHABLENDENABLE CURSORMODE_DEFAULT RENDERSTATE_SRCBLENDALPHA CURSORMODE_CENTERED RENDERSTATE_DESTBLENDALPHA CURSORMODELWRAPPED RENDERSTATE_BLENDOPALPHA **KEY_LBUTTON** SAMPLERSTATE_ADDRESSU KEY_RBUTTON SAMPLERSTATE_ADDRESSV KEY_CANCEL SAMPLERSTATE_ADDRESSW KEY_MBUTTON SAMPLERSTATE_BORDERCOLOR KEY_XBUTTON1 SAMPLERSTATE_MAGFILTER KEY_XBUTTON2 SAMPLERSTATE_MINFILTER KEY_BACK SAMPLERSTATE_MIPFILTER KEY_TAB SAMPLERSTATE_MIPMAPLODBIAS **KEY_CLEAR** SAMPLERSTATE_MAXMIPLEVEL KEY_RETURN SAMPLERSTATE_MAXANISOTROPY **KEY_SHIFT** SAMPLERSTATE_SRGBTEXTURE KEYLCONTROL SAMPLERSTATE_ELEMENTINDEX KEY_MENU SAMPLERSTATE_DMAPOFFSET KEY_PAUSE KEY_CAPITAL TEXF_NONE KEY_KANA TEXF_POINT **KEY_HANGEUL** TEXF_LINEAR KEY_HANGUL TEXF_ANISOTROPIC **KEYLJUNJA** TEXF_PYRAMIDALQUAD KEY_FINAL TEXF_GAUSSIANQUAD KEY_HANJA KEY_KANJI TEXA_WRAP KEY_ESCAPE TEXA_MIRROR **KEY_CONVERT**

KEY_NONCONVERT

KEY_ACCEPT

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KEY_MODECHANGE	KEY_F1
KEY_SPACE	KEY_F2
KEY_PRIOR	KEY_F3
KEY_NEXT	KEY_F4
KEY_END	KEY_F5
KEY_HOME	KEY_F6
KEY_LEFT	KEY_F7
KEY_UP	KEY_F8
KEY_RIGHT	KEY_F9
KEY_DOWN	KEY_F10
KEY_SELECT	KEY_F11
KEY_PRINT	KEY_F12
KEY_EXECUTE	KEY_F13
KEY_SNAPSHOT	KEY_F14
KEY_INSERT	KEY_F15
KEY_DELETE	KEY_F16
KEY_HELP	KEY_F17
KEY_LWIN	KEY_F18
KEY_RWIN	KEY_F19
KEY_APPS	KEY_F20
KEY_SLEEP	KEY_F21
KEY_NUMPAD0	KEY_F22
KEY_NUMPAD1	KEYLF23
KEY_NUMPAD2	KEY_F24
KEY_NUMPAD3	KEY_NAVIGATION_VIEW
KEY_NUMPAD4	KEY_NAVIGATION_MENU
KEY_NUMPAD5	KEY_NAVIGATION_UP
KEY_NUMPAD6	KEY_NAVIGATION_DOWN
KEY_NUMPAD7	KEY_NAVIGATION_LEFT
KEY_NUMPAD8	KEY_NAVIGATION_RIGHT
KEY_NUMPAD9	KEY_NAVIGATION_ACCEPT
KEY_MULTIPLY	KEY_NAVIGATION_CANCEL
KEY_ADD	KEYLNUMLOCK
KEY_SEPARATOR	KEY_SCROLL
KEY_SUBTRACT	KEYLOEM_NEC_EQUAL
KEYLDECIMAL	KEYLOEMLFJLJISHO
KEY_DIVIDE	KEY_OEM_FJ_MASSHOU



KEY_GAMEPAD_B

KEY_GAMEPAD_X

KEY_GAMEPAD_Y KEYLOEMLFJLTOUROKU KEYLOEM_FJ_LOYA KEY_GAMEPAD_RIGHT_SHOULDER KEY_OEM_FJ_ROYA KEY_GAMEPAD_LEFT_SHOULDER KEY_LSHIFT KEY_GAMEPAD_LEFT_TRIGGER KEY_RSHIFT KEY_GAMEPAD_RIGHT_TRIGGER KEYLLCONTROL KEY_GAMEPAD_DPAD_UP KEY_RCONTROL KEY_GAMEPAD_DPAD_DOWN **KEY_LMENU** KEY_GAMEPAD_DPAD_LEFT KEY_RMENU KEY_GAMEPAD_DPAD_RIGHT KEY_BROWSER_BACK KEY_GAMEPAD_MENU KEY_BROWSER_FORWARD KEY_GAMEPAD_VIEW KEY_BROWSER_REFRESH KEY_GAMEPAD_LEFT_THUMBSTICK_BUTTON KEY_BROWSER_STOP KEY_GAMEPAD_RIGHT_THUMBSTICK_BUTTON KEY_BROWSER_SEARCH KEY_GAMEPAD_LEFT_THUMBSTICK_UP KEY_BROWSER_FAVORITES KEY_GAMEPAD_LEFT_THUMBSTICK_DOWN KEY_BROWSER_HOME KEY_GAMEPAD_LEFT_THUMBSTICK_RIGHT KEY_VOLUME_MUTE KEY_GAMEPAD_LEFT_THUMBSTICK_LEFT KEY_VOLUME_DOWN KEY_GAMEPAD_RIGHT_THUMBSTICK_UP KEY_VOLUME_UP KEY_GAMEPAD_RIGHT_THUMBSTICK_DOWN KEY_MEDIA_NEXT_TRACK KEY_GAMEPAD_RIGHT_THUMBSTICK_RIGHT KEY_MEDIA_PREV_TRACK KEY_GAMEPAD_RIGHT_THUMBSTICK_LEFT KEY_MEDIA_STOP KEY_OEM_4 KEY_MEDIA_PLAY_PAUSE KEYLOEML5 KEY_LAUNCH_MAIL KEYLOEML6 KEY_LAUNCH_MEDIA_SELECT KEYLOEML7 KEY_LAUNCH_APP1 KEYLOEML8 KEY_LAUNCH_APP2 KEY_OEM_AX KEY_OEM_1 KEYLOEM_102 KEY_OEM_PLUS KEY_ICO_HELP KEY_OEM_COMMA KEY_ICO_00 KEY_OEM_MINUS KEY_PROCESSKEY KEY_OEM_PERIOD KEY_ICO_CLEAR KEYLOEML2 KEY_PACKET KEYLOEML3 KEYLOEM_RESET KEY_GAMEPAD_A KEY_OEM_JUMP

KEYLOEMLPA1

KEY_OEM_PA2



KEYLOEMLPA3

KEYLOEMLWSCTRL

KEYLOEMLCUSEL

KEYLOEMLATTN

KEYLOEMLFINISH

KEYLOEMLCOPY

KEYLOEMLAUTO

KEYLOEMLENLW

KEY_OEM_BACKTAB

KEY_ATTN

KEY_CRSEL

KEYLEXSEL

KEY_EREOF

KEYLPLAY

KEY_ZOOM

KEY_NONAME

KEY_PA1

KEYLOEMLCLEAR