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play()

Pause() LEGEND stopO color: Color(n.g.b.a=255) setVolume(vol) vec: Vector3 / Vector4 setPan(val) mat: Matrix setCursor(val) tex: Material / RTT / texture handle loop(state) rtt: Render Target isLoopin90 texHandle: texture handle isPlayin9() eyelatium: Vector3 9etVolume() key: "a" or KEY_SPACE etc. 9etPan() su.tv: UV coordinates (floats) 9etCursor() nx.ny.nz: normal 9etData() 01.02.03: Ventex MATH **EVENTS** Color(r,9,b,a=255) LimitO ColorLinear(r.9.b.a=1.0) str2vec(text) _shutdown() vec2str(vec) _update(dt) MATRIX _render() _render2DO MatrixO. _charInput(letter) translate(x.y.z) rotate(x,y,z) scale(x,y,z) ShowMessage(caption, text) inverse() LogString(text) shadow(planeVec.li9htVec) ExitGame() reflect(planeVec) RestartGame() lookAt(eye.at.up) IsDebu9Mode() m(row.col) SetFPS(fps) row(index) dofile(scriptName) col(index) loadfile(fileName) bind(kind) 9etTime() VECTOR Vector3(x,y,z) AUDIO Vector4(x,9,z,w) cross(vec) SOUND Sound(wavPath) get()

colorO

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ma9()	
ma959()	
lerp(b,t)	
ne9()	
normalizeO	
m(index.val)	
x0,90,z0,w0	
ENDERER	
ClearScene(color)	
CameraPerspective(fov.near.far.flipLH)	
CameraOrtho9raphic(w.h.near.fart.flipLH)	
BindTexture(tex)	
GetResolution()	
GetMatrix(kind)	
IsFocused()	
RenderState(kind.state)	
To99leWireframe(state)	
SetFo9(color.kind.start.end)	
SetFo9(color.kind.density)	
ClearFo9()	
SamplerState(sta9e.kind.state)	
EnableLi9htin9(state)	
ToggleDepthTest(state)	
AmbientColor(color)	
ClearTar9etO	
DrawBox(mat.dims.color)	
DrawQuad(x1.x2.91.92.color.flipY)	
DrawQuad3D(x1.x2.91.92.z1.z2.color)	
DrawPoly9on(v1.v2.v3)	
CullMode(mode)	
FillScreen(color,flipY)	
RegisterFontFile(path)	

SCENE

Scene(modelName.loadMaterials=true.optimizeMesh=false)
draw(mat)

```
drawSubset(index.mat)
  loadModel(modelName.loadMaterials=true.optimizeMesh=false)
  loadScene(modelName.loadMaterials=true.optimizeMesh=false)
  9etMeshes()
  9etLi9hts()
  9etFlattenNodes()
  9etTar9ets()
  findMesh(name)
  findLi9ht(name)
  findTar9et(name)
  9etRootNode()
NODE
  NodeO
  cloneO
  9etName()
  setName(name)
```

9etTransform()

addNode(node)

addMesh(mesh)

draw(mat)

9etMeshes()

9etLi9hts()

9etNodes()

9etTar9ets()

findMesh(name)

findLight(name)
findTarget(name)

findNode(name)

9etMeta(name)

9etMeshParts()

setTransform(mat)

9etFinalTransform()

drawSubset(index. mat)



res() dataO MESH 9etHandle(slot) MeshO setHandle(slot.texHandle) addFGroup(part) setDiffuse(color) addPart(part) setAmbient(color) draw(mat) setSpecular(color) cloneO setEmission(color) 9etFGroups() setPower(val) 9etParts() setOpacity(val) clearO alphaIsTransparency(state) setName(name) alphaTest(state) 9etName() setAlphaRef(val) setMaterial(stage.tex) setShaded(state) getMaterial(stage) VERTEX PART / FACEGROUP Vertex(x,9,z,su,tv,color,nx,n9,nz) FaceGroup() get() clone() FONT addVertex(vert) Font(fontFamily,size,boldness,italic) addIndex(index) drawText(color.text.x.y.w=0.h=0.fla9s) addTrian9le(a.b.c) measureText(text.fla9s.width) setMaterial(stage.mat) RENDER TARGET getMaterial(stage) RenderTar9et() getMaterialStage() RenderTar9et(w.h) draw(mat) RenderTar9et(w.h.hasDepth=false) buildO 9etHandle() calcNormals() bindO clear() **EFFECT** getVertices() Effect(effectPath) 9etIndices() begin(technique) MATERIAL endO.flushO. Material() beginPass(pass) Material(textureName) endPass() Material(w.h) commitO setSamplerState(sampler.state) setBool(name.val) 9etSamplerState(sampler) setFloat(name.val) loadFile(textureName)

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) setInnerAn9le(val) setOuterAngle(val) setType(kind) setSlot(slot) 9etType() 9etSlot()

INPUT

GetKey(key) GetKeyDown(key) GetKeyUp(key) GetMouseXYO GetMouseDelta() SetMouseXY(x.9) GetMouse(button) GetMouseDown(button) GetMouseUp(button) IsCursorVisible() ShowCursor(state) 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

CLEARFLAG_COLOR CLEARFLAG_DEPTH CLEARFLAG_STENCIL CLEARFLAGLSTANDARD

MATRIXKIND_WORLD

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 LIGHTKIND_SPOT

RENDERSTATE_ZENABLE
RENDERSTATE_FILLMODE
RENDERSTATE_SHADEMODE
RENDERSTATE_ZWRITEENABLE
RENDERSTATE_ALPHATESTENABLE

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_WRAP1
RENDERSTATE_WRAP2
RENDERSTATE_WRAP3
RENDERSTATE_WRAP4
RENDERSTATE_WRAP5
RENDERSTATE_WRAP5
RENDERSTATE_WRAP6
RENDERSTATE_WRAP7
RENDERSTATE_URAP7
RENDERSTATE_CLIPPING
RENDERSTATE_LIGHTING

RENDERSTATE_TEXTUREFACTOR

RENDERSTATE_FOGVERTEXMODE RENDERSTATE_COLORVERTEX RENDERSTATE_LOCALVIEWER

RENDERSTATE_AMBIENT

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

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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

RENDERSTATE_WRAP10

RENDERSTATE_WRAP11

RENDERSTATE_WRAP12

RENDERSTATE_WRAP13

RENDERSTATE_WRAP14

RENDERSTATE_WRAP15

RENDERSTATE_SEPARATEALPHABLENDENABLE

RENDERSTATE_SRCBLENDALPHA

RENDERSTATE_DESTBLENDALPHA

RENDERSTATE_BLENDOPALPHA

SAMPLERSTATE_ADDRESSU

SAMPLERSTATE_ADDRESSV

SAMPLERSTATE_ADDRESSW

SAMPLERSTATE_BORDERCOLOR

SAMPLERSTATE_MAGFILTER

SAMPLERSTATE_MINFILTER

SAMPLERSTATE_MIPFILTER

SAMPLERSTATE_MIPMAPLODBIAS

SAMPLERSTATE_MAXMIPLEVEL

SAMPLERSTATE_MAXANISOTROPY

SAMPLERSTATE_SRGBTEXTURE

SAMPLERSTATE_ELEMENTINDEX

SAMPLERSTATE_DMAPOFFSET

TEXF_NONE

TEXF_POINT

TEXF_LINEAR

TEXF_ANISOTROPIC

TEXF_PYRAMIDALQUAD

TEXF_GAUSSIANQUAD

TEXA_WRAP

TEXA_MIRROR

TEXALCLAMP.

TEXA_BORDER

TEXALMIRRORONCE

INPUT

MOUSE_LEFT_BUTTON

MOUSE_MIDDLE_BUTTON



KEY_PRIOR

MOUSE_RIGHT_BUTTON KEY_NEXT MOUSE_WHEEL_UP KEY_END KEYLHOME MOUSE_WHEEL_DOWN **KEY_LEFT** CURSORMODE_DEFAULT **KEY_UP** KEY_RIGHT CURSORMODE_CENTERED CURSORMODE_WRAPPED **KEY_DOWN** KEY_SELECT **KEY_PRINT KEY_LBUTTON** KEY_RBUTTON KEY_EXECUTE KEY_CANCEL KEY_SNAPSHOT KEY_MBUTTON **KEY_INSERT** KEY_XBUTTON1 **KEY_DELETE** KEY_XBUTTON2 **KEY_HELP** KEY_BACK **KEY_LWIN** KEY_TAB **KEY_RWIN KEY_CLEAR** KEY_APPS KEY_SLEEP **KEY_RETURN KEY_SHIFT** KEY_NUMPADØ KEYLCONTROL KEY_NUMPAD1 KEY_MENU KEY_NUMPAD2 KEY_PAUSE KEY_NUMPAD3 KEY_CAPITAL KEY_NUMPAD4 KEY_KANA KEY_NUMPAD5 **KEY_HANGEUL** KEY_NUMPAD6 **KEY_HANGUL** KEY_NUMPAD7 **KEY_JUNJA** KEY_NUMPAD8 **KEY_FINAL** KEY_NUMPAD9 KEY_HANJA **KEY_MULTIPLY** KEY_KANJI KEY_ADD KEY_ESCAPE KEY_SEPARATOR KEY_CONVERT KEY_SUBTRACT KEY_NONCONVERT KEY_DECIMAL **KEY_DIVIDE** KEY_ACCEPT KEY_F1 KEY_MODECHANGE KEY_F2 KEY_SPACE

KEYLF3

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KEY_F4	KEYLLSHIFT
KEY_F5	KEYLRSHIFT
KEY_F6	KEYLLCONTROL
KEY_F7	KEYLRCONTROL
KEY_F8	KEY_LMENU
KEY_F9	KEY_RMENU
KEY_F10	KEY_BROWSER_BACK
KEY_F11	KEY_BROWSER_FORWARD
KEY_F12	KEY_BROWSER_REFRESH
KEY_F13	KEY_BROWSER_STOP
KEY_F14	KEY_BROWSER_SEARCH
KEY_F15	KEY_BROWSER_FAVORITES
KEY_F16	KEY_BROWSER_HOME
KEY_F17	KEY_VOLUME_MUTE
KEY_F18	KEY_VOLUME_DOWN
KEY_F19	KEY_VOLUME_UP
KEY_F20	KEY_MEDIA_NEXT_TRACK
KEY_F21	KEY_MEDIA_PREV_TRACK
KEY_F22	KEY_MEDIA_STOP
KEY_F23	KEY_MEDIA_PLAY_PAUSE
KEY_F24	KEY_LAUNCH_MAIL
KEY_NAVIGATION_VIEW	KEY_LAUNCH_MEDIA_SELECT
KEY_NAVIGATION_MENU	KEY_LAUNCH_APP1
KEY_NAVIGATION_UP	KEY_LAUNCH_APP2
KEY_NAVIGATION_DOWN	KEY_OEM_1
KEY_NAVIGATION_LEFT	KEY_OEM_PLUS
KEY_NAVIGATION_RIGHT	KEY_OEM_COMMA
KEY_NAVIGATION_ACCEPT	KEYLOEM_MINUS
KEY_NAVIGATION_CANCEL	KEYLOEM_PERIOD
KEYLNUMLOCK	KEYLOEML2
KEY_SCROLL	KEYLOEML3
KEYLOEM_NECLEQUAL	KEY_GAMEPAD_A
KEYLOEM_FJ_JISHO	KEY_GAMEPAD_B
KEYLOEM_FJ_MASSHOU	KEY_GAMEPAD_X
KEY_OEM_FJ_TOUROKU	KEY_GAMEPAD_Y
KEY_OEM_FJ_LOYA	KEY_GAMEPAD_RIGHT_SHOULDER
KEY_OEM_FJ_ROYA	KEY_GAMEPAD_LEFT_SHOULDER



KEY_GAMEPAD_LEFT_TRIGGER

KEY_GAMEPAD_RIGHT_TRIGGER

KEY_GAMEPAD_DPAD_UP

KEY_GAMEPAD_DPAD_DOWN

KEY_GAMEPAD_DPAD_LEFT

KEY_GAMEPAD_DPAD_RIGHT

KEY_GAMEPAD_MENU

KEY_GAMEPAD_VIEW

KEY_GAMEPAD_LEFT_THUMBSTICK_BUTTON

KEY_GAMEPAD_RIGHT_THUMBSTICK_BUTTON

KEY_GAMEPAD_LEFT_THUMBSTICK_UP

KEY_GAMEPAD_LEFT_THUMBSTICK_DOWN

KEY_GAMEPAD_LEFT_THUMBSTICK_RIGHT

KEY_GAMEPAD_LEFT_THUMBSTICK_LEFT

KEY_GAMEPAD_RIGHT_THUMBSTICK_UP

KEY_GAMEPAD_RIGHT_THUMBSTICK_DOWN

KEY_GAMEPAD_RIGHT_THUMBSTICK_RIGHT

KEY_GAMEPAD_RIGHT_THUMBSTICK_LEFT

KEY_OEM_4

KEYLOEML5

KEYLOEML6

KEYLOEML7

KEY_OEM_8

KEYLOEMLAX

KEYLOEM_102

KEY_ICO_HELP

KEY_ICO_00

KEYLPROCESSKEY

KEY_ICO_CLEAR

KEY_PACKET

KEY_OEM_RESET

KEY_OEM_JUMP

KEY_OEM_PA1

KEY_OEM_PA2

KEY_OEM_PA3

KEYLOEMLWSCTRL

KEY_OEM_CUSEL

KEY_OEM_ATTN

KEY_OEM_FINISH

KEYLOEMLCOPY

KEY_OEM_AUTO

KEY_OEM_ENLW

KEY_OEM_BACKTAB

KEY_ATTN

KEYLCRSEL

KEY_EXSEL

KEY_EREOF

KEY_PLAY

KEY_ZOOM

KEY_NONAME

KEY_PA1

KEY_OEM_CLEAR