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LoadState()

LEGEND color: Color(n.g.b.a=255) vec: Vector3 / Vector4 mat: Matrix tex: Material / RTT / texture handle rtt: Render Target texHandle: texture handle eyelatium: Vector3 key: "a" or KEY_SPACE etc. su.tv: UV coordinates (floats) nx.ny.nz: normal 01.02.03: Ventex Sound support: WAV, OGG **EVENTS** _initO _shutdown() _update(dt) _render() _render2D() _charInput(letter) ShowMessage(caption, text) LogString(text) ExitGame() RestartGame() IsDebu9Mode() SetFPS(fps) dofile(scriptName) loadfile(fileName) 9etTime()/GetTime() SaveState(data)

AUDIO

```
SOUND
  Sound(path)
  play()
  pause()
  stop()
  setVolume(vol)
  setPan(val)
  setFrequency(val = -1)
  setCursor(val)
  getPosition()
  setPosition(val)
  getTotalSize()
  loop(state)
  isLoopin9()
  isPlayin9()
  9etVolume()
  9etPan()
  9etFrequency()
  9etCursor()
  9etData()
MUSIC
  Sound(path)
  pla90
  pause()
  stop()
  setVolume(vol)
  setPan(val)
  isPlayin9()
  9etVolume()
  getPosition()
  setPosition(val)
  getTotalSize()
  9etPan()
```

MATH Color(r.9.b.a=255) ColorLinear(r.9.b.a=1.0) WorldToScreen(pos.view.proj) ScreenToWorld(pos.view.proj) str2vec(text) vec2str(vec) MATRIX MatrixO translate(x.y.z) rotate(x,y,z) scale(x,9,z) inverse() shadow(planeVec.li9htVec) reflect(planeVec) lookAt(eye.at.up) m(row.col) row(index) col(index) bind(kind) persp(eye,atpos,up) ortho(w.h.near.far.flipLH) orthoEx(l,r,t,b,near,far,flipLH) VECTOR Vector3(x,9,z) Vector4(x,9,z,w) cross(vec) get() colorO OPen. ma9590 lerp(b,t) ne90 normalize() m(index.val) x0,90,z0,w0

RENDERER

ClearScene(color)

CameraPerspective(fov.near.far.flipLH)

CameraOrtho9raphic(w.h.near.far.flipLH)

CameraOrtho9raphicEx(l.r.t.p.near.far.flipLH)

BindTexture(tex)

GetResolution()

GetMatrix(kind)

IsFocused()

RenderState(kind.state)

ToggleWireframe(state)

SetFog(color.kind.start.end)

SetFog(color.kind.density)

ClearFo9()

SamplerState(stage.kind.state)

EnableLighting(state)

ToggleDepthTest(state)

AmbientColor(color)

ClearTar9et()

DrawBox(mat.dims.color)

DrawQuad(x1,x2,91,92,color,flipY)

DrawQuad3D(x1,x2,91,92,z1,z2,color)

DrawQuadEx(vec3.color.usesDepth.flipY)

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()	setName(name)	
9etTar9ets()	9etName()	
findMesh(name)	setMaterial(tex)	
findLi9ht(name)	9etMaterial(matId)	
findTar9et(name)	PART / FACEGROUP	
9etRootNode()	FaceGroup()	
IODE	cloneO	
NodeO	addVertex(vert)	
cloneO	addIndex(index)	
9etName()	addTrian9le(a.b.c)	
setName(name)	setMaterial(mat)	
9etTransform()	9etMaterial()	
setTransform(mat)	draw(mat)	
9etFinalTransform()	buildO	
addNode(node)	calcNormals()	
addMesh(mesh)	clearO	
draw(mat)	9etVertices()	
drawSubset(index. mat)	9etIndices()	
9etMeshes()	MATERIAL	
9etMeshParts()	Material()	
9etLi9hts()	Material(textureName)	
9etTar9ets()	Material(w₊h)	
9etNodes()	setSamplerState(sampler.state)	
findMesh(name)	9etSamplerState(sampler)	
findLi9ht(name)	loadFile(textureName)	
findTar9et(name)	resO	
findNode(name)	dataO	
9etMeta(name)	9etHandle(slot)	
IESH	setHandle(slot,texHandle)	
MeshO	setDiffuse(color)	
addFGroup(part)	setAmbient(color)	
addPart(part)	setSpecular(color)	
draw(mat)	setEmission(color)	
cloneO	setPower(val)	
9etFGroups()	setOpacity(val)	
getParts()	alphaIsTransparency(state)	
clearO	alphaTest(state)	

setAlphaRef(val)		
setShaded(state)		
VERTEX		
Vertex(x.y.z.su.tv.color.nx.ny.nz)		
9et()		
FONT		
Font(fontFamily,size,boldness,italic)		
drawText(color.text.x.y.w=0.h=0.fla9s)		
measureText(text.fla9s.width)		
RENDER TARGET		
RenderTar9et()		
RenderTar9et(w.h)		
RenderTar9et(w.h.hasDepth=false)		
9etHandle()		
bindO		
EFFECT		
Effect(effectPath)		
be9in(technique)		
endO.flushO		
be9inPass(pass)		
endPass()		
commit()		
setBool(name,val)		
setFloat(name.val)		
setMatrix(name.mat)		
setVector3(name.vec)		
setVector4(name.vec)		
setInte9er(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)
setOuterAn9le(val)
setType(kind)
setSlot(slot)
getType()
getSlot()

INPUT

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

GLOBALS

RENDERER

PRIMITIVEKIND_POINTLIST
PRIMITIVEKIND_LINELIST
PRIMITIVEKIND_LINESTRIP
PRIMITIVEKIND_TRIANGLELIST
PRIMITIVEKIND_TRIANGLESTRIP
PRIMITIVEKIND_TRIANGLEFAN



MATRIXKIND_VIEW
MATRIXKIND_PROJECTION
MATRIXKIND_TEXTUREØ
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

CULLKINDLCCW

LIGHTKIND_DIRECTIONAL LIGHTKIND_POINT LIGHTKIND_SPOT

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

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RENDERSTATE_WRAP0

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_CCWLSTENCILPASS 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

TEXALWRAP
TEXALMIRROR
TEXALCLAMP
TEXALBORDER
TEXALMIRRORONCE

FONTFLAG_TOP
FONTFLAG_LEFT
FONTFLAG_CENTER
FONTFLAG_RIGHT
FONTFLAG_VCENTER
FONTFLAG_BOTTOM
FONTFLAG_WORDBREAK
FONTFLAG_SINGLELINE
FONTFLAG_EXPANDTABS
FONTFLAG_NOCLIP

FF_LEFT
FF_CENTER
FF_RIGHT
FF_VCENTER
FF_BOTTOM
FF_WORDBREAK
FF_SINGLELINE
FF_EXPANDTABS
FF_NOCLIP

RTKIND_COLOR RTKIND_DEPTH RTKIND_COLOR16 RTKIND_COLOR32

INPUT

MOUSE_LEFT_BUTTON
MOUSE_MIDDLE_BUTTON
MOUSE_RIGHT_BUTTON
MOUSE_WHEEL_UP
MOUSE_WHEEL_DOWN

CURSORMODE_DEFAULT
CURSORMODE_CENTERED
CURSORMODE_WRAPPED

KEY_LBUTTON
KEY_RBUTTON
KEY_CANCEL
KEY_MBUTTON
KEY_XBUTTON1
KEY_XBUTTON2
KEY_BACK
KEY_TAB
KEY_CLEAR
KEY_RETURN
KEY_SHIFT
KEY_CONTROL

FF_TOP

KEY_PAUSE KEY_CAPITAL KEY_KANA KEY_HANGEUL KEY_HANGUL KEY_JUNJA KEY_FINAL KEY_HANJA KEY_KANJI KEY_ESCAPE KEY_CONVERT	KEY_NUMPAD2 KEY_NUMPAD3 KEY_NUMPAD4 KEY_NUMPAD5 KEY_NUMPAD6 KEY_NUMPAD7 KEY_NUMPAD8 KEY_NUMPAD9 KEY_MULTIPLY KEY_ADD KEY_SEPARATOR KEY_SUBTRACT
KEY_NONCONVERT	KEYLDECIMAL
KEY_ACCEPT	KEY_DIVIDE
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
KEYLINSERT	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	KEY_F23

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KEY_F24

KEY_NAVIGATION_VIEW

KEY_NAVIGATION_MENU

KEY_NAVIGATION_UP

KEY_NAVIGATION_DOWN

KEY_NAVIGATION_LEFT

KEY_NAVIGATION_RIGHT

KEY_NAVIGATION_ACCEPT

KEY_NAVIGATION_CANCEL

KEY_NUMLOCK

KEY_SCROLL

KEYLOEM_NECLEQUAL

KEYLOEM_FJ_JISHO

KEY_OEM_FJ_MASSHOU

KEYLOEMLFJLTOUROKU

KEY_OEM_FJ_LOYA

KEYLOEM_FJ_ROYA

KEYLLSHIFT

KEY_RSHIFT

KEY_LCONTROL

KEY_RCONTROL

KEY_LMENU

KEY_RMENU

KEY_BROWSER_BACK

KEY_BROWSER_FORWARD

KEY_BROWSER_REFRESH

KEY_BROWSER_STOP

KEY_BROWSER_SEARCH

KEY_BROWSER_FAVORITES

KEY_BROWSER_HOME

KEY_VOLUME_MUTE

KEY_VOLUME_DOWN

KEY_VOLUME_UP

KEY_MEDIA_NEXT_TRACK

KEY_MEDIA_PREV_TRACK

KEY_MEDIA_STOP

KEY_MEDIA_PLAY_PAUSE

KEY_LAUNCH_MAIL

KEY_LAUNCH_MEDIA_SELECT

KEY_LAUNCH_APP1

KEY_LAUNCH_APP2

KEYLOEM_1

KEY_OEM_PLUS

KEY_OEM_COMMA

KEY_OEM_MINUS

KEY_OEM_PERIOD

KEYLOEML2

KEYLOEML3

KEY_GAMEPAD_A

KEY_GAMEPAD_B

KEY_GAMEPAD_X

KEY_GAMEPAD_Y

KEY_GAMEPAD_RIGHT_SHOULDER

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

KEYLOEML4

KEYLOEML5



KEYLOEML6

KEYLOEML7

KEY_OEM_8

KEYLOEMLAX

KEYLOEM_102

KEY_ICO_HELP

KEY_ICO_00

KEY_PROCESSKEY

KEY_ICO_CLEAR

KEY_PACKET

KEY_OEM_RESET

KEY_OEM_JUMP

KEY_OEM_PA1

KEY_OEM_PA2

KEY_OEM_PA3

KEYLOEMLWSCTRL

KEYLOEMLCUSEL

KEYLOEMLATTN

KEY_OEM_FINISH

KEY_OEM_COPY

KEY_OEM_AUTO

KEYLOEMLENLW

KEY_OEM_BACKTAB

KEY_ATTN

KEY_CRSEL

KEY_EXSEL

KEY_EREOF

KEY_PLAY

KEY_ZOOM

KEY_NONAME

KEY_PA1

KEY_OEM_CLEAR