Subject: Lua V5 (0.5.0) Released

Posted by jnz on Sun, 16 Aug 2009 22:25:24 GMT

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At long last, after countless hours. It is finally here.

First of all, for anyone who have not followed the LuaPlugin. This is a plugin for SSGM, built on scripts 3.4.4 to integrate a Lua interpreter. There are over 300 of the API functions bound to Lua and many many hooks.

If you are interested in learning Lua, I can provde some very good links. http://www.lua.org/pil/ - a good tutorial detailing almost everything you need to know http://lua-users.org/wiki/TutorialDirectory - a good reference

Now, on to what's new.

I have upgraded the functions calls. The LuaPlugin will no longer ignore function calls with incorrect parameters. It instead throws an error.

I have upgraded the code that handles sockets.

I have also changed the way Vector3 works. It is now a table instead. The details are in the changelog.

Full changelog: (Please read this for vital changes which will affect your old Lua code.)

11 July 2009 Started changes log

Added support for new hooks function Serial Hook(PlayerId, Serial)

Called when the player's client sends his serial hash (must be requested)

function Loading_Hook(PlayerId, Loading)

Called when a player is loading a map, and then when the player is ready.

Not called whent the player first joins the game

function Damage_Hook(PlayerId, Damager, Target, Damage, Warhead) Called when a player does damage, works on everything except buildings

function Ping Hook(PlayerId, Ping)

This is called whenever the client sends a "ping" to the server

Ping is the unique number they have sent.

function Suicide_Hook(PlayerId)

This is called when a player pressed the "suicide" button.

function Radio Hook(Team, PlayerId, a, RadioId, b)

This is called for radio commands players can send to their team.

The OnChat function has been changed function OnChat(int Playerld, int Type, Message, Target) The new parameter target is for private messaging.

Some new hooks can also be blocked You simply add "return 0" to stop execution and block For example function OnChat(PlayerId, Type, Message, Target) if Muted[PlayerId] == 1 then --this player is not permitted to use chat return 0 end end The full list of function avaliable to block are: Damage Hook

Added a new function RequestSerial(PlayerId) This requests the player's client to send his serial When the serial is sent the Serial Hook is called

Updated ExamplePlugin.Lua to reflect changes to Hooks

12 July 2009

OnChat

Suicide Hook Radio Hook

Fixed small bug where the blockable hooks would always block.

Added support for sqlite3 Using it couldn't be any more simple Define a callback function: function sqlite_cb(userdata, argc, data, name) argc is the total amount of columns data contains the cell data for each column name contains the call name for each column data and name are both arrays so you can iterate through them with for k,v in pairs(data) do io.write(v .. " - " .. name[k]) end

The callback function is called for each row of the result

To open a database file, just load the class 'sqlite' local db = sqlite("mydb.db")

To query the database, use db:Query("data", "callback", query) db:Query("userdata", "sqlite_cb", "SELECT * FROM mytable;")

Fixed bug preventing OnCharacterPurchase, OnVehiclePurchase and OnPowerupPurchase being called

Fixed a crash bug when Get_Translated_String was called with a valid preset.

Changed Get_Translated_String, it now needs 2 arguments.

Get_Translated_String(Team, PresetId)

Added Get_Health
Added Get_Max_Health
Added Get_Shield_Strength
Added Get_Max_Shield_Strength

25 July 2009

Fixed a bug where the server would crash when something other than a string was passed to a function expecting a string.

Added LongToIP, this function takes a number and returns an IP address. For example: a1,a2,a3,a4 = LongToIP(1234567)

Added IPToLong, this function takes 4 parameters and retrurns a string.

Added Is_A_Star, this takes a gameobject and returns true or false.

27 July 2009

Made a slight change to all the Lua function bindings, they no now longer ignore calls that are not made with the correct amount of arguments.

Instead, they now throw an error.

29 July 2009

Added Enable_Stealth(Object, Stealth)
Object is the object to effect
Stealth is either 1 or 0, 1 enables and 0 disables.

05 August 2009

Added new hook OnError(Error)

This hook is called whenever there is an unhandled error in Lua

It is not called across all LuaPlugins loaded, only for the LuaPlugin with the error.

This hook is also avaliable in LuaScripts.

Updated example script and plugins with the new OnError call.

07 August 2009

Added Get Rotation()

This gets all the maps in rotation Returns a table

Removed SLNode and all associated classes.

Added Get_All_Objects
Returns a table with all objects in-game.

Added Get_All_Players
Returns a table with all players in-game.

Added Get_All_Vehicles
Returns a table with all vehicles in-game.

Added Get_Buildings
Returns a table with all buildings in-game.

08 August 2009

Display_Nod_Player_Terminal_Player(GameObject)
Displays a Nod purchase terminal for GameObject, must be a player

Display_GDI_Player_Terminal_Player(GameObject)
Displays a GDI purchase terminal for GameObject, must be a player

Added Reload_All_Plugins() Reloads all plugins.

09 August 2009

Added Set_Health(GameObject, Amount) Sets the object's health

Added Set_Shield_Strength(GameObject, Amount)
Sets the object's shield strength

Changed the way a Vector3 works. It is now a simple Lua table. local pos = $\{X = 10, Y = 40, Z = 20\}$

--OR

local pos = $\{\}$ pos.X = 10 pos.Y = 40 pos.Z = 20

Added events Load and Unload Updated example plugin to reflect this.

```
Major change to LuaScripts.
 I have now completely dropped the folder "LuaScripts".
 To create a lua script you now first create a table like so:
 myscript = {}
 Then add your callbacks like so:
 function myscript:Created(ID, o)
  print("CREATED")
  Start Timer(ID, o, 10, 0)
 end
 function myscript:Timer_Expired(ID, o, num)
  print("TIMER_EXPIRED")
 end
 Simply register by using Register Script
 Register_Script("myscript", "", myscript)
 Now you're ok to attach it:
 local o = Create_Object("Invisible_Object", \{X = 0, Y = 0, Z = 0\})
 Attach Script Once(o, "myscript", "")
Updated Example plugin to reflect new changes.
13 August 2009
Added basic remote server uploading capabilities.
 With 3 functions:
 Upload
  Starts an upload
  Consult the example code to see what parameters it needs.
 Check_Upload
  Returns 0 - 5
  Consult the example code to see what the numbers mean.
 Check Upload Error
  Gets the system error (if any) from the last upload attempt.
 Sample code:
 local t = \{\}
 t.Host = "ftp.myhost.co.uk"
 t.Port = 21
 t.Username = "joebloggs"
 t.Password = "amazingpassword"
 t.RemoteFile = "/foo/bar/test.txt"
 t.LocalFile = "C:\\test.txt"
```

Upload(t) local check = Check_Upload() if check == 1 then --upload still in progress elseif check == 2 then --Failed, most likly the computer doesn't support uploading local error = Check_Upload_Error() -- for the system error code elseif check == 3 then --Failed, most likely unable to connect local error = Check_Upload_Error() --for the system error code elseif check == 4 then --Failed, most likely the local file was not found, or the remote file could not be accessed local error = Check_Upload_Error() --for the system error code elseif check == 5 then --Upload complete end 14 August 2009 Fixed Create_Script_Zone It now needs 3 arguments It no longer uses the BoxClass

--This creates a script zone with preset "Script_Zone_All"

--At (1, 2, 5)

--It is a 5x5x5 box

local Center = $\{X = 1, Y = 2, Z = 5\}$

local Extent = $\{X = 5, Y = 5, Z = 5\}$

Zone = Create_Script_Zone("Script_Zone_All", Center, Extent)

15 August 2009

Added cPlayer(PlayerID)

This builds a new table and returns it.

The table holds:

AlliesKilled

ArmHit

ArmShots

BuildingDestroyed

ClientUpdateFrequency

CreationTime

CreditGrant

CrotchHit

CrotchShots

DamageScaleFactor

Deaths

EnemiesKilled

FinalHealth

Fps

GameTime

HeadHit

HeadShots

IpAddress

IsActive

IsHuman

IsInGame

IsWaitingForIntermission

JoinTime

Kills

KillsFromVehicle

LastDamaged

LastDamager

LegHit

LegShots

Money

Ping

PlayerId

PlayerName

PlayerType

PowerupsCollected

Rung

Score

SessionTime

ShotsFired

Squishes

TorsoHit

TorsoShots

TotalTime

VehiclesDestroyed

VehicleTime

Added The_Game

This builds a new table and returns it.

The table holds:

IntermissionTimeLeft

IsAutoRestart

Port

IsPassworded

MapNumber

TimeLimit_Minutes

MinQualifyingTime_Minutes

IsTeamChangingAllowed:

Owner

FrameCount

Password

TimeRemaining_Seconds

WinnerID

GameStartTime

GameDuration Seconds

WinType

UseLagReduction

StringVersionsMatch

SpawnWeapons

INI

IsQuickMatch

RemixTeams

RadarMode

MVPName

MaxWorldDistance

MVPCount

IsLaddered

IntermissionTime Seconds

IsFriendlyFirePermitted

IsDedicated

GameplayPermitted

DoMapsLoop

MapCycleOver

Motd

ModName

GameTitle

CFGModTime

DriverIsAlwaysGunner

MaxPlayers

CanRepairBuildings

MapName

CurrentPlavers

IsClanGame

GrantWeapons

SettingsDescription

IΡ

Added Set_cPlayer(PlayerId, table)

Using any combination of the returned keys from cPlayer,

You can set a player's cPlayer infomation.

Added Set The Game(table)

Using any combination of the returned keys from The_Game,

You can set the game infomation.

16 August 2009

Added MemoryWrite(Address, Table)

Do not using this function unless you know exactly what you are doing.

This function writes code directly into Renegade's memory space The table is the op-codes to be written at Address Warning: This function can cause the server to crash

Added MemoryRead(Address, Amount) Do not using this function unless you know exactly what you are doing. This function reads code directly from Renegade's memory space It returns a table with the op-codes read from Address Warning: This function can cause the server to crash

Added Set_Shield_Type(Object, Type) Sets the shield type of Object.

EDIT: Please see the official release topic for any critical updates. http://www.dcomproductions.com/forums/viewtopic.php?f=14&t=1594&p=12635

Subject: Re: Lua V5 (0.5.0) Released

Posted by reborn on Mon, 17 Aug 2009 07:12:03 GMT

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Such a great release. This really does provide a brilliant platform for people to go and create there own mods. By far one of the best plug-in's released. Nice one!