Subject: Details of some of the features in 4.0

Posted by jonwil on Wed, 30 Sep 2009 13:43:58 GMT

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Now using windows minidump crashdumps for debug information

Fixed many bugs

Complete overhaul of shader system

Rewrite of many parts of the graphics system to remove all vestiges of the old DX8 bits.

4.0 doesn't have any of the bugs and slowdowns and problems that plagued 3.4.4

Fixed a number of bugs in various scripts

Changed JFW\_Jetpack and JFW\_Jetpack\_Model to play an animation on the object as well as changing the model

Corrected many issues in the HUD and custom HUD code

Renamed bhs.dll to tt.dll

Changed all names mentioning bhs (readmes, logs etc) to mention TT instead

Rewrote many hacks and crappy pieces of code

Make the custom sniper scope work more like the stock renegade sniper scope

Started using the latest version of visual C++ (2008 currently)

Rewrote the memory manager to be faster and cleaner (and to produce more debugging info on debug builds)

Changed the way we hook into renegade (and call renegade functions and access renegade variables) to be faster and cleaner.

New scripts JFW\_Set\_Info\_Texture and JFW\_Clear\_Info\_Texture to use the "info texture" feature of tt.dll

New script JFW\_Set\_Time\_Custom and JFW\_Set\_Time\_Limit\_Custom to change the time and time limit

New script JFW\_C4\_Sound\_2 which is the same as JFW\_C4\_Sound except it wont play if the C4 does no damage.

New script JFW\_C4\_Explode which triggers an explosion when a C4 is planted by a certain object New script JFW\_3D\_Sound\_Custom\_2 which plays a 3d sound on custom

New script JFW\_Send\_Self\_Custom\_On\_Key which sends a custom to the object its attached to when a key is pressed

New script JFW\_Empty\_Vehicle\_Timer which will destroy an empty vehicle if it remains empty for a certain period of time

Fixed bug where weapons with infinate ammo (such as the pistol) dont start loaded

Fix bug where damage code miscalculates points in some cases

Fixed the invisible C4 problem on maps like Glacier Flying

Changed all projects to use precompiled headers for system includes and global definitions

Fixed repair bay on Glacier Flying and other such maps to work correctly

Fixed bug where if the nod power plant is down and the harvester is destroyed, the new harvester is spawned invisible

Changed weapon selection so that weapon cycle skips empty weapons

Lots of ladder fixes (as far as I am aware ladders work fine 100% now)

Stealth improvements (so it doesnt glitch up when you are stealthed and then unstealth for example)

Netcode improvements

Support for using the 2 side buttons (i.e. buttons 4 and 5) on mice with 5 buttons. You can use them in any place you can use the normal mouse buttons

Removed linux FDS support (makes developing 4.0 much easier and cleaner)

Cleaned up screenshot code to eliminate screenshot lag and to work better in windowed mode New script Reborn\_IsDeployableTank\_2 which is a clone of Reborn\_IsDeployableTank but doesnt change the weapons at all

Various optimizations to make 4.0 faster

Remove support for shader plugins

Make screenshots output to a more sane location and with a more sane filename convention Eliminate all support for tga screenshots

New script JFW Custom Send Random Custom which, on receipt of a custom, sends a custom to another object if a random percentage is less than a certain percentage

Fix some bugs in JFW\_Message\_Send\_xxx scripts

Add a new feature to display the contents of a text file for a player (intended for e.g. objectives display).

Add new script JFW\_Custom\_Objectives\_Dlg for the above feature.

Make spawn locations (including powerups and players) more random

Fix for bluehell

Method to change the player limit at runtime

Add feature so that the team, battlefield and server information dialogs have working scrollbars Fixes to the PT dialogs

Improvements to the ExpVehFac scripts

fix so that standing right next to the WF wont cause your vehicle to get destroyed by mistake

Fix for joining the server after game over

Starting credits fix

Fix for PT not working on rejoin

Fix for C4 disappearing when stuck to a vehicle

Move various hud.ini keywords into tt.ini so that we can cheat check tt.ini.

hud.ini contains the custom HUD stuff and the dialog box stuff.

Improved anti-cheat that checks sensitive files and does other good stuff.

Will not have any of the problems of RenGuard but WILL check all 3d models, among other thinas.

Moved damage calculation to the server for anti-cheat purposes.

change Chat Hook and Host Hook so that they can veto sending of the message to the client(s)

Fixes for RA\_Helipad\_Zone to make it harder to exploit by bobbing up and down in it

Fix JFW\_Health\_Regen and JFW\_Armour\_Regen to not repair dead objects

Fix definition of JFW\_PT\_Disable and JFW\_PT\_Disable\_Death

Add some scripts by campa

Improve particle rendering (we have plans for a shader/GPU based particle renderer in the future)

Added more debug code in netcode, graphics and elsewhere

New console commands for shader debugging

Renamed "BHS.dll options" to "Extended Options"

Shader detail sliders on "Extended Options" dialog

New script JFW\_Heal\_Zone\_2 which is like JFW\_Heal\_Zone but which only heals for a specific preset

Disable Toggle\_Sorting console command

Fix so you cant use a PT from inside a vehicle

Fix so that proximity C4 wont detonate if placed next to dead enemy soldiers

Fixes to AGT and obelisk scripts to fix obelisk walk and other bugs

Fix client showing/switching to weapons they dont own

Fix various memory leaks

add tt.ini keyword DisableVehicleFlipKill, set this to true to disable vehicles from being blown up when flipped over

HUD console command now hides all hud elements

Replace bandtest.dll with a new dll from us that contains what used to be in d3d8.dll (those bits we didnt replace) and other code we need to load early.

Load shaders.dll from bandtest.dll

Make sure sniper scope is only turned on for the weapons it should be

Fixes to make renegade run better on windows Vista/server 2008/Windows 7 including working correctly in limited user mode

Removed SH\_FileVerificationControllerScript script

Do not load mix files for maps other than stock maps unless the map is loaded (faster loading for people with lots of maps)

New tt.ini keyword MapPrefix to set the map prefix (for mods)

Fix JFW\_Vehicle\_Lock to not lock the vehicle if there is someone in it

Fix JFW\_Escort\_Poke script

Fog related changes and improvements

Fix parameters for JFW\_Custom\_Send\_Custom and JFW\_Custom\_Send\_Random\_Custom

Disabled WOL guick match (as its been broken since forever)

add hud.ini keywords to change the weapon chart image colors

Change the way the advanced game listing is sorted to properly support favorites and stuff

Force shadow size to be power of 2

New script JFW\_Custom\_Multiple\_Send\_Custom\_2

Fix up turret lag fix code

Fix sniper lag

Changed 4.0 to not use std:: classes and headers anywhere

Updated to use a newer d3dx dll

Code to give players custom tags with a server console command to set the tag

A bunch of fixes for widescreen resolutions

Add some scripts by Danpaul88 including scripts for AR

Fix to send max health/shield over the network

Fix bug with secondary fire using wrong muzzle

Fixed Test Cinematic

Changed some dialogs to not hardcoded the team names anymore (team select dialog e.g.)

Support mouse wheel in the sidebar

Added some scripts from Zunnie

Added some scripts used by RolePlay2

hud.ini keywords to set various dialog colors not previously settable

More netcode crash/exploit fixes (i.e. places where bad packets could crash the code)

added anti-stealth-hack code

New script JFW Custom Spawn Zone to spawn a zone on custom

Change RA\_Credit\_Theft\_Zone to not trigger if the thief is in a vehicle

Add engine call to change default presets for GDI/nod

New script JFW\_Spawn\_Zone\_Created to spawn a zone on create

Made APB Mad tank script ignore friendly base defenses

Made APB nuke silo terminal script trigger the "you dont have the required security to access this terminal" dialog if the enemy accesses it

New script RA\_Base\_Defense\_Chargeup which is for weapons that charge up (Telsa coil)

Make RA Base Defence Powered properly check that the power is enabled

Make gap generator script check power before working

New script JFW\_Submarine for subs in APB

New script JFW Water Level for water level for JFW Submarine

Make APB AA base defence scripts not target subs

New scripts JFW\_Repair\_Zone\_Boats, JFW\_Repair\_Zone\_No\_Boats and JFW\_Boat to deal with naval units only repairing at naval yards and non naval units only repairing at repair bays

Fixes to make 4.0 work better under PIX

Make spy power plant zone bring radar down

New script JFW Radar Low Power to make radar go down when power goes down

All dlls now use the DLL version of the CRT

Upgraded to newer libong and zlib versions

New script RA\_Conyard\_Controller\_Improved\_2

hud.ini keywords to change the geometry detail limits

Add base defence scripts that ignore stealth

Make fire0anim and fire1anim fields for vehicles work

New script JFW Vehicle Visible Weapon which basically sets the animation frame for the vehicle to the number of bullets in the gun (e.g. for vehicles with rockets or missiles visible on them)

New feature where vehicles remain teamed when player leaves (intended to solve an exploit

where people get out just before the vehicle dies to deny the other side points)

Add tt.ini keyword to make the above feature optional

Add hook so that you can hook into the Think pathway (and run something every frame)

Add tt.ini keyword to change draw distance

A bunch of spy fixes (to make spies better)

Beginnings of new resource downloader, auto-map-downloader etc

Beginnings of totally new SSGM

Support more texture formats in dds files

Removed swap scores on game end if the losing team is out of players.

Fix XWIS delay on .pkg files

Added possibility for players to send messages to the host by typing "/host <message>".

New script JFW Radar Jammer\_Sound for radar jammer sound

Fix radar jammer scripts

Fix RA\_Damaged\_Credits

Make spies get the allied ore dump

Fix JFW\_Pilot\_Repair

New script JFW Model Animation

C4 no longer gets defused when the owner leaves the game

Added KICK2 console command to force-kick a player

New script JFW Startup Custom Self

Add tt.ini keywords to disable nuke and ion beacon weather effects

Add tt.ini keyword to disable reload when weapon is empty

New script JFW\_Moon\_Is\_Earth and functionality. This will cause the moon code to read texture named fullearth and partearth instead of fullmoon and partmoon.

For maps that are set on the moon

Fix JFW 2D Sound Damage

Change to not reload a weapon when the weapon is full already

New scripts JFW Set Skin Custom, JFW Set Armor Custom, JFW Message Send Powerup, JFW Soldier Powerup, JFW Vehicle Regen 3

New script JFW\_Points\_Custom

New hud.ini keyword to change the decal limit

hud functionality to display the center bullet and health counts seperate from the rest of the HUD.

hud.ini keyword to disable this new object

Feature to store registry keys and data files (logs, thu files, screenshots, crashdumps etc etc) in locations that non-admin users can write to.

Hack wolapi.dll to read and write from above locations

Hack game to load wolapi.dll from local ren folder

Hack LE to load new ttle.dll file

Added "worst FPS" diagnostic

Send serial hash over the network for possible ban use

Various fixes connected to vehicles with damage meshes and damage caused on the FDS

Change RA conyard script to repair less if power is low

new tt.ini keyword that will allow PTs marked with the regular "I am a PT object" flag to load the sidebar instead of the PT

Add build date for scripts to the crashdumps

Make QUIT and EXIT console commands do the same thing. On client they will do what EXIT does now, on FDS they will do what QUIT does now

Make sidebar/PT dialogs close if the soldier using them is killed

Removed BAN, KICK and ALLOW console functions, to be replaced with something better later New custom ConstructionYardGameObj object for a construction yard building controler Added new PT pages for air and naval (to be used by the new building controllers that are being done)

Change how PT data is sent over the network to make it use less bandwidth and to suck less New script RA\_Credit\_Theft\_Zone\_Timer for adding a timer before the thief can steal Added option to disable audio when renegade does not have focus Removed bandwidth-based player limits.