Project Magma

MYTH II: SOULBLIGHTER

Version 1.8.0

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1. Introduction

Myth II version 1.8 is the latest update to Myth II: Soulblighter, bringing numerous new features, bug fixes and improvements to the timeless real time tactical medieval war game.

Myth II 1.8 is network compatible with Myth II versions 1.7.x, 1.6 and 1.5.1, but it is strongly recommended that all players use the latest version, in order to benefit from the game play bug fixes that are enabled only when all players are using Myth II 1.8.

A comprehensive list of changes in version 1.8 can be found in section "5. Changes in Version 1.8".

Be sure to visit <u>http://projectmagma.net</u> for information on the game and discussion of the updates, <u>http://www.mariusnet.com</u> for online gaming and <u>http://tain.totalcodex.net</u> to download new maps and plugins.

2. Installation

You must already own a copy of Myth II: Soulblighter before using the Myth II 1.8 Update Installer. If you do not own a copy of the game, you may download the updated game demo from http://getmyth.com.

- a) Download the Myth II 1.8 update for your operating system from <u>http://projectmagma.net</u>.
- b) Run the installer program and follow the instructions that will be presented to update your copy of Myth II to version 1.8.

The Mac OS X version of the installer also has the option of installing Myth II directly from the CD.

3. About Myth II

Myth is an addictive battlefield strategy game with great depth of gameplay that never grows stale. Unlike other games, Myth wastes no time with growing crops, collecting taxes and raising armies. It cuts right to the chase and focuses on the fighting itself. Nor is Myth a game purely for those with lightning reflexes and rapid key-pressing skills, as success depends just as much on intelligent foresight, planning and use of formations and terrain. Add to this an immersive solo campaign, the ability to play over the internet (even on a slow connection), plus a plethora of high quality 3rd-party plugins (along with tools to make your own) and you have a game that will keep you entertained for years to come.

4. Playing Online

Free online play is available through the MariusNet game server, where you can enjoy multiplayer Myth II action with players from around the world.

MariusNet supports guest accounts, but players are encouraged to register online at

http://www.mariusnet.com

To log on to MariusNet, simply go to the Multiplayer dialog in Myth II and select the MariusNet server before connecting to it. You may need to click the "Servers" button if you do not have MariusNet selected already.

5. Changes in Version 1.8

5.1 Major Improvements

- a) New game type: "King of the Map". This mode uses territories flags and weighted king of the hill scoring based on number of flags held.
- b) New "Rehost" and "Restart" buttons in the quit/pause dialog, so that it's no longer necessary to drop or suicide to restart the game.
- c) New hosting option to display narrations and cutscenes during cooperative multiplayer.
- d) Extended zoom: up to 5x in replays and when observing (requires DX11/OpenGL).
- e) New "Motion Interpolation" option to make the game even smoother.
- f) Improved New Game and Multiplayer New Game dialogs, with enhanced and streamlined plugin management.
- g) Numerous performance optimizations to improve game launch speed, save game load time, and CPU use while playing.





5.2 Game-play Bug Fixes

- a) Fixed the vanguard formation so that the tip is right where you clicked, instead of a little bit in front.
- b) Flag possession time is no longer accumulated in planning time (a bug exposed by KOTM on meshes where teams start already owning a flag).
- c) Removed attack ground "stickiness"; a second normal click won't cause another ground attack.
- d) The "guard" command now also works with non-melee units.
- e) Fixed a bug which could cause random objects to detonate unexpectedly, potentially breaking the game if it the object was important (e.g. a netgame ball).
- f) Fixed some cases where an object could pass through a model (e.g. the ball on Venice).
- g) Fixed a bug where too much negative (healing) damage could kill a unit.
- h) Units respawned via script will now preserve their controlling player, rather than returning to the team captain.
- i) Don't show the "walk" sequence while a unit is aiming its attack. (aiming occurs for one tick between being ordered to attack and [holding for attack/turning/attacking]).
- j) Fixed a 1.7.1 bug that could cause teams to be eliminated on scripted multi maps where script would temporarily make the units uncontrollable. This bug was seen on maps such as Clue, MythChess and MythRACER.
- k) Fixed the survivor count in end game reports on maps where units are made uncontrollable before the game ends, such as Salvation and A Murder of Crows.
- I) Fixed the issue where units that do not exist on lower difficulty levels could use up vets that were carried over.
- m) Fixed a bug where projectiles set to remain after detonation would keep their original monster target and detonating again would hurt that target.
- n) Fixed a bug with monster tag based map actions not working for monster index 0.
- Fixed a bug where some projectiles would be duplicated when hitting monsters flagged as "Allows Projectiles to Pass Through". In particular, projectiles that are guided and those that center on target will no longer do this.
- p) Improved precision of damage tracking against high-value units and use fractional damage values when computing score and rankings in body count.

5.3 Graphics/Rendering Improvements (OpenGL and DX11)

- a) All new texture decompression code loads new sprite frames more than 2x as fast.
- b) Greatly reduced texture memory use by applying tints and hue changes in the pixel shader, instead of generating a unique texture for each tint/hue change combination.
- c) Numerous miscellaneous performance optimizations, better fps scaling on more complex scenes.
- d) Fixed the issue of units' heads being "cut off" when next to models by rendering sprite depth coordinates as if they were vertical in world space (rather than camera-aligned).
- e) Eliminated the sharp edges on sprites by adding a transparent border.
- f) New terrain texture tile system means FPS no longer drops while moving the camera.
- g) Made the view distance effectively unlimited, eliminating the "hall of mirrors" effect previously seen when viewing areas beyond the maximum view distance.
- h) Added mipmaps to all textures, which eliminates aliasing issues (flickering and shimmering with high resolution sprites viewed from a distance), and can also improve performance.
- i) Anisotropic filtering now also applies to models and can be enabled without detail textures.

5.4 Graphics/Rendering Improvements (Other)

- a) Reduced sprite z-fighting/flickering issues by using enhanced z precision and whole scene sorting.
- b) Made the overhead map "visible region polygon" (the yellow box) more accurately reflect what is really on screen.
- c) Built-in screenshot support: activated by printscreen or option+f12 (saved to "screenshots" folder). Under OpenGL or DX11, hold shift to capture a "mega" screenshot 8000 pixels wide.
- d) In software rendering mode, landscape filtering will now be applied even if the camera is moving.
- e) Fixed overlay transparency under the software renderer. (used for interface stuff like the move circle and attack ground icon).
- f) Fixed drawing of overhead map blips, so they can't go past the edges on scrolling/highres overheads.
- g) Mark modern renderers as "Recommended" in preferences list and sort them to the top.
- h) Minimum OpenGL version needed for basic rendering is now OpenGL 1.1 + EXT_bgra.
- i) Users can now choose texture cache size on DirectX 10/11, like in OpenGL.
- A number of small changes to the legacy Direct3D renderer, including making fonts not blurry, making interface transparency consistent with other renderers and support for resolutions not divisible by 32.
- k) Fixed a regression in 1.7.2 that caused the mouse cursor to be invisible under 3dfx Glide on some video cards.
- I) Fixed some cases of alt tab causing disappearing textures on 3dfx.
- m) Fixed "alliance star icon" drawing under hardware rasterizers.

5.5 In-Game User Interface Changes

- a) Switching formations in place: simply double-tap the formation # key or shift-click on a formation button in the control bar.
- b) In-game ping display (shown below FPS in netgames).
- c) A selected unit becoming controllable no longer needs to be re-selected to receive orders.
- d) Fixed logic for de-selecting invisible units, so that it uses the same definition of invisible as the rendering code. Thus no more deselecting things which the player can see.
- e) Allow selecting hostile ambient life and hunting targets.
- f) Fixed some bugs in the "look at location" code that caused it to change the camera angle in cases where it shouldn't. This makes the "center selection" command more usable.
- g) Unlatched the "center selection" command so that it functions as long as you hold the key down.
- h) Inventory control bar and menu can now be used by the team captain on their team mates units, consistent with other unit orders.
- i) Fixed control bar buttons disappearing after switching back from control bar inventory mode at 640x480 resolution.
- j) Fixed control bar inventory 'none' string override and control bar inventory handling of duplicate items; tweaked control bar inventory button size.
- k) While in inventory menu mode, allow selecting the "0. None" inventory item with the tilde/backquote key and the configurable deselect units control, in addition to the zero key.
- I) Preserve the camera zoom level when moving the camera by clicking on the overhead map.
- m) Fixed multiple selection inventory in the presence of duplicates -- only show the minimum number of dups for all selected units.
- n) Allow selecting underwater units in replays.
- o) Right-clicking on the control bar or status bar will no longer issue a click in the game area.
- p) Fixed automatic camera movement speed (broken in 1.7 when the camera was allowed to move faster than 30fps).
- q) Shift+zoom now cycles through a few preset zoom levels. Note that most of these zoom levels are only available in replays and when observing.

- r) The console popup message (such as F1/F2 speed increase) will no longer appear beneath the game hints / quit dialogs.
- s) Fixed mouse wheel cycling (both preset and inventory) sometimes jumping too far.
- t) Fixed preset cycling bug with overlapping preset groups.
- u) Buggy F10-based troop highlighting code has been removed in favor of Caps Lock.
- v) Made the unit cost column on the unit trading dialog wide enough for three digit numbers.
- w) New "alternate preset recall" control option:
 - Recall a preset by pressing one of the # keys (no modifiers required).
 - Assigning presets is still done by Alt+# (mappable), but holding the keys down is no longer required.
 - To change formations, first hit the F (mappable), followed by the number.
 - Shift+F followed by # changes formations "in place".
 - Double-tap # selects and centers the view on the preset.
 - Shift+# will add/remove a preset from the selection.

5.6 Non-Game User Interface Changes

- a) Revamped new game and netgame options dialogs with new separated tagset plugin and mapset plugin selection UI.
- b) Several improvements to UI responsiveness make the game feel a lot more speedy.
- c) The updated new game dialogs in single and multiplayer will now have their difficulty level names and descriptions (single-player) as well as game type names (multiplayer) updated based on currently selected plugins. Also applies to other players in the game seeing the game description.
- d) Allow double click to abort prologues and cutscenes. Single click will no longer abort cutscenes, which is consistent with prologues.
- e) Show the UI elements immediately after a map has loaded including during the "waiting for players" phase.
- f) Changed the status bar to not show the first map objective when a coop first loads and to show game rules when viewing a multi recording.
- g) New resizable control and status bars allow the game to support every screen resolution. (Previous versions supported only a limited set of resolutions).
- h) Status bar unit experience display will now switch to a number at 10 kills, although the old behaviour of switching to a numeric display only when full is still available by double clicking the experience indicator.
- i) Screen contents will no longer shift up and down when toggling status or control bars.
- j) The unit trading dialog is now floating and horizontally centered on screen instead of replacing the status bar. Only the 640x480 version of the tag is used.
- k) Player statistics and the overhead map are now aligned below the unit trading dialog box to prevent them from being hidden during trading at low resolutions.
- I) In the Game Hints dialog, Shift + Next Tip will now cycle backwards to the previous tip.
- m) All GUI "list" elements can now receive keyboard focus, which lets them be used with the type-toseek feature which was introduced in 1.7.2.
- n) Use number-aware string comparisons to sort UI lists, so that you get 1, 2, 3, instead of 1, 10, 11.
- o) Multiplayer checkbox "Allow Old Clients". If unchecked, players on previous versions of the game won't be able to join.
- p) Default film names now use the standard ISO date/time format so that they are sorted chronologically in the list.
- q) Dialogs for saving / renaming saved games and films will now enforce the maximum tag name length and the save game dialog now allows selecting an existing game to overwrite.
- r) Changed the maximum number of items which will show in the saved games list from 256 to 32767.
- s) Make the GUI ("out of game") resolution based on the main menu dialog tag, so custom interfaces can create resolutions other than 640x480 by modifying that dialog.

- t) Continuous updating of sliders (e.g. volume and gamma sliders in prefs).
- u) Removed "Hide Underwater Objects" checkbox which was mainly a performance hack that is no longer necessary with the current optimized rendering code.
- v) Fix damage display (in 1.8+ gameplay) to be in terms of unit trading values. In previous versions it
 was inconsistent with the metaserver scoring due to being incorrectly displayed in the post-game
 screen as 2.56 times greater than its proper value.
- w) Change "Default" To "Myth II Interface" in the interfaces list.
- x) Disabled color key and overlay transparency in (i) main menu backgrounds and (ii) bitmap controls fixes display of images from certain plugins which incorrectly used transparency.
- y) Maps without a postgame collection will now use the 'internal game epilogue' (inge) collection, instead of having their postgame skipped entirely.

5.7 Metaserver-related Changes

- a) Made metaservers work like interfaces, so they go in plugins instead of the special metaservers folder. The header bytes for metaserver plugins are 00 07 00 00.
- b) Improved tracking and display of damage and damage received. Damage values are now properly scaled (i.e. to unit trading cost) and consistent with metaserver scores.
- c) Added support for streaming recordings to the metaserver. A metaserver that supports this feature can require/provide recordings for matches on per-room basis.
- d) If the metaserver doesn't provide a room IP address, the client will now reuse the metaserver's host name for the room.
- e) Failing to join a metaserver game will no longer copy over any part of that game's settings.
- f) Metaserver login dialog no longer requires a password to be entered to click "login". Thus guest logins no longer require entering a nonsense field.
- g) The metaserver login dialog will automatically substitute "Guest" when logging in with a blank username.
- h) Doing a server switch will no longer close the multiplayer dialog.
- i) Proper game scores are now sent to the metaserver from observers. Previously observers would send bogus (zeroed) scores.
- j) Scores sent to the metaserver now include the correct team index for dropped players (i.e. which team they were originally on before dropping).
- k) Improved tracking of damaged received for metaserver stats. Partial damage is now tracked properly rather than unit deaths penalizing the last owner for the full cost of the unit.
- I) Show "Tournament" and similar room icons below player counts.

5.8 Other Changes and Fixes

- a) New plugin information cache system, which caches plugin data between runs for faster game loads. The first run will be slower while the cache is built, but subsequent runs will be faster.
- b) New Auto-Save feature for single player will create save games whenever a new level is reached.
- c) New OpenAL audio support (available in preferences). (Note: on Windows, OpenAL must be installed before this will work.)
- d) New help ("?") button in preferences in the top right corner.
- e) Fixed a serious bug where saving a game whose name consists entirely of "." characters would delete all saved games.
- f) Chronological sorting for saved games and newly-saved time-stamped films.
- g) Plugin and mesh tagset dependencies will be automatically loaded when possible.
- h) Adjusting the game volume via F3/F4 will now affect sounds that have already begun playing, including narrations, intros and cutscenes.
- i) Made volume adjustment with F3/F4 finer-grained and continuous. Also, the slider in prefs will now update properly if you use F3/F4 while in prefs.

- j) Fixed a bug where local projectiles' sounds could be prematurely silenced.
- k) Ambient monster's MA's will now be deleted when they die.
- Fixed a bug where a MOMA action would cause the new monster to receive a permanent tint from the previous monster, without actually being e.g. paralyzed or stoned. The original unit's tint is no longer carried over.
- m) When displaying a cutscene, prologue, epilogue, or replay: auto-hide the mouse cursor after two seconds of inactivity.
- n) Display sketches made by the host in replays of coop games.
- o) Fixed a game loading failure which could happen after turning off vTFL (or another tagset) and having veteran units.
- p) Myth will now always load the default interface before loading any custom interface, preventing problems where a custom interface may be missing some tags.
- q) Myth will now be able to correctly read preferences (and other files) if they are set as read-only at the file system level.
- r) When attacking a model with ctrl click, don't exit attack select mode. This is consistent with how ctrl clicking on the ground works.
- s) Fixed a player statistics % bug that would happen on Hunting that would cause hunting targets to be included in player 0's stats.
- t) Fixed a bug that could happen in coop with vets disabled that would cause vets to not be correctly reset, in some cases leading to OOS.
- u) Mouse wheel scrolling will no longer affect both the UI and the game simultaneously (e.g. postgame stats list and camera zooming).
- v) Fixed a player statistics % bug that would happen on Hunting when a unit was killed by unknown damage (e.g. satchels from the sky on dorf riot).
- w) Added "Ignored" option for right click, for users that want to map right click to some system-wide service.
- x) Films that use 1.2 gameplay are now properly tracked and reported by Myth II. (Previously, they were still correctly supported, but were reported as 1.3).
- y) Fixed vTFL/Anticlump being reset when viewing a film and save the checkbox values between restarts, similar to difficulty level.
- z) Winning a coop level will now mark the next level as visited in preferences, so that going to the game options screen will no longer deselect it.
- aa) Support loading saved games and films with filenames longer than 31 characters.
- bb) Don't do any mouseover cursor effects when the game isn't in focus, the cursor isn't over the window, or the cursor is hidden.
- cc) Allow Ctrl+(plus/minus) auto-win/loss cheat to work with the non-keypad versions of those keys too, for people on laptops or without a keypad.
- dd) Added .vets game lobby command.
- ee) Fixed multiple crash and OOS bugs.

5.9 Platform Specific Changes

Windows Specific Changes:

- a) The Myth window can now be resized or maximized normally. Alt-enter or alt-f11 toggles between windowed mode and windowed fullscreen mode on whichever monitor the window is currently on.
- b) Added basic multitouch navigation support including: 1) two-finger orbit and zoom, 2) three-finger pan and 3) press-and-tap for right click.
- c) When "Use Multicore" is enabled, the Myth window now runs in a separate thread from the game logic. This allows the window to continue to move or resize while the game is busy. This is now enabled by default on Windows Vista and higher.
- d) New function to "grab" the cursor (lock the cursor inside the window). Toggle with Ctrl+G. Mouse movement at edges of screen is disabled when grabbing is off.
- e) New "32 bit" checkbox in preferences, which applies to all graphics except detail textures. 1.7.2 and earlier have always used 16 bit on Windows.
- f) Fixed DirectSound volume ramp. Previously, all volume levels over 60% were equal to full loudness. Also, tweaked the volume ramp formula so the attenuation per gain halving interpolates smoothly from -3dB at the high end to -6dB at the low end. This gives the volume scale a larger range.
- g) Prevent redundant mode switches and gamma ramp changes.
- h) Added 'Always On Top' and 'Fullscreen' options to the window system menu.
- i) Multiple minor bug fixes, several small improvements to multi-monitor support.
- j) Improved crash stack trace recording to catch even more types of crashes.
- k) Removed dependence on D3DCOMPILER##.DLL for DirectX 11 support.
- I) Fixed window position memorization across windowed/FS toggles. (broken in 1.7.2)
- m) (Vista+ only) If myth has administrator rights, disable Win+L keycombo while Myth is in focus.
- n) Default to windowed instead of automatic when a sufficiently modern video card is detected.
- o) Attempt to recover from driver crashes which occur while querying renderer support.
- p) Allow the printscreen key screenshot function work on the controls screen instead of treating the printscreen key as a configurable key.

Mac Specific Changes:

- a) Myth's file, networking, screen and input code has been completely re-written for the Universal Binary build to use modern Mac OS X APIs.
- b) As a benefit of the new file code re-write, symbolic links can now be used for Myth subfolders.
- c) The Mac OS X Universal Binary will now work with file paths over 255 characters.
- d) The Software renderer is now available on the Mac OS X Universal Binary build.
- e) Improved scroll-wheel and trackpad support including faster scroll-zoom and support for smooth scroll-panning (depending on prefs).
- f) (Mac OS X) Window sizes are now remembered (within a session) when going from menu to game and vice versa in windowed mode.
- g) Fear and Loathing are now built as Universal Binaries.

Linux Specific Changes:

- a) Made the mouse wheel scroll speed the same as on Windows.
- b) Windowed mode at resolutions at or above the desktop resolution will now go fullscreen instead of being cut off, matching what happens on Windows.
- c) The OpenAL shared library will now be unloaded on shutdown, suppressing a console warning.



5.10 Map Making Changes

Changes to existing map making features are described here. See section **6. New Map Making Features** for new map-making features in 1.8.

- a) Monster tag based map actions will now work on units created by proj-to-unit promotion.
- b) Added some new allowed types in add-on plugins. The complete allowed set is: 'dmap','dtex','form','obpc','soun','soli','stli','temp','text'.
- c) Allow 'stli' and 'text' in interface plugins. Prevent interface related tags and observer physics constants from being loaded from regular plugins. Interface collections can still be loaded from plugins, but this is deprecated and may be disabled in future builds.
- d) Added a new, corrected implementation of the 'rand' parameter for the geom MA. (The old implementation was buggy and could generate highly non-random results.
- e) The GEOM parameters "Find all using monster owner" and "Find all using monster team" can now be combined with "find all using monster type" to get monsters that only match both, as was originally intended when they were added for 1.7.
- f) The CTRL parameter "inventory drop" ('drop'), introduced in 1.7, will now work correctly.
- g) Fixed an inconsistency in monster effect modifiers code with artifacts. Now, effects modifiers from the artifact will always be used unless the artifact is specifically flagged not to use them.
- h) Increased the ambient monster limit and made ambient monster data garbage collected so that you can have a potentially unlimited number of ambient monsters over the course of a map.
- i) The netgame MA "patch version greater than or equal to" ('patc') now returns the correct value for 1.8 (i.e. when compared with "8", returns true). Previously, it would incorrectly report patch version as "5" in 1.6 and 1.7.x (and continues to do so in those version' gameplay modes).
- j) Particle systems will now use the full sequence for rendering (animation, multiple views; each view is one animated particle type).
- k) Unified the ambient monster class (fear) and ambient monster palette marker flag (loathing) for the purposes of selection/clicking/targeting. i.e. if either is set, or both are set, the behavior is the same.
- I) The "random initial frame" animated model flag will now correctly pick a random frame. Previously, the last frame was never picked.
- m) Disallowed gameplay related tags in interfaces, disallowed interface tags in addons.
- n) Game limits display will now show texture cache memory use and game time as ticks.
- o) Added the game time index to map action debugging log messages.
- p) Increased artifact definitions limit from 128 to 256.
- q) Increased monster definitions limit from 128 to 256.
- r) Increased local projectile groups limit from 256 to 384.
- s) Increased local projectiles limit from 768 to 2048.

6. New Map Making Features

This section describes the details behind the new mapmaking features and improvements in Myth II 1.8. Some of the features described below require updated versions of the Fear and Loathing tools, which are included with the Myth II 1.8 installer.

- a) New "Query Units" map action 'quni' that can query the following info from monsters: vitality (current, max, fraction), mana (current, max, fraction), ammunition (current, max, fraction), charges (current, max, fraction), experience, battles survived, held object count, height over mesh and team player and team indexes.
- b) Added artifact flag to allow monster overrides that use a different collection. When this flag is used, the override monster tag must specify a unit tag instead of a monster tag.
- c) Added a monster flag to hide the selected unit's owner's name.
- d) New artifact flag to make artifact charges similar to ammo so that a projectile could be picked up to add more charges and a value to specify maximum charges.

- e) Added artifact flag "Charges drop as ammo on death" to be used in conjunction with the flag "pickup adds charges".
- f) New unit control (ctrl) param 'plyr' (integer) to detach units to a given player index, as returned from thew QUNI param 'plyr'.
- g) Added a new ambient sound flag, "Infinite Radius" which means that the sound will be audible over the entire map. The flag is the first bit of the 4-byte integer starting at offset 0 (big endian).
- Added a new ambient sound flag, "No Position", which means the sound will not have any directional/positional effects applied to it - it will sound the same from anywhere on the map. The flag is the 2nd bit in the flags field (see above).
- i) Added new MA parameters 'plyr' and 'team' to restrict which players or teams the MA executes for. This works with the following actions: sound, ambient sound, observer movement, local projectile, in-game fade. Actions using this parameter will always return failure.
- j) Added new MA "Unit Indicators" ('uind'), which currently does the same thing as the overhead text part of Unit Control, but can be used with player/team restrictions.
- k) New MA 'Custom Scoring' which allows getting/setting/adding/subtracting to teams point scores. Only works for custom and point-based gametypes (hunting, assassin and stampede). (Documented in templates)
- New munger parameter reboot ('areb'), element type action identifier (action(s) to be rebooted). Rebooting an action causes its state to be rebuilt from its current parameters. This enables param munging on MA types that read parameters only once during their initial activation, which makes regular param munging ineffective. Rebootable actions include but are not limited to: assassin, invisible, lock, meander, melee, suicide, surround, test unit, world knot.
- m) New MA 'Custom Endgame' to control when your custom scoring game ends. (Documented in templates)
- n) New ambient life map action type 'bear' that makes them attack players' units.
- o) New monster extra flag "don't autoequip initial artifacts" which (1) sets the monster back to inventory 0 after giving it the artifacts, and (2) forces the monster to acquire all the initial artifacts, instead of stopping at the first one that cannot be holstered (which is essentially a bug, but can't be fixed now without breaking old plugins).
- p) TUNI "holding inventory" ('holi') can now check for a completely empty inventory by specifying NONE (' ', i.e. 4 spaces) as the parameter.
- q) TUNI "holding object" ('hold') can now check that the monster's does not currently have any object active by specifying NONE (' ', i.e. 4 spaces) as the parameter.
- r) New CTRL flags to toggled monster netgame target (ngtf), hunted created 'hdcf' and ambient life 'mamb' flags.

7. Power User Preferences

Myth II 1.8 provides a mechanism for setting certain preference settings that are not available in the standard preferences user interface. These settings can be set by creating a special "poweruser.txt" file in the Myth II preferences folder.

The format of the file follows a structure that consists of headers, in square brackets, and individual preference settings as key/value pairs. The following listing is an example of such a file:

[Section1.Name]
SomePref1=100
SomePref2=False
[Section2.Name]
SomePref3=some value

The following sections and keys are supported in Myth II 1.8:

[Net.Hosting]	
Кеу	Description
PortNumber	Port number used when hosting games. May be useful to bypass firewalls that block specific ports.

[Net.PluginLookup]	
Кеу	Description
WebUrl	URL used when looking up missing plugins. By default, Myth II 1.7 uses The Tain to find missing plugins, but this setting allows the user to specify a different URL to be used.

[ບາ]		
Key	Description	
DebugControlBounds	Draws rectangles to indicate dialog control bounds - useful for those wishing to create custom interfaces. Hardcoded controls are shown in red. The default value is False.	

Renderer.DirectX11]		
Кеу	Description	
ErasePreviousFrame	Erase the previous frame before drawing a new one. This prevents the 'hall of mirrors' effect seen under models and at mesh edges. The default value is False except when viewing films or being an observer.	
ClearColor	If ErasePreviousFrame is enabled, the color used to fill the screen (RGB).	
MSAASamples	Enables multisample antialiasing with the specified number of samples. Typical video cards support 2, 4, or 8 samples. The default value is 1.	
TextureLodBias	Specifies the texture level of detail bias, as described here: <u>http://www.opengl.org/registry/specs/EXT/texture_lod_bias.txt</u> The default value is -0.5.	
TripleBuffer	Enables triple buffering, which can smooth out the frame rate and prevent stuttering when V-sync is enabled. The default value is True.	
MaxAnisotropy	Sets the maximum anisotropy level used when anisotropic filtering is enabled in preferences. Typical values are 2, 4, 8 and 16. The default value is 8.	

[Renderer.OpenGL]

Кеу	Description	
ErasePreviousFrame	Erase the previous frame before drawing a new one. This prevents the 'hall of mirrors' effect seen under models and at mesh edges. The default value is False except when viewing films or being an observer.	
ClearColor	If ErasePreviousFrame is enabled, the color used to fill the screen (RGB).	
UseAppleClientStorage	Use the GL_APPLE_client_storage extension when appropriate. Mac only. The default value is True.	
UseDepthTest	Use depth test to ensure correct rendering of models that overlap or intersect with the mesh. The default value is auto-detected to be False on some systems to provide better FPS, while set to True on all other systems.	
UseMipMaps	Whether Myth will use mip maps for all textures, which should improve performance with larger sprites or when very zoomed out. Defaults to True on systems where mipmaps are properly supported.	
UseShaders	Use OpenGL shaders for increased performance. Defaults to True if OpenGL version is OpenGL 2.1 or higher, except on Intel cards where it defaults to False.	
UpdateCMapChunked	Whether Myth will update the color map in chunks, or by sending the full texture. The default value is auto-detected to be False on some systems to provide better FPS, while set to True on all other systems.	
UseCmapTiles	Enables colormap tile cache system for improved performance when moving the camera and at large zoom levels. Defaults to true if UseShaders is supported, False otherwise.	
ReuseContext	Specifies whether Myth will re-create the OpenGL context for every game or re- use the first one that was created. Defaults to False for Windows Vista or later, True otherwise. Supported in Windows Modern only.	
TextureLodBias	Specifies the texture level of detail bias, as described here: <u>http://www.opengl.org/registry/specs/EXT/texture_lod_bias.txt</u> The default value is -0.5.	
MSAASamples	Enables multisample antialiasing with the specified number of samples. Typical video cards support 2, 4, or 8 samples. The default value is 1.	
MaxAnisotropy	Sets the maximum anisotropy level used when anisotropic filtering is enabled in preferences. Typical values are 2, 4, 8 and 16. The default value is 8.	

8. Credits

1.8 Credits

Core Team:

David Bregman, Windows, Graphics, UI and Core Programming Alexei Svitkine, Mac and Core Programming Andrew Lauritzen, DirectX 11, Improved Stats Tracking and Metaserver Features David Reta, Updated Interfaces, Updated Mapmaking Documentation, Quality Control

Additional Help From:

TODO

1.7.x Credits

Core Team:

Alexei Svitkine, Core Programming and Linux Port David Bregman, Windows and Graphics Programming Andrew Lauritzen, DirectX 11 Graphics Backend, Gameplay Bug Fixes David Reta, Updated Interfaces, Updated Mapmaking Documentation, Quality Control

Additional Help From:

Rowan Davies, High-Resolution Icons & Updated Demo Epilogue John Fernandes-Salling, Loathing Improvements Matthew Molloy, Last Minute Bug Fixes Mike Oldham, Programming, Website, Support Tools Michael Sheets, Updated Interface Graphics Iain Simms, Map Making Features Programming Andrew Sumner, "Overrides Player Tint" Flag

Prior Updates' Credits

Michael Baltaks, Programming David Bregman, Windows Programming Paul Bucher, Programming & Team Leader Chris Dreessen, Programming Yotam Gingold, OpenGL Programming Paul Jaeger, Programming Bill Keirstead, Mac OS X Programming Kyle Maclean, Programming Michael Sheets, Interface Graphics & Tags Andrew Sumner, Programming & Tag design Alexei Svitkine, Programming & Demo

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