

## Ryzom - Bug # 889

<b>Status:</b>	Closed	<b>Priority:</b>	Normal
<b>Author:</b>	rti	<b>Category:</b>	NeL: General
<b>Created:</b>	05/12/2010	<b>Assignee:</b>	kervala
<b>Updated:</b>	05/28/2010	<b>Due date:</b>	
<b>Subject:</b>	NLMISC ticksToSecond error on Mac OS X (Patch included)		
<b>Description</b>			
<p>In Ryzom client on Mac OS X all the animations are running way to fast. I looked a bit deeper into it, the result it the attached patch.</p> <p>The basic problem was, that there was a division by 1'000'000 instead of 1'000'000'000 in CTime::ticksToSecond. I changed a few more lines for the following reason: This function gets called very frequently, so it needs to be very fast. The original version already used a static for caching the mach_timebase_info_data_t. I now went a bit further and cache the actual conversion factor in a static. This saves us one multiplication and one division :) Yay!</p> <p>I am not quite sure what happens in case of frequency scaling. As I understand it, the conversion factor should change with a changed CPU frequency. If this is the case, another patch might be necessary here.</p>			

### History

#### #1 - 05/12/2010 11:45 am - kervala

- Status changed from New to Assigned
- Assignee set to kervala

Thanks a lot ;)

#### #2 - 05/12/2010 11:46 am - kervala

- Status changed from Assigned to Resolved
- % Done changed from 0 to 100

Applied in changeset r106.

#### #3 - 05/12/2010 11:46 am - kervala

- Target version set to Version 0.8.0

#### #4 - 05/12/2010 11:48 am - kervala

Hum, i noticed something, didn't you forget "mach\_timebase\_info(&tblInfo)" to initialize tblInfo ?

#### #5 - 05/12/2010 11:58 am - rti

- File nel\_misc\_CTime\_ticksToSecond\_fix\_mac\_os\_x\_THE\_WORKING\_ONE.patch added

I am sorry. Two errors in a ~8 lines patch.

Here is the fixed one.

**#6 - 05/12/2010 12:06 pm - kerval**

Applied in changeset r107.

**#7 - 05/28/2010 05:24 pm - vl**

- Status changed from Resolved to Closed

**Files**

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NLMISC_CTime_ticksToSecond_fix_mac_os_x.patch	667 Bytes	05/12/2010	rti
nel_misc_CTime_ticksToSecond_fix_mac_os_x_THE_WORKING_ONE.patch	701 Bytes	05/12/2010	rti