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**[ATN-57] ac3d, gaussian and maya do not work on Dell 745s** Created: 11/Mar/09 Updated: 29/Apr/09 Due: 30/Jun/09

<b>Status:</b>	Closed
<b>Project:</b>	<a href="#">Athena 10</a>
<b>Component/s:</b>	None
<b>Affects Version/s:</b>	<a href="#">Early Cluster</a> , <a href="#">Cluster with Quickstation</a> , <a href="#">Production</a>
<b>Fix Version/s:</b>	<a href="#">Production</a>

<b>Type:</b>	Bug	<b>Priority:</b>	Major
<b>Reporter:</b>	<a href="#">Bill Cattey</a>	<b>Assignee:</b>	<a href="#">Bill Cattey</a>
<b>Resolution:</b>	Won't Fix	<b>Votes:</b>	0
<b>Remaining Estimate:</b>	1 hour		
<b>Time Spent:</b>	Not Specified		
<b>Original Estimate:</b>	1 hour		

### Description

Repeat by:

setup gaussian

In the window that opens:

gv

Windows don't refresh properly when the application's windows open. The launch terminal prints:

```
*****WARN_ONCE*****
File r300_render.c function r300Fallback line 371
Software fallback:ctx->RenderMode != GL_RENDER
*****
```

Same error with maya. Repeat by:

```
add maya_v8.5
maya
```

----

ac3d, another 3d rendering program has problems as well. Repeat by:

```
add ac3d
ac3d
```

The symptom here is:

The GUI opens very slowly- there are 4 panels that should be filled with rectangular grids- these fill up over a couple of seconds or so each but it should essentially be instantaneous. Pull-down menus appear frozen and unresponsive, though after multiple attempts they sometimes work again.

The launch window prints the message:

```
do_wait: drmWaitVBlank returned -1, IRQs don't seem to be working correctly.  
Try adjusting the vblank_mode configuration parameter.
```

----

The root cause of this problem is that the Open GL renderer from the DRI R300 Project that is in the Intrepid epoch of the radeon driver (1.3) cannot do the work. The 3d support is just not far enough along.

We need to test this under Jaunty and see what the radeon driver does there.

The radeonhd drivers from intrepid on 755s don't have this problem. The vesa driver doesn't have this problem. That is because they both fall back to the Mesa Software Rasterizer (version 2.1) which works correctly albeit without any hardware acceleration.

QUESTION: Do we want to fix this for Intrepid?

### Comments

Comment by [Bill Cattey](#) [ 11/Mar/09 05:07 PM ]

Add ac3d to this Jira as well.

Comment by [Bill Cattey](#) [ 17/Mar/09 06:48 PM ]

Someone asked me in hallway chat today, "Why not just go with fgldr drivers?"

I've heard second hand from a user, "Fgldr recently announced that my video card [Mobility X1400 aka R500 family]" will not be supported in the future releases.

Additional info on driver performance: "Both radeon and radeon\_hd work on my hardware [Mobility X1400 aka R500 family], and both provide adequate 3d hardware support. Radeon is notably faster than radeon\_hd.

This user also suggested we, "have a Wiki page dedicated to Athena users willing to enable 3D with proper support. The advanced desktop surely does catch people eyes and boosts user productivity."

Comment by [Bill Cattey](#) [ 20/Mar/09 07:17 PM ]

The Optiplex 760 with the ATI Mobility Radeon HD 3450 seems to work much better. It does use the "radeon" driver by default. The screen configures for 1680x1050x24 planes. The applications seem to run without complaint.

On this hardware it knows to use the Mesa software renderer, and so it does not get into trouble.

This is all good news.

Does your maya core dump when I select "Renderer" and choose "High Quality"?

Comment by [Jonathan D Reed](#) [ 29/Apr/09 03:19 PM ]

Concentrate on Jaunty. See Trac 233

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