

Doomsday Engine - Bug #2049

Inadequate minimum OpenGL version detection/handling (Windows)

2015-05-13 10:08 - danij

Status:	Closed	Start date:	2015-05-13
Priority:	High	% Done:	100%
Assignee:	skyjake		
Category:	Defect		
Target version:	1.15		
Description			
<p>The default display driver on Windows 7 does not support OpenGL 2.0 (or later) resulting in the Doomsday client failing to start. The client either does not display an error dialog or, the standard Windows "An error has occurred" dialog is displayed instead. At the very least a native dialog should be displayed, presenting a user friendly description of the problem and allowing the user to terminate the client gracefully.</p> <p>Furthermore, it is not possible to use QtCreator to debug this issue because the IDE itself requires OpenGL to function at all.</p>			

Associated revisions

Revision 6a0815b1 - 2015-05-13 21:48 - skyjake

Fixed|Windows|libgui: Crash during startup if display driver doesn't support OpenGL 2

Entrypoints were null, calls were still being made.

IssueID #2049

Revision a73892f9 - 2015-05-13 21:49 - skyjake

Fixed|Windows|libgui: Crash during startup if display driver doesn't support OpenGL 2

Entrypoints were null, calls were still being made.

IssueID #2049

History

#1 - 2015-05-13 10:10 - danij

- File *doomsday.out* added

#2 - 2015-05-13 10:13 - skyjake

If the minimum OpenGL version check fails, the current behavior is to show an error dialog box (using *nativeui.cpp*). I take it this isn't working on Windows (7)?

danij wrote:

standard Windows "An error has occurred" dialog is displayed instead

That would mean it crashes before/during Doomsday's dialog is shown.

#3 - 2015-05-13 10:15 - skyjake

- Subject changed from *Inadequate minimum OpenGL version detection/handling* to *Inadequate minimum OpenGL version detection/handling (Windows)*

#4 - 2015-05-13 10:35 - danij

Doomsday's dialog is not shown and no error is printed in the log, on Windows 7 64-bit.

#5 - 2015-05-13 21:42 - skyjake

- Status changed from *New* to *In Progress*

- Assignee set to *skyjake*

- Target version set to *1.15*

- % Done changed from 0 to 100

The problem was that a number of calls were attempted to the OpenGL 2+ entypoints that were all nullptr because of the old driver. These occurred when the window first appears and tries to get itself painted.

It is good to note that the OpenGL context is not available before the window has appeared. It would make sense to delay drawing anything in the window before the OpenGL checks have been made.

(I used Windows 8.1 Pro 64-bit with the Nvidia driver uninstalled, MSVC for debugging.)

#6 - 2015-05-13 21:50 - skyjake

- Status changed from *In Progress* to *Closed*

#7 - 2015-05-13 22:50 - danij

Very glad to hear this is now fixed.

(Trying to debug anything using Qt Creator on Windows is a complete nightmare and given the IDE won't even start up without OpenGL - I gave up in sheer frustration trying to address this).

Files

doomsday.out	3.31 KB	2015-05-13	danij
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