
Subject: : AmigaOS4

Topic: : SDL1 open issues

Re: SDL1 open issues

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Date: : 2019/3/15 10:33:04

URL:

@Capehill

Yes, i can reproduce it also with SDL1 debug version.

I do some test and i can say that i have atleast two kind of results when i run a second instance of that demo, or a freeze or a DSI crash and these seems happen randomly

As you may think it's probably caused by MiniGL, actually i'm using a beta version of MiniGL 2.23 (not yet publically released)

Here the library so you can test:

http://s000.tinyupload.com/index.php?file_id=00084931244575550894

And here the crash:

Quote:

```
Crash log for task "testgl"  
Generated by GrimReaper 53.19  
Crash occured in module minigl.library at address 0x6F8840B4  
Type of crash: DSI (Data Storage Interrupt) exception  
Alert number: 0x80000003
```

Register dump:

GPR (General Purpose Registers):

```
0: 00023300 56693A70 00000000 00000000 566939E8 56693A88 021CAAFC 021CAB6C  
8: 558E1DA0 54660000 00000000 57C14000 000001C4 5456AE88 00000000 55BDC4D8  
16: 55BDC4BC 54560000 000001A6 20000000 54562EB4 56693BA0 56693B40 00000532  
24: 56693B44 56693BA4 56693BA8 56693B48 56693B2C 54562EB0 5FF4DFA8 578B4000
```

FPR (Floating Point Registers, NaN = Not a Number):

```
0:      nan      -0.330823      0.615101      -0.330823  
4:      0.715751      0.615102           0           0  
8:     -0.330823      0.715751      0.615102           0  
12:           0      0.615102           0          -0  
16:           0           0           0           0
```

```
20: 0 0 0 0 0
24: 0 0 0 2.65249e-315 0
28: 0 5 0 1
```

FPSCR (Floating Point Status and Control Register): 0x82008000

SPRs (Special Purpose Registers):

Machine State (msr) : 0x0002F030

Condition (cr) : 0x4FB6DDA0

Instruction Pointer (ip) : 0x6F8840B4

Xtended Exception (xer) : 0x018233AC

Count (ctr) : 0x00000000

Link (lr) : 0x00000000

DSI Status (dsisr) : 0x01842B34

Data Address (dar) : 0x00000000

680x0 emulated registers:

DATA: 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000

ADDR: 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000

FPU0: 0 0 0 0

FPU4: 0 0 0 0

Symbol info:

Instruction pointer 0x6F8840B4 belongs to module "minigl.library" (HUNK/Kickstart)

Stack trace:

module LIBS:minigl.library at 0x6F8840B4 (section 5 @ 0x55090)

AmigaOS4:SOBjs/libSDL-1.2.so:os4video_GL_SwapBuffers()+0xc0 (section 8 @ 0x3D918)

AmigaOS4:SOBjs/libSDL-1.2.so:SDL_GL_SwapBuffers()+0x48 (section 8 @ 0x27F7C)

testgl:RunGLTest()+0xc7c (section 7 @ 0x2018)

testgl:main()+0x2d8 (section 7 @ 0x26C8)

native kernel module newlib.library.kmod+0x000020ac

native kernel module newlib.library.kmod+0x00002d14

native kernel module newlib.library.kmod+0x00002ef0

testgl:_start()+0x170 (section 7 @ 0x16C)

native kernel module dos.library.kmod+0x000255c8

native kernel module kernel+0x0003e7b4

native kernel module kernel+0x0003e7fc

PPC disassembly:

6f8840ac: 7d601850 sub r11,r3,r0

6f8840b0: 7d435378 mr r3,r10

*6f8840b4: 814a006c lwz r10,108(r10)

6f8840b8: 808b2210 lwz r4,8720(r11)

6f8840bc: 7d4903a6 mtctr r10

System information:

CPU

Model: AMCC PPC440EP V1.3

CPU speed: 799 MHz

FSB speed: 133 MHz

Extensions:

Machine

Machine name: Sam440EP

Memory: 1048576 KB

Extensions: bus.pci