
Subject: : AmigaOS4

Topic: : SDL2

Re: SDL2

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URL:

@Raziel

You may wait another year :) I can upload test version of libSDL with that fix if you wish to close the ticket. Or can not upload if you do not want to do anything now :)

@Capehill

I was lucky enough and able to reproduce the crash in native-threads on my pegasos2, when DOSBox have "nosound=false" option set. There is crash log :

Crash log for task "dosbox_native_threads"

Generated by GrimReaper 53.19

Crash occurred in module dosbox_native_threads at address 0x7F9CAB58

Type of crash: DSI (Data Storage Interrupt) exception

Alert number: 0x80000003

Register dump:

GPR (General Purpose Registers):

```
0: 7F9CAB38 62EC4710 00000000 00000000 FFFFFFFF 00000001 021D0F7C 00000000
8: 19343D00 00000000 021C6A02 65098CE0 2A822444 686D8020 00000000 65E25340
16: 7F8782B0 00000000 6878E4F0 655CF018 02270000 65E9CC60 00000000 00000000
24: 64B776B4 00000000 6867DAEC 7F993DC8 62774B18 627747D8 64D6CF0C 65098CC0
```

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

```
0:      nan      nan      340      0
4:      0      649.8     24.8      0
8:      0      128     649.8    54.9254
12:  4.5036e+15    365      0      0
16:      0      0      0      0
20:      0      0      0      0
24:      0      0      0      0
28:      0      0      0      0
```

FPSCR (Floating Point Status and Control Register): 0x82004000

SPRs (Special Purpose Registers):

Machine State (msr) : 0x0200F030

Condition (cr) : 0x6083BD80

Instruction Pointer (ip) : 0x7F9CAB58

Xtended Exception (xer) : 0x018216A4

Count (ctr) : 0x6083C0F8

Link (lr) : 0x0002000E

DSI Status (dsisr) : 0x607EB354

Data Address (dar) : 0x6083C0F8

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 0x7F9CAB58 belongs to module "dosbox_native_threads" (PowerPC)

Symbol: SDL_SYS_CreateThread + 0xAC in section 1 offset 0x002AAB34

Stack trace:

SDL_SYS_CreateThread()+0xac (section 1 @ 0x2AAB34)

SDL_SYS_CreateThread()+0x8c (section 1 @ 0x2AAB14)

open_audio_device()+0x608 (section 1 @ 0x2761E8)

[mixer.cpp:722] _Z10MIXER_InitP7Section()+0x400 (section 1 @ 0x10DEB8)

[setup.cpp:810] _ZN6Config4InitEv()+0x54 (section 1 @ 0x23AC24)

[sdlmain.cpp:3110] main()+0x5ac (section 1 @ 0x158838)

native kernel module newlib.library.kmod+0x000020a4

native kernel module newlib.library.kmod+0x00002d0c

native kernel module newlib.library.kmod+0x00002ee8

_start()+0x170 (section 1 @ 0x1920)

native kernel module dos.library.kmod+0x00024c18

native kernel module kernel+0x000436f0

native kernel module kernel+0x00043770

PPC disassembly:

7f9cab50: 831e8004 lwz r24,-32764(r30)

7f9cab54: 7d234b78 mr r3,r9

*7f9cab58: 8129005c lwz r9,92(r9)

7f9cab5c: 92c10108 stw r22,264(r1)

7f9cab60: 93210114 stw r25,276(r1)

System information:

CPU

Model: Motorola MPC 7447/7457 Apollo V1.1

CPU speed: 999 MHz

FSB speed: 133 MHz

Extensions: [performancemonitor](#) [altivec](#)

Machine

Machine name: [Pegasos II](#)

Memory: [1048576 KB](#)

Extensions: [bus.pci](#) [bus.agp](#)

Clearly SDL, with pthreads we didn't have that crash. Should i compile SDL with debug symbols, so you can see the line exactly?

Interesting that about that DOSBox's options "nosound" written that:

"nosound: enable silent mode, sound is still emulated through". And it crashes when we set it to "false". When we set it to true, then no crash when we use native-threads.

In other words it surely related to creating of audio process.