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Subject: : AmigaOS4

Topic: : Porting to AmigaOS4 thread

Re: Porting to AmigaOS4 thread

Author: : Raziel

Date: : 2019/10/7 19:01:37

URL:

@Capehill

Quote:

Quote:

It clashes with common/str.cpp and produce a crash, but nevermind.

Really? How?

Mostly stupidity, mixed with a little bit of c&p mistakes and lots of missing night sleep...

I can't reproduce the (str.cpp) crash anymore and i have another debug output ready, salass00 was right. Right before it should load the game it hits an IDOS: 0x0000000.

See:

IDOS: 0x6FCCC170

Minimum newlib version: 52.20

String: scummvm.ini

IDOS: 0x6FCCC170

Minimum newlib version: 52.20

String: plugins

IDOS: 0x6FCCC170

Minimum newlib version: 52.20

String: /usr/local/lib/scummvm

IDOS: 0x6FCCC170

Minimum newlib version: 52.20

String: Development:Coding/Ports/VM/scummvm-test/plugins/

IDOS: 0x6FCCC170

Minimum newlib version: 52.20

String: Games:ScummVM/themes/  
IDOS: 0x6FCCC170  
Minimum newlib version: 52.20  
String: Games:ScummVM/themes/translations.dat  
IDOS: 0x6FCCC170  
Minimum newlib version: 52.20  
String: scummremastered  
IDOS: 0x6FCCC170  
Minimum newlib version: 52.20  
String: Games:ScummVM/themes/  
IDOS: 0x6FCCC170  
Minimum newlib version: 52.20  
String: Games:ScummVM/themes/THEMERC  
IDOS: 0x6FCCC170  
Minimum newlib version: 52.20  
String: Games:ScummVM/themes/scummamigaos4/THEMERC  
IDOS: 0x6FCCC170  
Minimum newlib version: 52.20  
String: Games:ScummVM/themes/scummamigaos4/fonts/THEMERC  
IDOS: 0x6FCCC170  
Minimum newlib version: 52.20  
String: Games:ScummVM/themes/scummamigaos4/fonts/topaz/THEMERC  
IDOS: 0x6FCCC170  
Minimum newlib version: 52.20  
String: Games:ScummVM/themes/scummamigaos4/fonts/topaz/topazIt/THEMERC  
IDOS: 0x6FCCC170  
Minimum newlib version: 52.20  
String: Games:ScummVM/themes/fonts/THEMERC  
IDOS: 0x6FCCC170  
Minimum newlib version: 52.20  
String: Games:ScummVM/themes/fonts/topaz/THEMERC  
IDOS: 0x6FCCC170  
Minimum newlib version: 52.20  
String: Games:ScummVM/themes/fonts/topaz/topazIt/THEMERC  
IDOS: 0x6FCCC170  
Minimum newlib version: 52.20  
String: /usr/local/share/scummvm  
IDOS: 0x6FCCC170  
Minimum newlib version: 52.20  
String: Games:ScummVM/themes/scummremastered.zip  
IDOS: 0x6FCCC170  
Minimum newlib version: 52.20  
String: Games:ScummVM/themes/scummremastered.zip  
IDOS: 0x6FCCC170  
Minimum newlib version: 52.20  
String: Games:ScummVM/extras/  
IDOS: 0x6FCCC170  
Minimum newlib version: 52.20  
String: Games:ScummVM/extras/  
IDOS: 0x6FCCC170  
Minimum newlib version: 52.20

```
String: Games:ScummVM/extras/
IDOS: 0x6FCCC170
Minimum newlib version: 52.20
String: Games:ScummVM/extras/
IDOS: 0x6FCCC170
Minimum newlib version: 52.20
String: Games:ScummVM/extras/
IDOS: 0x6FCCC170
Minimum newlib version: 52.20
String: Games:GamesVM/AGI/Enclosure/
IDOS: 0x6FCCC170
Minimum newlib version: 52.20
String: Games:GamesVM/Sierra/Space Quest/The Pirates of Pestulon/
IDOS: 0x6FCCC170
Minimum newlib version: 52.20
String: Games:GamesVM/Westwood Studios/Blade Runner/
IDOS: 0x6FCCC170
Minimum newlib version: 52.20
String: Games:GamesVM/Lucas Arts/Monkey Island/LeChuck's Revenge/
IDOS: 0x6FCCC170
Minimum newlib version: 52.20
String: scummvm.ini
IDOS: 0x6FCCC170
Minimum newlib version: 52.20
String: scummvm.ini
IDOS: 0x00000000
Minimum newlib version: 52.20
String: Games:GamesVM/Lucas Arts/Monkey Island/LeChuck's Revenge/
Dump of context at 0xDF7FA000
Trap type: DSI exception
Machine State (raw): 0x100000000200B030
Machine State (verbose): [Hyper] [ExtInt on] [Super] [FPU on] [IAT on] [DAT on]
Instruction pointer: 0x7EF6714C
Crashed process: scummvm (0x4E5C37E0)
DSI verbose error description: Access not found in hash or BAT (page fault)
Access was a load operation
0: 7EF67120 4797A890 38C00000 4B59E038 47A8DEEF 00000003 0000004C 6875636B
8: 4B59E040 00000000 00000000 4797A890 00000798 49C72D0C 00000000 46F5F340
16: 7EE2D10C 00000000 4DB6B9D0 47A88DD8 02B30000 02B30000 00000000 00000001
24: 6FF8C180 00000001 57955999 00000000 02973054 4B59E038 49C67DB8 4797A890
CR: 5B953399 XER: A0000054 CTR: 00000000 LR: 7EF67120
DSISR: 40000000 DAR: 00000474

FP0 : FFF8000082004000 3FF0000000000000 0000000000000000 3FF0000000000000
FP4 : 3FF0000000000000 BFF0000000000000 3FF0000000000000 3FE0000000000000
FP8 : 406E000000000000 3FE0000000000000 3FF0000000000000 43300000800001E0
FP12: 4330000080000280 41E0000000000000 0000000000000000 0000000000000000
FP16: 0000000000000000 0000000000000000 0000000000000000 0000000000000000
FP20: 0000000000000000 0000000000000000 0000000000000000 0000000000000000
FP24: 0000000000000000 0000000000000000 0000000000000000 0000000000000000
FP28: 0000000000000000 0000000000000000 0000000000000000 8000000000000000
```

FPSCR: 82004000

HID0: 0x8000000000000000 HID1: 0x000000005CE993B1

HID4: 0x4400240000080180 HID5: 0x0000006600000080

V0 : 00000000000000000000000000000000 00000000000000000000000000000000  
V2 : FE01D629FE01D629FE01D629FE01D629 FE01D629FE01D629FE01D629FE01D629  
V4 : FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF D62AD62AD62AD62AD62AD62AD62AD62A  
V6 : FF01D729FF01D729FF01D729FF01D729 FE01D629FE01D629FE01D629FE01D629  
V8 : 00000000000000000000000000000000 D52AD52AD52AD52AD52AD52AD52AD52A  
V10: FFD6D7D6FFD6D7D6FFD6D7D6FFD6D7D6 00000000000000000000000000000000  
V12: 00000000000000000000000000000000 00000000000000000000000000000000  
V14: 001002120414061608180A1A0C1C0E1E 01000100010001000100010001000100  
V16: FF000000FF000000FF000000FF000000 FFD6D7D6FFD6D7D6FFD6D7D6FFD6D7D6  
V18: FE01D629FE01D629FE01D629FE01D629 00000000000000000000000000000000  
V20: 00000000000000000000000000000000 00000000000000000000000000000000  
V22: 00000000000000000000000000000000 00000000000000000000000000000000  
V24: 00000000000000000000000000000000 00000000000000000000000000000000  
V26: 00000000000000000000000000000000 00000000000000000000000000000000  
V28: 00000000000000000000000000000000 00000000000000000000000000000000  
V30: 00000000000000000000000000000000 00000000000000000000000000000000  
VSCR: 00000000 VRSAVE: 00000000

Disassembly of crash site:

```
7EF6713C: 39400000 li r10,0
7EF67140: 99490049 stb r10,73(r9)
7EF67144: 813E8018 lwz r9,-32744(r30)
7EF67148: 81290000 lwz r9,0(r9)
>7EF6714C: 83A90474 lwz r29,1140(r9)
7EF67150: 813E8018 lwz r9,-32744(r30)
7EF67154: 83890000 lwz r28,0(r9)
7EF67158: 813F0028 lwz r9,40(r31)
7EF6715C: 39290028 addi r9,r9,40
7EF67160: 7D234B78 mr r3,r9
```

Kernel command line: serial munge debuglevel=1

Registers pointing to code:

```
r0 : [backends/fs/amigaos4/amigaos4-fs.cpp:94] scummvm:
_ZN21AmigaOSFilesystemNodeC2ERKN6Common6StringE()+0x198 (section 11 @ 0x1417A4)
r13: scummvm:_ZZN7MT32Emu6Tables11getInstanceEvE8instance()+0x86c (section 32 @ 0x7B28)
r16: scummvm:main()+0x0 (section 11 @ 0x7790)
r20: native kernel module graphics.library.kmod+0x00860580
r21: native kernel module graphics.library.kmod+0x00860580
r23: module wait at 0x00000001 (section 0 @ 0xFFFFFDC)
r25: module wait at 0x00000001 (section 0 @ 0xFFFFFDC)
r28: native kernel module kernel+0x00973054
r30: scummvm:logo_data()+0x1804 (section 26 @ 0x33F4)
ip : [backends/fs/amigaos4/amigaos4-fs.cpp:100] scummvm:
_ZN21AmigaOSFilesystemNodeC2ERKN6Common6StringE()+0x1c4 (section 11 @ 0x1417D0)
lr : [backends/fs/amigaos4/amigaos4-fs.cpp:94] scummvm:
_ZN21AmigaOSFilesystemNodeC2ERKN6Common6StringE()+0x198 (section 11 @ 0x1417A4)
```

ctr: unknown (0x00000000)

#### Stack trace:

```
(0x4797A890) [backends/fs/amigaos4/amigaos4-fs.cpp:100] scummvm:
_ZN21AmigaOSFilesystemNodeC2ERKN6Common6StringE()+0x1c4 (section 11 @ 0x1417D0)
(0x4797A8D0) [backends/fs/amigaos4/amigaos4-fs.cpp:94] scummvm:
_ZN21AmigaOSFilesystemNodeC2ERKN6Common6StringE()+0x198 (section 11 @ 0x1417A4)
(0x4797A8F0) [common/fs.cpp:45] scummvm: _ZN6Common6FSNodeC2ERKNS_6StringE()+0x134 (
section 11 @ 0x3720A4)
(0x4797A930) [base/main.cpp:147] scummvm: _ZL7runGamePK6PluginR7OSystemRKN6Common6StringE()+
0x88 (section 11 @ 0x8240)
(0x4797AE20) [base/main.cpp:566] scummvm: scummvm_main()+0xd94 (section 11 @ 0xA180)
(0x47A220D0) [backends/platform/sdl/amigaos/amigaos-main.cpp:79] scummvm: main()+0x264 (section 11 @
0x79F4)
(0x47A22D00) native kernel module newlib.library.kmod+0x000020a4
(0x47A22D70) native kernel module newlib.library.kmod+0x00002d0c
(0x47A22F10) native kernel module newlib.library.kmod+0x00002ee8
(0x47A22F50) scummvm: _start()+0x170 (section 11 @ 0x1AB8)
(0x47A22F90) native kernel module dos.library.kmod+0x000255c8
(0x47A22FC0) native kernel module kernel+0x000420ac
(0x47A22FD0) native kernel module kernel+0x000420f4
```

#### Disassembly of crash site:

```
7EF6713C: 39400000 li r10,0
7EF67140: 99490049 stb r10,73(r9)
7EF67144: 813E8018 lwz r9,-32744(r30)
7EF67148: 81290000 lwz r9,0(r9)
>7EF6714C: 83A90474 lwz r29,1140(r9)
7EF67150: 813E8018 lwz r9,-32744(r30)
7EF67154: 83890000 lwz r28,0(r9)
7EF67158: 813F0028 lwz r9,40(r31)
7EF6715C: 39290028 addi r9,r9,40
7EF67160: 7D234B78 mr r3,r9
```

Stack pointer (0x4797A890) is inside bounds

Redzone is OK (4)

#### 68k register dump

DATA: 00000001 00000000 00000000 00000000 00000000 00000000 00000000 00000000

----> 00000001 - "wait" Hunk 0000 Offset 00000000 (SegList: 0x11E20CF5)

ADDR: 6FFB8700 93BEC100 00000000 00000000 00000000 00000000 00000000 4797A1B0

#### Page information:

Page not found

Also, i made an [exhausting post](#) over at Hyperion with all the information gathered in one place, maybe you want to continue there, since this thread seems to get derailed?