
Subject: : AmigaOS4

Topic: : Porting to AmigaOS4 thread

Re: Porting to AmigaOS4 thread

Author: : Raziel

Date: : 2019/9/23 9:57:24

URL:

@all

Why would this (1. first stracktrace entry, 2. second stacktrace entry)

```
AmigaOSFilesystemNode::AmigaOSFilesystemNode(const Common::String &p) {
    ENTER();

    int offset = p.size();

    //assert(offset > 0);

    if (offset <= 0) {
        debug(6, "Bad offset");
        return;
    }

    _sPath = p;
2. -> _sDisplayName = ::lastPathComponent(_sPath);
    _pFileLock = 0;
    _blsDirectory = false;
    _blsValid = false;

    // Check whether the node exists and if it's a directory
1. -> struct ExamineData * pExd = IDOS->ExamineObjectTags(EX_StringNameInput,_sPath.c_str(),
TAG_END);
    if (pExd) {
        _nProt = pExd->Protection;
        if (EXD_IS_DIRECTORY(pExd)) {
            _blsDirectory = true;
            _pFileLock = IDOS->Lock((CONST_STRPTR)_sPath.c_str(), SHARED_LOCK);
            _blsValid = (_pFileLock != 0);

            // Add a trailing slash if needed
            const char c = _sPath.lastChar();
            if (c != '/' && c != ':')
                _sPath += '/';
        } else {
```

```

//_blsDirectory = false,
_blsValid = true;
}

IDOS->FreeDosObject(DOS_EXAMINEDATA, pExd);
}

LEAVE();
}

```

crash when using shared objects, but work perfectly fine when using a static build?

Crash log for task "scummvm"

Generated by GrimReaper 53.19

Crash occurred in module scummvm at address 0x7F1E06BC

Type of crash: DSI (Data Storage Interrupt) exception

Alert number: 0x80000003

Register dump:

GPR (General Purpose Registers):

```

0: 7F1E0690 4ECCE890 DF0D3C60 4BDB6BA8 486AABA7 00000002 00000042 61646520
8: 4BDB6BB0 00000000 00000000 4ECCE890 00000798 5BCFCE4C 00000000 4F087000
16: 7F0A6740 00000000 4BCBE9D0 4BDB2E08 02B30000 02B30000 00000000 00000003
24: 6FF8C180 00000002 46844888 00000000 4BDB3880 4BDB6BA8 5BCF20B4 4ECCE890

```

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

```

0:      nan      1      0      1
4:      1      -1      1      0.5
8:     240      0.5      1  4.5036e+15
12:  4.5036e+15  2.14748e+09      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) : 0x0200B030

Condition (cr) : 0x4E85CC4C

Instruction Pointer (ip) : 0x7F1E06BC

Xtended Exception (xer) : 0x4D78A018

Count (ctr) : 0x6FF494D0

Link (lr) : 0x7FB21920

DSI Status (dsisr) : 0x4D789DD0

Data Address (dar) : 0x021AD048

680x0 emulated registers:

DATA: 00000001 00000000 00000000 00000000 00000000 00000000 00000000 00000000
ADDR: 6FFB8700 96298900 00000000 00000000 00000000 00000000 00000000 4ECCE1B0
FPU0: 0 0 0 0
FPU4: 0 0 0 0

Symbol info:

Instruction pointer 0x7F1E06BC belongs to module "scummvm" (PowerPC)

Symbol: _ZN21AmigaOSFilesystemNodeC2ERKN6Common6StringE + 0x108 in section 11 offset 0x0014170C

Stack trace:

[backends/fs/amigaos4/amigaos4-fs.cpp:88] scummvm:
_ZN21AmigaOSFilesystemNodeC2ERKN6Common6StringE()+0x108 (section 11 @ 0x14170C)
[backends/fs/amigaos4/amigaos4-fs.cpp:82] scummvm:
_ZN21AmigaOSFilesystemNodeC2ERKN6Common6StringE()+0xdc (section 11 @ 0x1416E0)
[common/fs.cpp:45] scummvm:_ZN6Common6FSNodeC2ERKNS_6StringE()+0x134 (section 11 @
0x36FD10)
[base/main.cpp:147] scummvm:_ZL7runGamePK6PluginR7OSystemRKN6Common6StringE()+0x88 (
section 11 @ 0x8240)
[base/main.cpp:566] scummvm:scummvm_main()+0xd94 (section 11 @ 0xA180)
[backends/platform/sdl/amigaos/amigaos-main.cpp:79] scummvm:main()+0x264 (section 11 @ 0x79F4)
native kernel module newlib.library.kmod+0x000020a4
native kernel module newlib.library.kmod+0x00002d0c
native kernel module newlib.library.kmod+0x00002ee8
scummvm:_start()+0x170 (section 11 @ 0x1AB8)
native kernel module dos.library.kmod+0x000255c8
native kernel module kernel+0x000420ac
native kernel module kernel+0x000420f4

PPC disassembly:

7f1e06b4: 813e8014 lwz r9,-32748(r30)
7f1e06b8: 81290000 lwz r9,0(r9)
*7f1e06bc: 83a90474 lwz r29,1140(r9)
7f1e06c0: 813e8014 lwz r9,-32748(r30)
7f1e06c4: 83890000 lwz r28,0(r9)

System information:

CPU
Model: P.A. Semi PWRficient PA6T-1682M VB1
CPU speed: 1800 MHz
FSB speed: 900 MHz
Extensions: altivec

Machine
Machine name: AmigaOne X1000
Memory: 2097152 KB
Extensions: bus.pci bus.pcie

Does it really has to do with not finding a path/directory?

Because that wouldn't be logical since the program accesses said path beforehand and does not crash.