

MAUS - Support #724

SL4.4 MAUS 0.0.7 ofstream test failure

04 October 2011 09:13 - Rogers, Chris

Status:	Rejected	Start date:	04 October 2011
Priority:	Normal	Due date:	
Assignee:	Rogers, Chris	% Done:	0%
Category:	Testing	Estimated time:	0.00 hour
Target version:	Future MAUS release		
Workflow:			

Description

Email from Durga:

Hi,

I am new to MICE - just getting started with MAUS and am having some teething trouble.

I tried installing the latest release -- the build seems to have worked, but it reports 1 failure when running the tests.

What I did:

```
- got maus-latest-release.tar.gz
- unpacked, ran ./tests/integration/install_then_build_then_test.bash
```

After I saw the failure, I re-tried `source env.sh, scon build & bash run_tests.bash -- same result.`

I don't want to clog your mail, so I have placed the logs here:

```
http://home.fnal.gov/~durga/maus_test_log.txt
http://home.fnal.gov/~durga/scons_build_log.txt
```

My system: SLF 4.4, Kernel: 2.6.9-89.0.3.ELsmp

I'd appreciate it if you could take a look and point out what I'm missing or doing incorrectly.

Thanks very much.

Durga

History

#1 - 04 October 2011 09:13 - Rogers, Chris

The test script failed to make a file in `$MAUS_ROOT_DIR/tmp`, like:

```
/disks/7/durga/m7/maus-latest-release/tmp/mice_module_test.dat
```

Can you see if this file exists and check you have read/write permission for:

```
/disks/7/durga/m7/maus-latest-release/tmp/
```

For example, do `"ls -lah"` and look at the output permissions. If you are curious, the error is coming from line 188-195 of

```
${MAUS_ROOT_DIR}/tests/cpp_unit/Config/MiceModuleTest.cc
```

#2 - 04 October 2011 16:50 - Rajaram, Durga

The tmp directory and the files in there do have rw permissions.

[the mice_module_test.dat file exists -- but I am not sure if its size looks reasonable to you]

```
[durga@e907ana7 maus-latest-release]$ ls -l /disks/7/durga/m7/maus-latest-release/tmp/mice_module_test.dat
-rw-r--r-- 1 durga e907 327 Oct  3 18:32 /disks/7/durga/m7/maus-latest-release/tmp/mice_module_test.dat
```

```
[durga@e907ana7 maus-latest-release]$ ls -lah tmp/
```

```
total 196K
drwxr-xr-x  2 durga e907 4.0K Oct  3 14:23 .
drwxr-xr-x 10 durga e907 4.0K Oct  4 10:36 ..
-rw-r--r--  1 durga e907  377 Oct  3 18:32 cpplint.out
-rw-r--r--  1 durga e907  633 Oct  3 18:31 g4_00.wrl
-rw-r--r--  1 durga e907  3.1K Oct  3 18:31 g4_01.wrl
-rw-r--r--  1 durga e907  3.1K Oct  3 18:31 g4_02.wrl
-rw-r--r--  1 durga e907  327 Oct  3 18:32 mice_module_test.dat
-rw-r--r--  1 durga e907  1.2K Oct  3 18:32 OutputPyJSON.tmp
-rw-r--r--  1 durga e907  97K Oct  3 18:35 pylint.out
-rw-r--r--  1 durga e907   21 Oct  3 18:32 test_core_go.tmp
-rw-r--r--  1 durga e907  2.0K Oct  3 18:32 test_cpplint.out
-rw-r--r--  1 durga e907  1.3K Oct  3 18:32 test_cpplint_out.out
```

#3 - 04 October 2011 16:57 - Rogers, Chris

File size is correct. So I can't imagine what went wrong! Only other thing I can think of is a buffering problem - attempt to read file before `fout.close()`. I guess if you're running over a network or something then that might happen... could try adding a sleep type command and see if that fixes it (in which case it is a bug) - could try inserting sleep line into `$(MAUS_ROOT_DIR)/tests/cpp_unit/Config/MiceModuleTest.cc` like:

```
#include <unistd.h>

...
[line 188]
    std::ofstream fout((test_module_path+test_module_name).c_str());
    fout << mice_mod_test.str();
    fout.close();
    sleep(1);
}
```

(not tested) and see if that works.

#4 - 04 October 2011 17:03 - Tunnell, Christopher

- File `maus_test_log.txt` added
- File `scons_build_log.txt` added

Added your files too.

Do you have any sym links?

I'm trying to figure out why `fstream` wouldn't work per this [line](#)

What type of filesystem is this? What are the contents of `/disks/7/durga/m7/maus-latest-release/tmp/mice_module_test.dat`?

(Just saw Chris's comments: could be a weird filesystem thing...)

#5 - 04 October 2011 17:48 - Rajaram, Durga

Hm..ok, let me see if I can get my hand on an SLF 5x machine and install there (currently working on SLF 4.4)

Meanwhile, in response to your suggestions and questions:

- No symbolic links to `$(MAUS_ROOT_DIR)` or `$(MAUS_ROOT_DIR)/tmp`
 - It is an ext3 fs; locally mounted disk
- ```
/dev/sdb1 /disks/7 ext3 defaults 1 2
```

```
[durga@e907ana7 maus-latest-release]$ df -h .
Filesystem Size Used Avail Use% Mounted on
/dev/sdb1 459G 355G 81G 82% /disks/7
```

-- Tried specifying the full path and filename explicitly in `MiceModuleTest.cc` - same result.

-- Tried sleeping before and after the open/close like so:

```
std::ofstream fout("/disks/7/durga/m7/maus-latest-release/tmp/mice_module_test.dat");
sleep(1);
fout << mice_mod_test.str();
sleep(1);
fout.close();
sleep(1);
Still fails
```

-- Content of dat file:

```
[durga@e907ana7 maus-latest-release]$ cat tmp/mice_module_test.dat
```

```
// ModuleTest.cards
//
// A test module for MiceModule
//
//
//
Module TestModule {
Dimensions 39.0 260.0 100.0 cm
Position 10.0 20.0 30.0 cm
Rotation 0.0 0.0 90.0 degree
PropertyString Material AIR
PropertyBool Invisible 1
PropertyInt Copies 1
PropertyDouble GreenColour 0.5
PropertyDouble RedColour 1.0
}
```

**#6 - 06 October 2011 14:29 - Rogers, Chris**

I think if this bug can't be repeated on another system, it has to go in rejected...

**#7 - 06 October 2011 15:32 - Tunnell, Christopher**

- Status changed from Open to Rejected

This is SL 4.4 which is like 6-10 years old, so it just sounds unsupported. At least we know it's an issue but he has it running on another machine.

**#8 - 06 October 2011 15:33 - Tunnell, Christopher**

- Subject changed from MAUS 0.0.7 test failure to SL4.4 MAUS 0.0.7 ofstream test failure

**Files**

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|                     |         |                 |                      |
|---------------------|---------|-----------------|----------------------|
| maus_test_log.txt   | 38.4 KB | 04 October 2011 | Tunnell, Christopher |
| scons_build_log.txt | 9.13 KB | 04 October 2011 | Tunnell, Christopher |