ctools - Bug #547

make check GException::par_file_open_error on Scientific Linux 6.3

10/11/2012 12:21 PM - Deil Christoph

[<i>x</i>	
Status:	Closed	Start date:	10/11/2012	
Priority:	Normal	Due date:		
Assigned To:	Knödlseder Jürgen	% Done:	100%	
Category:		Estimated time:	0.00 hour	
Target version:				
Description				
I installed the latest releated the latest releated the latest releated the latest releated the latest release the latest relea	ases gammalib 00-06-02 and ctools 00-05-	01 at work and got GExc	eption::par_file_open_error when running	
Making check in test make[1]: Entering directory `/lfs/l1/hess/users/deil/scratch/software/cta/gcc/ctools-00-05-01/test' make check-TESTS make[2]: Entering directory `/lfs/l1/hess/users/deil/scratch/software/cta/gcc/ctools-00-05-01/test'				
* Test ctools *				
Test ctobssim: terminate called after throwing an instance of 'GException::par_file_open_error' what(): *** ERROR in GPars::read(std::string): Unable to open parameter file 'pfiles/ctobssim.par'. Could not get a lock on the file. ./test_ctools.sh: line 73: 16555 Aborted (core dumped) \$ctobssim infile="data/crab.xml" outfile="events.fits" caldb="irf" irf="kb_E_50h_v3" ra=83.63 dec=22.01 rad=10.0 tmin=0.0 tmax=1800.0 emin=0.1 emax=100.0 . events.fits file is not valid FAIL: test_ctools.sh				

* Test cscripts *				
Test cspull: Traceback (File "/home/hfm/deil/sc app = cspull(sys.argv File "/home/hfm/deil/sc	most recent call last): ratch/software/cta/gcc/ctools-00-05-01/test) ratch/software/cta/gcc/ctools-00-05-01/test	//scripts/cspull.py", line : //scripts/cspull.py", line !	354, in <module> 53, ininit</module>	
File "/home/hfm/deil/sc pars.save(parfile)	ratch/software/cta/gcc/ctools-00-05-01/test	//scripts/cspull.py", line	113, in parfile	
File "/home/htm/deil/sc return _app.GPars_sa RuntimeError: *** ERRC	ratch/software/cta/gcc/install/lib64/python2 ave(self, *args) DR in GPars::write(std::string): Unable to op	.6/site-packages/gammal	ib/app.py", line 468, in save cspull.par'. Could not get a lock on the	
file. Exception TypeError: "ir cspull del of < m	file. Exception TypeError: "in method 'GApplication_logTerse', argument 1 of type 'GApplication const *'" in <bound method<="" td=""></bound>			
. pull.dat file is not valid FAIL: test_cscripts.sh				
*****	*****			
* ctools Python interface	e testing *			
Test executable analysis File "./test_python.py", pipeline_v1() File "./test_python.py", sim = ctobssim() File "/lfs/l1/hess/users/	s: Traceback (most recent call last): line 201, in <module> line 62, in pipeline_v1 deil/scratch/software/cta/gcc/ctools-00-05-0</module>	01/pyext/ctools.py", line 1	75, in <u>init</u>	
this = _ctools.new_cto RuntimeError: *** FRRC	obssim(*args))R in GPars::read(std::string): Unable to on	en parameter file 'ofiles/o	tobssim.par'. Could not get a lock on the	
file. FAIL: test_python.py				
3 of 3 tests failed				

Please report to jurgen.knodlseder@irap.omp.eu
======================================
make: *** [check-recursive] Error 1
 Why are the par files not found (but are found on my Mac using the same installation procedure)? Even if the par file is not found, why do I get "core dumped" from test_ctools.sh ?
tried two compilers (in separate build / installs of course), both give the same problem:
 gcc (GCC) 4.4.6 20120305 (Red Hat 4.4.6-4) icc (ICC) 13.0.0 20120731
l don't see this problem on my Mac so in case it matters, here's the Linux version info: Here's
cat /etc/system-release Scientific Linux release 6.3 (Carbon)
cat /proc/version
Linux version 2.6.32-279.9.1.el6.x86_64 (mockbuild@sl6.fnal.gov) (gcc version 4.4.6 20120305 (Red Hat 4.4.6-4) (GCC)) #1 SMP
Tue Sep 25 14.55.44 CD1 2012
Related issues:
Related to GammaLib - Feature # 550: Add configure test to checks if file loc Closed 10/11/2012
History
History #1 - 10/11/2012 12:35 PM - Deil Christoph
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(gdb) bt

- #0 0x00007ffff62108a5 in raise () from /lib64/libc.so.6
- #1 0x00007ffff6212085 in abort () from /lib64/libc.so.6
- #2 0x00007ffff6ef3a5d in _gnu_cxx:: verbose terminate_handler() () from /usr/lib64/libstdc++.so.6
- #3 0x00007ffff6ef1be6 in ?? () from /usr/lib64/libstdc++.so.6
- #4 0x00007ffff6ef1c13 in std::terminate() () from /usr/lib64/libstdc++.so.6
- #5 0x00007ffff6ef1d0e in __cxa_throw () from /usr/lib64/libstdc++.so.6

#6 0x00007ffff7ae19ad in GPars::read (this=0x7ffffffdae0, filename="/home/hfm/deil/scratch/software/cta/gcc/install//syspfiles/ctbin.par") at GPars.cpp:899

#7 0x00007ffff7ae2cad in GPars::load (this=0x7ffffffdae0, filename="ctbin.par", args=std::vector of length 1, capacity 1 = {...}) at GPars.cpp:440

#8 0x00007ffff7adafb2 in GApplication::GApplication (this=0x7fffffffda78, name=<value optimized out>, version=<value optimized out>, argc=1, argv=<value optimized out>) at GApplication.cpp:117

#9 0x000000000404050 in ctbin::ctbin (this=0x7ffffffda70, argc=1, argv=0x7ffffffdd78) at ctbin.cpp:95

#10 0x00000000040392b in main (argc=<value optimized out>, argv=<value optimized out>) at main.cpp:50

I don't know why ctbin can't get a lock on the file. The file exists and I can read and write it just fine. Does the backtrace help figuring out why a core dump occurs?

#2 - 10/11/2012 02:00 PM - Knödlseder Jürgen

This is indeed strange. I also have a Scientific Linux 6 installed in our virtual test box, and there it works perfectly. The detailed information of our system is:

SL 6.2 Python 2.6.5 gcc 4.4.4 kernel 2.6.32-71.el6.x86_64 cfitsio 3.240

The locking of the parfiles is a very specific action, that I introduced to allow parallel processing of ctools. Otherwise it could happen that two instances of an executable try to write at the same time to the same file. I had this problem when I was running many jobs in parallel.

I think that the file locking operations are not 100%, so I was indeed looking for cases where they do not work. However, it is weird that this happens on SL which is a quite standard system, and the same type of system that I test here.

I have to think a little more about this. Eventually, I'll send you a modified GPars.cpp file so that we get some more diagnostics.

I think that the core dump comes from the fact that an exception was thrown, so I'm not really surprised about this.

#3 - 10/11/2012 02:10 PM - Deil Christoph

Jürgen Knödlseder wrote:

I think that the file locking operations are not 100%, so I was indeed looking for cases where they do not work. However, it is weird that this happens on SL which is a quite standard system, and the same type of system that I test here.

We updated to SL 6.3 last week. But it could also be our file system setup or ...

I think that the core dump comes from the fact that an exception was thrown, so I'm not really surprised about this.

Sorry, I thin we've discussed this before, but I don't remember.

As far as I know every Linux problem should always have a top-level catch and never core dump, except maybe on developer machines?

#4 - 10/11/2012 03:09 PM - Deil Christoph

Jürgen Knödlseder wrote:

The locking of the parfiles is a very specific action, that I introduced to allow parallel processing of ctools. Otherwise it could happen that two instances of an executable try to write at the same time to the same file. I had this problem when I was running many jobs in parallel.

I think that the file locking operations are not 100%, so I was indeed looking for cases where they do not work. However, it is weird that this happens on SL which is a quite standard system, and the same type of system that I test here.

Our sys admin commented that the disk I was using is an old Lustre file system, which does not support file locking. This is the same system that I plan to use in the future running 100+ parallel ctools jobs.

The ftools / chandra / Fermi software must have a different mechanism for avoiding problems of multiple jobs trying to access the same pfile. I don't remember ever seing this locking problem, I did have a problem about /dev/tty when running parallel ftcopy, there the solution was to set this in the submitted scripts:

export HEADASNOQUERY=1

#5 - 10/11/2012 03:43 PM - Knödlseder Jürgen

- Status changed from New to In Progress
- Assigned To set to Knödlseder Jürgen
- % Done changed from 0 to 10

In fact, the Fermi software does not avoid the problem. What I do to circumvent the problem is setting PFILES to a local working directory, hence each job has it's own par file. Using centralized parameter files, I get the same concurrent file access problem as with GammaLib without file locking.

Note that you need a large number of jobs to run into this problem, as the file access is very short. I think it is at least of the order of a hundred jobs, maybe even more ...

I added the feature request #550 to check for file locking in the configuration step, and only enable file locking if the system also supports it.

#6 - 10/11/2012 10:05 PM - Knödlseder Jürgen

- Status changed from In Progress to Feedback
- % Done changed from 10 to 100

The check for file locking success has been disabled, so the problem should be fixed now.

#7 - 02/07/2014 08:17 AM - Knödlseder Jürgen

- Status changed from Feedback to Closed