

artdaq - Bug #20642

RoutingMaster crash on shutdown (terminate)

08/20/2018 10:29 AM - Ron Rechenmacher

Status:	Closed	Start date:	08/20/2018
Priority:	Normal	Due date:	
Assignee:	Ron Rechenmacher	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:	artdaq v3_04_00	Co-Assignees:	Eric Flumerfelt
Experiment:	-		

Description

With the latest pdune SW, I'm seeing back-traces like:

```
Core was generated by `RoutingMasterMain -c id: 5275 commanderPluginType: xmlrpc application_name: Rou'.
```

```
Program terminated with signal SIGSEGV, Segmentation fault.
```

```
#0 0x00007fd291b3b4e2 in _int_malloc () from /lib64/libc.so.6
```

```
[Current thread is 1 (Thread 0x7fd2974d9f80 (LWP 18791))]
```

```
(gdb) bt
```

```
#0 0x00007fd291b3b4e2 in _int_malloc () from /lib64/libc.so.6
```

```
#1 0x00007fd291b3e10c in malloc () from /lib64/libc.so.6
```

```
#2 0x00007fd29731f111 in _dl_signal_error () from /lib64/ld-linux-x86-64.so.2
```

```
#3 0x00007fd29731f2ae in _dl_signal_cerror () from /lib64/ld-linux-x86-64.so.2
```

```
#4 0x00007fd29731a4bd in _dl_lookup_symbol_x () from /lib64/ld-linux-x86-64.so.2
```

```
#5 0x00007fd291bf1ced in call_dl_lookup () from /lib64/libc.so.6
```

```
#6 0x00007fd29731f314 in _dl_catch_error () from /lib64/ld-linux-x86-64.so.2
```

```
#7 0x00007fd291bf1ff0 in do_sym () from /lib64/libc.so.6
```

```
#8 0x00007fd2908ad0d4 in dlsym_doit () from /lib64/libdl.so.2
```

```
#9 0x00007fd29731f314 in _dl_catch_error () from /lib64/ld-linux-x86-64.so.2
```

```
#10 0x00007fd2908ad5bd in dlerror_run () from /lib64/libdl.so.2
```

```
#11 0x00007fd2908ad128 in dlsym () from /lib64/libdl.so.2
```

```
#12 0x00007fd2947a36e5 in TROOT::InitInterpreter() () from /mu2e/ups/root/v6_12_04e/Linux64bit+3.10-2.17-e15-prof/lib/libCore.so
```

```
#13 0x00007fd2947a3a3d in TROOT::Internal::GetROOT2() () from /mu2e/ups/root/v6_12_04e/Linux64bit+3.10-2.17-e15-prof/lib/libCore.so
```

```
#14 0x00007fd29480766f in TEnv::GetValue(char const*) const () from /mu2e/ups/root/v6_12_04e/Linux64bit+3.10-2.17-e15-prof/lib/libCore.so
```

```
#15 0x00007fd294807a03 in TEnv::GetValue(char const*, char const*) const () from /mu2e/ups/root/v6_12_04e/Linux64bit+3.10-2.17-e15-prof/lib/libCore.so
```

```
#16 0x00007fd294808900 in DefaultErrorHandler(int, bool, char const*, char const*) () from /mu2e/ups/root/v6_12_04e/Linux64bit+3.10-2.17-e15-prof/lib/libCore.so
```

```
#17 0x00007fd29480847c in ErrorHandler () from /mu2e/ups/root/v6_12_04e/Linux64bit+3.10-2.17-e15-prof/lib/libCore.so
```

```
#18 0x00007fd294808654 in Break(char const*, char const*, ...) () from /mu2e/ups/root/v6_12_04e/Linux64bit+3.10-2.17-e15-prof/lib/libCore.so
```

```
#19 0x00007fd2948aa065 in TUnixSystem::DispatchSignals(ESignals) () from /mu2e/ups/root/v6_12_04e/Linux64bit+3.10-2.17-e15-prof/lib/libCore.so
```

```
#20 <signal handler called>
```

```
#21 0x00007fd291af69cd in __run_exit_handlers () from /lib64/libc.so.6
```

```
#22 0x00007fd291af6ab5 in exit () from /lib64/libc.so.6
```

```
#23 0x00007fd00dd40539 in xmlrpc_c::(anonymous namespace)::sigterm (signalClass=0xf) at server_abyss.cpp:41
```

```
#24 <signal handler called>
```

```
#25 0x00007fd291b7d1ad in nanosleep () from /lib64/libc.so.6
```

```
#26 0x00007fd291badec4 in usleep () from /lib64/libc.so.6
```

```
#27 0x00007fd00ccc09c0 in xmlrpc_millisecond_sleep (milliseconds=<optimized out>) at sleep.c:21
```

```
#28 0x00007fd00d2ff808 in waitForConnectionFreed (outstandingConnListP=0x2388b30) at server.c:1034
```

```
#29 waitForNoConnections (outstandingConnListP=<optimized out>) at server.c:1046
```

```
#30 serverRun2 (errorP=0x7ffd33c82338, serverP=0x2388c10) at server.c:1253
```

```
#31 ServerRun (serverP=serverP@entry=0x2388c10) at server.c:1280
```

```
#32 0x00007fd00dd403f8 in xmlrpc_c::setupSignalsAndRunAbyss (abyssServerP=0x2388c10) at server_abyss.cpp:760
```

```

#33 0x00007fd00dd41219 in xmlrpc_c::serverAbyss_impl::run (this=<optimized out>) at server_abyss.c
pp:771
#34 0x00007fd00dd416bd in xmlrpc_c::serverAbyss::run (this=<optimized out>) at server_abyss.cpp:87
3
#35 0x00007fd00df6c20b in artdaq::xmlrpc_commander::run_server (this=0x23848f0) at /home/ron/work/
artdaqPrj/demo25-kurt2/srcs/artdaq/artdaq/ExternalComms/xmlrpc_commander.cc:1133
#36 0x000000000041518d in main (argc=<optimized out>, argv=<optimized out>) at /home/ron/work/artd
aqPrj/demo25-kurt2/srcs/artdaq_mpich_plugin/artdaq-mpich-plugin/Application/RouterMasterMain.cc:6
5
(gdb) info threads
  Id   Target Id         Frame
* 1    Thread 0x7fd2974d9f80 (LWP 18791) 0x00007fd291b3b4e2 in _int_malloc () from /lib64/libc.so.
6
  2    Thread 0x7fcdfe496700 (LWP 22466) 0x00007fd291bc3eec in __lll_lock_wait_private () from /li
b64/libc.so.6
(gdb) thread 2
[Switching to thread 2 (Thread 0x7fcdfe496700 (LWP 22466))]
#0 0x00007fd291bc3eec in __lll_lock_wait_private () from /lib64/libc.so.6
(gdb) bt
#0 0x00007fd291bc3eec in __lll_lock_wait_private () from /lib64/libc.so.6
#1 0x00007fd291b40a6f in _L_lock_5333 () from /lib64/libc.so.6
#2 0x00007fd291b3a408 in _int_free () from /lib64/libc.so.6
#3 0x00007fd2929b7319 in __gnu_cxx::new_allocator<std::__detail::_Hash_node<std::pair<fhicl::Para
meterSetID const, fhicl::ParameterSet>, true>>::deallocate (this=0x7fd292c4f8d0 <fhicl::Parameter
SetRegistry::instance_()::s_registry+16>,
  __p=<optimized out>) at /scratch/workspace/build-gallery/SLF7/prof/build/gcc/v6_4_0/Linux64bit
+3.10-2.17/include/c++/6.4.0/ext/new_allocator.h:110
#4 std::allocator_traits<std::allocator<std::__detail::_Hash_node<std::pair<fhicl::ParameterSetID
const, fhicl::ParameterSet>, true>>>::deallocate (__n=0x1, __p=<optimized out>, __a=...)
  at /scratch/workspace/build-gallery/SLF7/prof/build/gcc/v6_4_0/Linux64bit+3.10-2.17/include/c+
+6.4.0/bits/alloc_traits.h:462
#5 std::__detail::_Hashtable_alloc<std::allocator<std::__detail::_Hash_node<std::pair<fhicl::Para
meterSetID const, fhicl::ParameterSet>, true>>>::M_deallocate_node (
  this=0x7fd292c4f8d0 <fhicl::ParameterSetRegistry::instance_()::s_registry+16>, __n=0x2331c00)
  at /scratch/workspace/build-gallery/SLF7/prof/build/gcc/v6_4_0/Linux64bit+3.10-2.17/include/c++/6.
4.0/bits/hashtable_policy.h:1973
#6 std::__detail::_Hashtable_alloc<std::allocator<std::__detail::_Hash_node<std::pair<fhicl::Para
meterSetID const, fhicl::ParameterSet>, true>>>::M_deallocate_nodes (
  this=0x7fd292c4f8d0 <fhicl::ParameterSetRegistry::instance_()::s_registry+16>, __n=<optimized
out>) at /scratch/workspace/build-gallery/SLF7/prof/build/gcc/v6_4_0/Linux64bit+3.10-2.17/include/
c++/6.4.0/bits/hashtable_policy.h:1984
#7 std::_Hashtable<fhicl::ParameterSetID, std::pair<fhicl::ParameterSetID const, fhicl::Parameter
Set>, std::allocator<std::pair<fhicl::ParameterSetID const, fhicl::ParameterSet>>, std::__detail:
:_Select1st, std::equal_to<fhicl::ParameterSetID>, fhicl::detail::HashParameterSetID, std::__detai
l::_Mod_range_hashing, std::__detail::_Default_ranged_hash, std::__detail::_Prime_rehash_policy, s
td::__detail::_Hashtable_traits<true, false, true>>::clear (
  this=0x7fd292c4f8d0 <fhicl::ParameterSetRegistry::instance_()::s_registry+16>) at /scratch/wor
kspace/build-gallery/SLF7/prof/build/gcc/v6_4_0/Linux64bit+3.10-2.17/include/c++/6.4.0/bits/hashta
ble.h:1901
#8 std::_Hashtable<fhicl::ParameterSetID, std::pair<fhicl::ParameterSetID const, fhicl::Parameter
Set>, std::allocator<std::pair<fhicl::ParameterSetID const, fhicl::ParameterSet>>, std::__detail:
:_Select1st, std::equal_to<fhicl::ParameterSetID>, fhicl::detail::HashParameterSetID, std::__detai
l::_Mod_range_hashing, std::__detail::_Default_ranged_hash, std::__detail::_Prime_rehash_policy, s
td::__detail::_Hashtable_traits<true, false, true>>::~~Hashtable (
  this=0x7fd292c4f8d0 <fhicl::ParameterSetRegistry::instance_()::s_registry+16>, __in_chrg=<opti
mized out>) at /scratch/workspace/build-gallery/SLF7/prof/build/gcc/v6_4_0/Linux64bit+3.10-2.17/in
clude/c++/6.4.0/bits/hashtable.h:1227
#9 std::unordered_map<fhicl::ParameterSetID, fhicl::ParameterSet, fhicl::detail::HashParameterSet
ID, std::equal_to<fhicl::ParameterSetID>, std::allocator<std::pair<fhicl::ParameterSetID const, fh
icl::ParameterSet>>>::~~unordered_map (
  this=0x7fd292c4f8d0 <fhicl::ParameterSetRegistry::instance_()::s_registry+16>, __in_chrg=<opti
mized out>) at /scratch/workspace/build-gallery/SLF7/prof/build/gcc/v6_4_0/Linux64bit+3.10-2.17/in
clude/c++/6.4.0/bits/unordered_map.h:98
#10 fhicl::ParameterSetRegistry::~ParameterSetRegistry (this=0x7fd292c4f8c0 <fhicl::ParameterSe
tRegistry::instance_()::s_registry>, __in_chrg=<optimized out>)
  at /scratch/workspace/build-gallery/SLF7/prof/build/fhiclcpp/v4_06_05/src/fhiclcpp/ParameterSe
tRegistry.cc:50

```

```
#11 0x00007fd291af6a69 in __run_exit_handlers () from /lib64/libc.so.6
#12 0x00007fd291af6ab5 in exit () from /lib64/libc.so.6
#13 0x00007fd00dd40539 in xmlrpc_c::(anonymous namespace)::sigterm (signalClass=0xf) at server_aby
ss.cpp:41
#14 <signal handler called>
#15 0x00007fd291b7d1ad in nanosleep () from /lib64/libc.so.6
#16 0x00007fd291badec4 in usleep () from /lib64/libc.so.6
#17 0x00007fd294f6938f in artdaq::StatisticsCollection::run (this=0x7fd295223600 <artdaq::Statisti
csCollection::getInstance()::singletonInstance>)
    at /home/ron/work/artdaqPrj/demo25-kurt2/srcs/artdaq_core/artdaq-core/Core/StatisticsCollectio
n.cc:75
#18 0x00007fd29641391d in boost::(anonymous namespace)::thread_proxy (param=<optimized out>) at li
bs/thread/src/pthread/thread.cpp:171
#19 0x00007fd293ca7e25 in start_thread () from /lib64/libpthread.so.0
#20 0x00007fd291bb634d in clone () from /lib64/libc.so.6
(gdb)
```

History

#1 - 10/09/2018 12:41 PM - Eric Flumerfelt

This may have been due to the StatisticsCollection thread not being properly shutdown at terminate. See [artdaq/feature/routing_shutdown_stats](#).

#2 - 02/18/2019 12:31 PM - Eric Flumerfelt

- Assignee set to *Ron Rechenmacher*
- Status changed from *New* to *Resolved*
- Co-Assignees *Eric Flumerfelt* added

#3 - 02/18/2019 12:31 PM - Eric Flumerfelt

- Status changed from *Resolved* to *Reviewed*

#4 - 03/06/2019 11:33 AM - Eric Flumerfelt

- Target version set to *artdaq v3_04_00*
- Status changed from *Reviewed* to *Closed*