

# halld\_recon aborting on DResourcePool static variable deletion

This issue concerns the abrupt termination of halld\_recon with jana2 at the end of the execution when the command `hd_dump ../../hd_rawdata_121120_000.evio -Pjana:nevents=5 -DDBCALDigiHit` was run.

## Context:

In the file `~/src/libraries/ANALYSIS/ANALYSIS_init.cc:54`, the constructor of class `DHistogramAction_ObjectMemory` is called explicitly; thus, creating an object of this class. This class is defined in `~/src/libraries/ANALYSIS/DHistogramActions_Independent.h` and contains several `DResourcePool<DType*>` variables.

- `DResourcePool` Class:
- The `DResourcePool` template class is defined in `~/src/libraries/include/DResourcePool.h`.
- The class contains a static vector member, `vector<DType*> dResourcePool_Shared`, that behaves exactly like a global variable and is deleted when the main program ends.

## Problem Description:

When the program tries to delete the first static variable (`vector<DKinFitConstraint_Spacetime*> dResourcePool_Shared`) belonging to `DResourcePool<DKinFitConstraint_Spacetime> dResourcePool_SpacetimeConstraint`, the program encounters errors such as `malloc_consolidate(): invalid chunk size` or `malloc_consolidate(): unaligned fastbin chunk detected`. These errors result in the program abruptly aborting.

## Resolution:

The solution involves commenting out the `delete app` command located on line 78 within `~/src/programs/Analysis/hd_dump/hd_dump.cc:main`. This adjustment successfully resolved the issue, suggesting that the problem might be related to the `delete app` command interfering with the deletion of certain variables.

## Possible causes:

*Redundant Deletion:* The static variables, `vector<DType*> dResourcePool_Shared`, may have been deleted earlier when the `delete app` command is executed and when the program is attempting to delete the same variables again it is causing the program to abort since the variables were already deleted by the `delete app` command earlier. By commenting out the `delete app` command, the program avoids deleting the variables prematurely



← → rasool [SSH: ifarm9]

PROBLEMS DEBUG CONSOLE TERMINAL PORTS GITLENS

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```
$29 = <optimized out>
(gdb) list
247 //delete the resources
248 if(dDebugLevel > 0)
249     cout << "DESTRUCTOR DELETING " << typeid(DType).name() << ": " << locResources.size() << endl;
250 for(auto locResource : locResources)
251     delete locResource;
252 dObjectCounter -= locResources.size(); //I sure hope this is zero!
253 if(dDebugLevel > 0)
254     cout << "All objects (ought) to be destroyed, theoretical # remaining: " << dObjectCounter;
255 }
256
(gdb) step
std::vector<DKinFitResults*, std::allocator<DKinFitResults*> >::size (this=0x7ffffd6973a90) at /usr/include/c++/11/bits/stl_vector.h:919
919 { return size_type(this->_M_impl._M_finish - this->_M_impl._M_start); }
(gdb) finish
Run till exit from #0 std::vector<DKinFitResults*, std::allocator<DKinFitResults*> >::size (this=0x7ffffd6973a90) at /usr/include/c++/11/bits/stl_vector.h:919
0x00000000019bb0d4 in DResourcePool<DKinFitResults>::~DResourcePool (this=0x55e2178, __in_chrg=<optimized out>) at libraries/include/DResourcePool.h:252
252 dObjectCounter -= locResources.size(); //I sure hope this is zero!
Value returned is $30 = 0
(gdb) step
std::__atomic_base<unsigned long>::operator-= (this=0x3576510 <DResourcePool<DKinFitResults>::dObjectCounter>, __i=0) at /usr/include/c++/11/bits/atomic_base.h:409
409 { return __atomic_sub_fetch(&_M_i, __i, int(memory_order_seq_cst)); }
(gdb) finish
Run till exit from #0 std::__atomic_base<unsigned long>::operator-= (this=0x3576510 <DResourcePool<DKinFitResults>::dObjectCounter>, __i=0) at /usr/include/c++/11/bits/atomic_base.h:409
DResourcePool<DKinFitResults>::~DResourcePool (this=0x55e2178, __in_chrg=<optimized out>) at libraries/include/DResourcePool.h:253
253 if(dDebugLevel > 0)
Value returned is $31 = 0
(gdb) step
255 }
(gdb) step
std::vector<DKinFitResults*, std::allocator<DKinFitResults*> >::~vector (this=0x7ffffd6973a90, __in_chrg=<optimized out>) at /usr/include/c++/11/bits/stl_vector.h:681
681 _M_get_Tp_allocator());
(gdb) finish
Run till exit from #0 std::vector<DKinFitResults*, std::allocator<DKinFitResults*> >::~vector (this=0x7ffffd6973a90, __in_chrg=<optimized out>) at /usr/include/c++/11/bits/stl_vector.h:681
0x00000000019bb13a in DResourcePool<DKinFitResults>::~DResourcePool (this=0x55e2178, __in_chrg=<optimized out>) at libraries/include/DResourcePool.h:255
255 }
(gdb) finish
Run till exit from #0 0x00000000019bb13a in DResourcePool<DKinFitResults>::~DResourcePool (this=0x55e2178, __in_chrg=<optimized out>) at libraries/include/DResourcePool.h:255
0x0000000001a4021b in DAnalysisResults_factory::~DAnalysisResults_factory (this=0x55e1fa0, __in_chrg=<optimized out>) at libraries/ANALYSIS/DAnalysisResults_factory.h:48
48 ~DAnalysisResults_factory(void){delete dSourceComboer;}
(gdb) step
std::map<std::tuple<DAnalysis::DParticleCombo const*, DAnalysis::DKinFitType, bool, std::set<unsigned long, std::less<unsigned long>, std::allocator<unsigned long> > >, DAnalysis::DParticleCombo const*, std::less<std::tuple<DAnalysis::DParticleCombo const*, DAnalysis::DKinFitType, bool, std::set<unsigned long, std::less<unsigned long>, std::allocator<unsigned long> > >, std::allocator<std::pair<std::tuple<DAnalysis::DParticleCombo const*, DAnalysis::DKinFitType, bool, std::set<unsigned long, std::less<unsigned long>, std::allocator<unsigned long> > > const, DAnalysis::DParticleCombo const*> > >::~map (this=0x55e2148, __in_chrg=<optimized out>) at /usr/include/c++/11/bits/stl_map.h:302
302 ~map() = default;
(gdb) finish
Run till exit from #0 std::map<std::tuple<DAnalysis::DParticleCombo const*, DAnalysis::DKinFitType, bool, std::set<unsigned long, std::less<unsigned long>, std::allocator<unsigned long> > >, DAnalysis::DParticleCombo const*, std::less<std::tuple<DAnalysis::DParticleCombo const*, DAnalysis::DKinFitType, bool, std::set<unsigned long, std::less<unsigned long>, std::allocator<unsigned long> > >, std::allocator<std::pair<std::tuple<DAnalysis::DParticleCombo const*, DAnalysis::DKinFitType, bool, std::set<unsigned long, std::less<unsigned long>, std::allocator<unsigned long> > > const, DAnalysis::DParticleCombo const*> > >::~map (this=0x55e2148, __in_chrg=<optimized out>) at /usr/include/c++/11/bits/stl_map.h:302
0x0000000001a4022d in DAnalysisResults_factory::~DAnalysisResults_factory (this=0x55e1fa0, __in_chrg=<optimized out>) at libraries/ANALYSIS/DAnalysisResults_factory.h:48
48 ~DAnalysisResults_factory(void){delete dSourceComboer;}
(gdb) step
std::map<std::pair<std::set<std::shared_ptr<DKinFitConstraint>, std::less<std::shared_ptr<DKinFitConstraint> >, std::allocator<std::shared_ptr<DKinFitConstraint> > >, bool>, DKinFitResults*, std::less<std::pair<std::set<std::shared_ptr<DKinFitConstraint>, std::less<std::shared_ptr<DKinFitConstraint> >, std::allocator<std::shared_ptr<DKinFitConstraint> > >, bool> >, std::allocator<std::pair<std::pair<std::set<std::shared_ptr<DKinFitConstraint>, std::less<std::shared_ptr<DKinFitConstraint> >, std::allocator<std::shared_ptr<DKinFitConstraint> > >, bool> const, DKinFitResults*> > >::~map (this=0x55e2118, __in_chrg=<optimized out>) at /usr/include/c++/11/bits/stl_map.h:302
302 ~map() = default;
(gdb) finish
Run till exit from #0 std::map<std::pair<std::set<std::shared_ptr<DKinFitConstraint>, std::less<std::shared_ptr<DKinFitConstraint> >, std::allocator<std::shared_ptr<DKinFitConstraint> > >, bool>, DKinFitResults*, std::less<std::pair<std::set<std::shared_ptr<DKinFitConstraint>, std::less<std::shared_ptr<DKinFitConstraint> >, std::allocator<std::shared_ptr<DKinFitConstraint> > >, bool> >, std::allocator<std::pair<std::pair<std::set<std::shared_ptr<DKinFitConstraint>, std::less<std::shared_ptr<DKinFitConstraint> >, std::allocator<std::shared_ptr<DKinFitConstraint> > >, bool> const, DKinFitResults*> > >::~map (this=0x55e2118, __in_chrg=<optimized out>
```

SSH: ifarm9 gluex\_port\_latest 0 0 0 0 pmatjlab, 7 years ago Ln 255, Col 2 Tab Size: 4 UTF-8 LF C++

```

(gdb) step
std::map<std::pair<std::set<std::shared_ptr<DKinFitConstraint>, std::less<std::shared_ptr<DKinFitConstraint> >, std::allocator<std::shared_ptr<DKinFitConstraint> > >, bool>, DKinFitResults*, std::less<std::pair<std::set<std::shared_ptr<DKinFitConstraint>, std::less<std::shared_ptr<DKinFitConstraint> >, std::allocator<std::shared_ptr<DKinFitConstraint> > >, bool> >, bool> >, std::allocator<std::pair<std::pair<std::set<std::shared_ptr<DKinFitConstraint>, std::less<std::shared_ptr<DKinFitConstraint> >, std::allocator<std::shared_ptr<DKinFitConstraint> > >, bool> const, DKinFitResults*> > >::~map (this=0x55e2118, __in_chrg=<optimized out>) at /usr/include/c++/11/bits/stl_map.h:302
302 ~map() = default;
(gdb) finish
Run till exit from #0  std::map<std::pair<std::set<std::shared_ptr<DKinFitConstraint>, std::less<std::shared_ptr<DKinFitConstraint> >, std::allocator<std::shared_ptr<DKinFitConstraint> > >, bool>, DKinFitResults*, std::less<std::pair<std::set<std::shared_ptr<DKinFitConstraint>, std::less<std::shared_ptr<DKinFitConstraint> >, std::allocator<std::shared_ptr<DKinFitConstraint> > >, bool> >, std::allocator<std::pair<std::pair<std::set<std::shared_ptr<DKinFitConstraint>, std::less<std::shared_ptr<DKinFitConstraint> >, std::allocator<std::shared_ptr<DKinFitConstraint> > >, bool> const, DKinFitResults*> > >::~map (this=0x55e2118, __in_chrg=<optimized out>) at /usr/include/c++/11/bits/stl_map.h:302
0x000000001a4023f in DAnalysisResults_factory::~DAnalysisResults_factory (this=0x55e1fa0, __in_chrg=<optimized out>) at libraries/ANALYSIS/DAnalysisResults_factory.h:48
48 ~DAnalysisResults_factory(void){delete dSourceComboer;}
(gdb) step
std::shared_ptr<JLockService>::~shared_ptr (this=0x55e20d0, __in_chrg=<optimized out>) at /usr/include/c++/11/bits/shared_ptr.h:122
122 class shared_ptr : public __shared_ptr<Tp>
(gdb) finish
Run till exit from #0  std::shared_ptr<JLockService>::~shared_ptr (this=0x55e20d0, __in_chrg=<optimized out>) at /usr/include/c++/11/bits/shared_ptr.h:122
0x000000001a40251 in DAnalysisResults_factory::~DAnalysisResults_factory (this=0x55e1fa0, __in_chrg=<optimized out>) at libraries/ANALYSIS/DAnalysisResults_factory.h:48
48 ~DAnalysisResults_factory(void){delete dSourceComboer;}
(gdb) step
JFactoryT<DAnalysisResults>::~JFactoryT (this=0x55e1fa0, __in_chrg=<optimized out>) at /work/epsci/rasool/gluex_jana2_2023/JANA2/include/JANA/JFactoryT.h:60
60 ~JFactoryT() override = default;
(gdb) finish
Run till exit from #0  JFactoryT<DAnalysisResults>::~JFactoryT (this=0x55e1fa0, __in_chrg=<optimized out>) at /work/epsci/rasool/gluex_jana2_2023/JANA2/include/JANA/JFactoryT.h:60
0x000000001a4025d in DAnalysisResults_factory::~DAnalysisResults_factory (this=0x55e1fa0, __in_chrg=<optimized out>) at libraries/ANALYSIS/DAnalysisResults_factory.h:48
48 ~DAnalysisResults_factory(void){delete dSourceComboer;}
(gdb) step
std::_Rb_tree_iterator<std::pair<std::pair<std::type_index, std::__cxx11::basic_string<char, std::char_traits<char>, std::allocator<char> > > const, JFactory* > >::operator++ (
  this=0x7ffffd6973b48) at /usr/include/c++/11/bits/stl_tree.h:287
287 _M_node = _Rb_tree_increment(_M_node);
(gdb) finish
Run till exit from #0  std::_Rb_tree_iterator<std::pair<std::pair<std::type_index, std::__cxx11::basic_string<char, std::char_traits<char>, std::allocator<char> > > const, JFactory* > >::operator++ (this=0x7ffffd6973b48) at /usr/include/c++/11/bits/stl_tree.h:287
0x00007ffff5454c45 in JFactorySet::~JFactorySet (this=0x50c71e0, __in_chrg=<optimized out>) at /w/epsci-sciwork18/rasool/gluex_jana2_2023/JANA2/src/libraries/JANA/JFactorySet.cc:63
63 for (auto& f : mFactories) delete f.second;
Value returned is $32 = {first = {first = {_M_target = 0x354bca0 <typeinfo for DBCALTruthShower>, second = ""}, second = 0x50d5e60}
(gdb) finish
Run till exit from #0  0x00007ffff5454c45 in JFactorySet::~JFactorySet (this=0x50c71e0, __in_chrg=<optimized out>)
  at /w/epsci-sciwork18/rasool/gluex_jana2_2023/JANA2/src/libraries/JANA/JFactorySet.cc:63
0x00007ffff5454d30 in JFactorySet::~JFactorySet (this=0x50c71e0, __in_chrg=<optimized out>) at /w/epsci-sciwork18/rasool/gluex_jana2_2023/JANA2/src/libraries/JANA/JFactorySet.cc:69
69 }
(gdb) finish
Run till exit from #0  0x00007ffff5454d30 in JFactorySet::~JFactorySet (this=0x50c71e0, __in_chrg=<optimized out>)
  at /w/epsci-sciwork18/rasool/gluex_jana2_2023/JANA2/src/libraries/JANA/JFactorySet.cc:69
JEvent::~JEvent (this=0x50c6fc0, __in_chrg=<optimized out>) at /w/epsci-sciwork18/rasool/gluex_jana2_2023/JANA2/src/libraries/JANA/JEvent.h:51
51 }
(gdb) step
std::map<std::__cxx11::basic_string<char, std::char_traits<char>, std::allocator<char> >, std::__cxx11::basic_string<char, std::char_traits<char>, std::allocator<char> >, std::less<std::__cxx11::basic_string<char, std::char_traits<char>, std::allocator<char> > >, std::allocator<std::pair<std::__cxx11::basic_string<char, std::char_traits<char>, std::allocator<char> > const, std::__cxx11::basic_string<char, std::char_traits<char>, std::allocator<char> > > > > >::~map (this=0x50c7100, __in_chrg=<optimized out>) at /usr/include/c++/11/bits/stl_map.h:302
302 ~map() = default;
(gdb) finish
Run till exit from #0  std::map<std::__cxx11::basic_string<char, std::char_traits<char>, std::allocator<char> >, std::__cxx11::basic_string<char, std::char_traits<char>, std::allocator<char> >, std::less<std::__cxx11::basic_string<char, std::char_traits<char>, std::allocator<char> > >, std::allocator<std::pair<std::__cxx11::basic_string<char, std::char_traits<char>, std::allocator<char> > const, std::__cxx11::basic_string<char, std::char_traits<char>, std::allocator<char> > > > >::~map (this=0x50c7100, __in_chrg=<optimized out>) at /usr/include/c++/11/bits/stl_map.h:302
0x00007ffff54335c6 in JEvent::~JEvent (this=0x50c6fc0, __in_chrg=<optimized out>) at /w/epsci-sciwork18/rasool/gluex_jana2_2023/JANA2/src/libraries/JANA/JEvent.h:51
51 }
(gdb) finish
Run till exit from #0  0x00007ffff54335c6 in JEvent::~JEvent (this=0x50c6fc0, __in_chrg=<optimized out>) at /w/epsci-sciwork18/rasool/gluex_jana2_2023/JANA2/src/libraries/JANA/JEvent.h:51
__gnu_cxx::new_allocator<JEvent>::destroy<JEvent> (this=0x50c6fc0, __p=0x50c6fc0) at /usr/include/c++/11/ext/new_allocator.h:168
168 { __p->~Up(); }
(gdb) step
std::allocator_traits<std::allocator<JEvent> >::destroy<JEvent> (__a=..., __p=0x50c6fc0) at /usr/include/c++/11/bits/alloc_traits.h:539

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← → rasool [SSH: ifarm9]

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51      }
(gdb) finish
Run till exit from #0  0x00007ffff54335c6 in JEvent::~JEvent (this=0x50c6fc0, __in_chrg=<optimized out>) at /w/epsci-sciwork18/rasool/gluex_jana2_2023/JANA2/src/libraries/JANA/JEvent.h:51
__gnu_cxx::new_allocator<JEvent>::~destroy<JEvent> (this=0x50c6fc0, __p=0x50c6fc0) at /usr/include/c++/11/ext/new_allocator.h:168
168      { __p->~Up(); }
(gdb) step
std::allocator_traits<std::allocator<JEvent> >::destroy<JEvent> (__a=..., __p=0x50c6fc0) at /usr/include/c++/11/bits/alloc_traits.h:539
539      }
(gdb) finish
Run till exit from #0  std::allocator_traits<std::allocator<JEvent> >::destroy<JEvent> (__a=..., __p=0x50c6fc0) at /usr/include/c++/11/bits/alloc_traits.h:539
std::_Sp_counted_ptr_inplace<JEvent, std::allocator<JEvent>, (__gnu_cxx::Lock_policy)2>::~M_dispose (this=0x50c6fb0) at /usr/include/c++/11/bits/shared_ptr_base.h:529
529      }
(gdb) finish
Run till exit from #0  std::_Sp_counted_ptr_inplace<JEvent, std::allocator<JEvent>, (__gnu_cxx::Lock_policy)2>::~M_dispose (this=0x50c6fb0) at /usr/include/c++/11/bits/shared_ptr_base.h:529
std::_Sp_counted_base<(__gnu_cxx::Lock_policy)2>::~M_release (this=0x50c6fb0) at /usr/include/c++/11/bits/shared_ptr_base.h:180
180      if (__gnu_cxx::__exchange_and_add_dispatch(&_M_weak_count,
(gdb) finish
Run till exit from #0  std::_Sp_counted_base<(__gnu_cxx::Lock_policy)2>::~M_release (this=0x50c6fb0) at /usr/include/c++/11/bits/shared_ptr_base.h:180
std::_shared_count<(__gnu_cxx::Lock_policy)2>::~~shared_count (this=0x7fffc0d288f0, __in_chrg=<optimized out>) at /usr/include/c++/11/bits/shared_ptr_base.h:706
706      }
(gdb) finish
Run till exit from #0  std::_shared_count<(__gnu_cxx::Lock_policy)2>::~~shared_count (this=0x7fffc0d288f0, __in_chrg=<optimized out>) at /usr/include/c++/11/bits/shared_ptr_base.h:706
0x00000000195e65e in std::_shared_ptr<JEvent const, (__gnu_cxx::Lock_policy)2>::~~shared_ptr (this=0x7fffc0d288e8, __in_chrg=<optimized out>)
  at /usr/include/c++/11/bits/shared_ptr_base.h:1154
1154      ~shared_ptr() = default;
(gdb) finish
Run till exit from #0  0x00000000195e65e in std::_shared_ptr<JEvent const, (__gnu_cxx::Lock_policy)2>::~~shared_ptr (this=0x7fffc0d288e8, __in_chrg=<optimized out>)
  at /usr/include/c++/11/bits/shared_ptr_base.h:1154
0x00000000195e67a in std::shared_ptr<JEvent const>::~~shared_ptr (this=0x7fffc0d288e8, __in_chrg=<optimized out>) at /usr/include/c++/11/bits/shared_ptr.h:122
122      class shared_ptr : public __shared_ptr<Tp>
(gdb) finish
Run till exit from #0  0x00000000195e67a in std::shared_ptr<JEvent const>::~~shared_ptr (this=0x7fffc0d288e8, __in_chrg=<optimized out>) at /usr/include/c++/11/bits/shared_ptr.h:122
0x000000002a26760 in DParsedEvent::DFactoryPointers::~DFactoryPointers (this=0x7fffc0d288e8, __in_chrg=<optimized out>) at libraries/DAQ/DParsedEvent.h:226
226      ~DFactoryPointers(){}
(gdb) finish
Run till exit from #0  0x000000002a26760 in DParsedEvent::DFactoryPointers::~DFactoryPointers (this=0x7fffc0d288e8, __in_chrg=<optimized out>) at libraries/DAQ/DParsedEvent.h:226
0x000000002a40b08 in std::pair<JEvent const*, DParsedEvent::DFactoryPointers>::~pair (this=0x7fffc0d288e0, __in_chrg=<optimized out>) at /usr/include/c++/11/bits/stl_pair.h:211
211      struct pair
(gdb) finish
Run till exit from #0  0x000000002a40b08 in std::pair<JEvent const*, DParsedEvent::DFactoryPointers>::~pair (this=0x7fffc0d288e0, __in_chrg=<optimized out>)
  at /usr/include/c++/11/bits/stl_pair.h:211
__gnu_cxx::new_allocator<std::_Rb_tree_node<std::pair<JEvent const*, DParsedEvent::DFactoryPointers> > >::destroy<std::pair<JEvent const*, DParsedEvent::DFactoryPointers> > (
  this=0x7fffc002590, __p=0x7fffc0d288e0) at /usr/include/c++/11/ext/new_allocator.h:168
168      { __p->~Up(); }
(gdb) finish
Run till exit from #0  __gnu_cxx::new_allocator<std::_Rb_tree_node<std::pair<JEvent const*, DParsedEvent::DFactoryPointers> > >::destroy<std::pair<JEvent const*, DParsedEvent::DFactoryPointers> > (this=0x7fffc002590, __p=0x7fffc0d288e0) at /usr/include/c++/11/ext/new_allocator.h:168
std::allocator_traits<std::allocator<std::_Rb_tree_node<std::pair<JEvent const*, DParsedEvent::DFactoryPointers> > > >::destroy<std::pair<JEvent const*, DParsedEvent::DFactoryPointers> > (__a=..., __p=0x7fffc0d288e0) at /usr/include/c++/11/bits/alloc_traits.h:539
539      }
(gdb) finish
Run till exit from #0  std::allocator_traits<std::allocator<std::_Rb_tree_node<std::pair<JEvent const*, DParsedEvent::DFactoryPointers> > > >::destroy<std::pair<JEvent const*, DParsedEvent::DFactoryPointers> > (__a=..., __p=0x7fffc0d288e0) at /usr/include/c++/11/bits/alloc_traits.h:539
std::_Rb_tree<JEvent const*, std::pair<JEvent const*, DParsedEvent::DFactoryPointers>, std::_Select1st<std::pair<JEvent const*, DParsedEvent::DFactoryPointers>, std::less<JEvent const*>, std::allocator<std::pair<JEvent const*, DParsedEvent::DFactoryPointers> > >::M_destroy_node (this=0x7fffc002590, __p=0x7fffc0d288c0)
  at /usr/include/c++/11/bits/stl_tree.h:626
626      }
(gdb) finish
Run till exit from #0  std::_Rb_tree<JEvent const*, std::pair<JEvent const*, DParsedEvent::DFactoryPointers>, std::_Select1st<std::pair<JEvent const*, DParsedEvent::DFactoryPointers>, std::less<JEvent const*>, std::allocator<std::pair<JEvent const*, DParsedEvent::DFactoryPointers> > >::M_destroy_node (this=0x7fffc002590, __p=0x7fffc0d288c0)
  at /usr/include/c++/11/bits/stl_tree.h:626
std::_Rb_tree<JEvent const*, std::pair<JEvent const*, DParsedEvent::DFactoryPointers>, std::_Select1st<std::pair<JEvent const*, DParsedEvent::DFactoryPointers>, std::less<JEvent const*>, std::allocator<std::pair<JEvent const*, DParsedEvent::DFactoryPointers> > >::M_drop_node (this=0x7fffc0d288c0) at /usr/include/c++/11/bits/stl_tree.h:632
```

SSH: ifarm9 gluex\_port\_latest 0 0 0 0

pmattjlab, 7 years ago Ln 255, Col 2 Tab Size: 4 UTF-8 LF C++

Terminal window showing GDB output for a C++ program. The output includes stack traces and function calls such as `_M_drop_node`, `_M_erase`, `~Rb_tree`, `~map`, `DParsedEvent::~DParsedEvent`, and `JEventSource_EVI0pp::Dispatcher`. The program is running on a remote host via SSH.

```
at /usr/include/c++/11/bits/stl_tree.h:626
std::_Rb_tree<JEvent const*, std::pair<JEvent const* const, DParsedEvent::DFactoryPointers>, std::_Select1st<std::pair<JEvent const* const, DParsedEvent::DFactoryPointers> >, std::less<JEvent const*>, std::allocator<std::pair<JEvent const* const, DParsedEvent::DFactoryPointers> > >::_M_drop_node (this=0x7ffffc002590, __p=0x7fff
fc0d288c0) at /usr/include/c++/11/bits/stl_tree.h:632
632     _M_put_node(__p);
(gdb) finish
Run till exit from #0  std::_Rb_tree<JEvent const*, std::pair<JEvent const* const, DParsedEvent::DFactoryPointers>, std::_Select1st<std::pair<JEvent const* const, DParsedEvent::DFactoryPointers> >, std::less<JEvent const*>, std::allocator<std::pair<JEvent const* const, DParsedEvent::DFactoryPointers> > >::_M_drop_node (this=0x
7ffffc002590, __p=0x7ffffc0d288c0)
at /usr/include/c++/11/bits/stl_tree.h:632
std::_Rb_tree<JEvent const*, std::pair<JEvent const* const, DParsedEvent::DFactoryPointers>, std::_Select1st<std::pair<JEvent const* const, DParsedEvent::DFactoryPointers> >, std::less<JEvent const*>, std::allocator<std::pair<JEvent const* const, DParsedEvent::DFactoryPointers> > >::_M_erase (this=0x7ffffc002590, __x=0x7ffffc0d
288c0) at /usr/include/c++/11/bits/stl_tree.h:1892
1892     __x = __y;
(gdb) finish
Run till exit from #0  std::_Rb_tree<JEvent const*, std::pair<JEvent const* const, DParsedEvent::DFactoryPointers>, std::_Select1st<std::pair<JEvent const* const, DParsedEvent::DFactoryPointers> >, std::less<JEvent const*>, std::allocator<std::pair<JEvent const* const, DParsedEvent::DFactoryPointers> > >::_M_erase (this=0x7fff
cc002590, __x=0x7ffffc0d288c0)
at /usr/include/c++/11/bits/stl_tree.h:1892
std::_Rb_tree<JEvent const*, std::pair<JEvent const* const, DParsedEvent::DFactoryPointers>, std::_Select1st<std::pair<JEvent const* const, DParsedEvent::DFactoryPointers> >, std::less<JEvent const*>, std::allocator<std::pair<JEvent const* const, DParsedEvent::DFactoryPointers> > >::~~Rb_tree (this=0x7ffffc002590, __in_chrg=<opt
imized out>)
at /usr/include/c++/11/bits/stl_tree.h:984
984     { _M_erase(_M_begin()); }
(gdb) finish
Run till exit from #0  std::_Rb_tree<JEvent const*, std::pair<JEvent const* const, DParsedEvent::DFactoryPointers>, std::_Select1st<std::pair<JEvent const* const, DParsedEvent::DFactoryPointers> >, std::less<JEvent const*>, std::allocator<std::pair<JEvent const* const, DParsedEvent::DFactoryPointers> > >::~~Rb_tree (this=0x7fff
fcc002590, __in_chrg=<optimized out>)
at /usr/include/c++/11/bits/stl_tree.h:984
0x000000002a60d92 in std::map<JEvent const*, DParsedEvent::DFactoryPointers, std::less<JEvent const*>, std::allocator<std::pair<JEvent const* const, DParsedEvent::DFactoryPointers> > >::~~map
(this=0x7ffffc002590, __in_chrg=<optimized out>) at /usr/include/c++/11/bits/stl_map.h:302
302     ~map() = default;
(gdb) finish
Run till exit from #0  0x000000002a60d92 in std::map<JEvent const*, DParsedEvent::DFactoryPointers, std::less<JEvent const*>, std::allocator<std::pair<JEvent const* const, DParsedEvent::DFactoryPointers> > >::~~map (this=0x7ffffc002590, __in_chrg=<optimized out>) at /usr/include/c++/11/bits/stl_map.h:302
0x000000002a613cc in DParsedEvent::~~DParsedEvent (this=0x7ffffc001dd0, __in_chrg=<optimized out>) at libraries/DAQ/DParsedEvent.h:365
365     }
(gdb) finish
Run till exit from #0  0x000000002a613cc in DParsedEvent::~~DParsedEvent (this=0x7ffffc001dd0, __in_chrg=<optimized out>) at libraries/DAQ/DParsedEvent.h:365
0x000000002a61972 in DParsedEvent::~~DParsedEvent (this=0x7ffffc001dd0, __in_chrg=<optimized out>) at libraries/DAQ/DParsedEvent.h:365
365     }
(gdb) finish
Run till exit from #0  0x000000002a61972 in DParsedEvent::~~DParsedEvent (this=0x7ffffc001dd0, __in_chrg=<optimized out>) at libraries/DAQ/DParsedEvent.h:365
0x000000002a4a9d6 in DEVIOWorkerThread::~~DEVIOWorkerThread (this=0x50bca00, __in_chrg=<optimized out>) at libraries/DAQ/DEVIOWorkerThread.cc:86
86     for(auto pe : parsed_event_pool) delete pe;
(gdb) finish
Run till exit from #0  0x000000002a4a9d6 in DEVIOWorkerThread::~~DEVIOWorkerThread (this=0x50bca00, __in_chrg=<optimized out>) at libraries/DAQ/DEVIOWorkerThread.cc:86
0x000000002a4aa58 in DEVIOWorkerThread::~~DEVIOWorkerThread (this=0x50bca00, __in_chrg=<optimized out>) at libraries/DAQ/DEVIOWorkerThread.cc:87
87     }
(gdb) finish
Run till exit from #0  0x000000002a4aa58 in DEVIOWorkerThread::~~DEVIOWorkerThread (this=0x50bca00, __in_chrg=<optimized out>) at libraries/DAQ/DEVIOWorkerThread.cc:87
JEventSource_EVI0pp::Dispatcher (this=0x4e2e4b0) at libraries/DAQ/JEventSource_EVI0pp.cc:507
507     for( auto w : worker_threads ){
(gdb) finish
Run till exit from #0  JEventSource_EVI0pp::Dispatcher (this=0x4e2e4b0) at libraries/DAQ/JEventSource_EVI0pp.cc:507
0x000000002a45755 in std::__invoke_impl<void, void (JEventSource_EVI0pp::*), JEventSource_EVI0pp*> (
__f=@0x50b7f90: (void (JEventSource_EVI0pp::*)(JEventSource_EVI0pp * const)) 0x2a2235a <JEventSource_EVI0pp::Dispatcher()>, __t=@0x50b7f88: 0x4e2e4b0)
at /usr/include/c++/11/bits/invoke.h:74
74     return ((*std::forward<Tp>(__t)).*_f)(std::forward<Args>(__args)...);
(gdb) finish
Run till exit from #0  0x000000002a45755 in std::__invoke_impl<void, void (JEventSource_EVI0pp::*), JEventSource_EVI0pp*> (
__f=@0x50b7f90: (void (JEventSource_EVI0pp::*)(JEventSource_EVI0pp * const)) 0x2a2235a <JEventSource_EVI0pp::Dispatcher()>, __t=@0x50b7f88: 0x4e2e4b0)
at /usr/include/c++/11/bits/invoke.h:74
std::__invoke<void (JEventSource_EVI0pp::*), JEventSource_EVI0pp*> (
__fn=@0x50b7f90: (void (JEventSource_EVI0pp::*)(JEventSource_EVI0pp * const)) 0x2a2235a <JEventSource_EVI0pp::Dispatcher()>) at /usr/include/c++/11/bits/invoke.h:97
97     std::forward<Args>(__args)...);
(gdb) finish
```

← → rasool [SSH: ifarm9]

PROBLEMS DEBUG CONSOLE TERMINAL PORTS GITLENS

gdb +

```
74     return ((*std::forward<Tp>(__t)).*_f)(std::forward<Args>(__args)...);
(gdb) finish
Run till exit from #0  0x000000002a45755 in std::__invoke_impl<void, void (JEventSource_EVI0pp::*), JEventSource_EVI0pp*> (
  __f=@0x50b7f90: (void (JEventSource_EVI0pp::*)(JEventSource_EVI0pp * const)) 0x2a2235a <JEventSource_EVI0pp::Dispatcher()>, __t=@0x50b7f88: 0x4e2e4b0)
  at /usr/include/c++/11/bits/invoke.h:74
std::__invoke<void (JEventSource_EVI0pp::*), JEventSource_EVI0pp*> (
  __fn=@0x50b7f90: (void (JEventSource_EVI0pp::*)(JEventSource_EVI0pp * const)) 0x2a2235a <JEventSource_EVI0pp::Dispatcher()> at /usr/include/c++/11/bits/invoke.h:97
97     std::forward<Args>(__args)...);
(gdb) finish
Run till exit from #0  std::__invoke<void (JEventSource_EVI0pp::*), JEventSource_EVI0pp*> (
  __fn=@0x50b7f90: (void (JEventSource_EVI0pp::*)(JEventSource_EVI0pp * const)) 0x2a2235a <JEventSource_EVI0pp::Dispatcher()> at /usr/include/c++/11/bits/invoke.h:97
std::thread::_Invoker<std::tuple<void (JEventSource_EVI0pp::*), JEventSource_EVI0pp*> >::_M_invoke<0ul, 1ul> (this=0x50b7f88) at /usr/include/c++/11/bits/std_thread.h:259
259     { return std::__invoke(std::get<_Ind>(std::move(_M_t)...)); }
(gdb) finish
Run till exit from #0  std::thread::_Invoker<std::tuple<void (JEventSource_EVI0pp::*), JEventSource_EVI0pp*> >::_M_invoke<0ul, 1ul> (this=0x50b7f88)
  at /usr/include/c++/11/bits/std_thread.h:259
std::thread::_Invoker<std::tuple<void (JEventSource_EVI0pp::*), JEventSource_EVI0pp*> >::operator() (this=0x50b7f88) at /usr/include/c++/11/bits/std_thread.h:266
266     return _M_invoke(_Indices());
(gdb) finish
Run till exit from #0  std::thread::_Invoker<std::tuple<void (JEventSource_EVI0pp::*), JEventSource_EVI0pp*> >::operator() (this=0x50b7f88) at /usr/include/c++/11/bits/std_thread.h:266
std::thread::_State_impl<std::thread::_Invoker<std::tuple<void (JEventSource_EVI0pp::*), JEventSource_EVI0pp*> > >::_M_run (this=0x50b7f80) at /usr/include/c++/11/bits/std_thread.h:211
211     _M_run() { _M_func(); }
(gdb) finish
Run till exit from #0  std::thread::_State_impl<std::thread::_Invoker<std::tuple<void (JEventSource_EVI0pp::*), JEventSource_EVI0pp*> > >::_M_run (this=0x50b7f80)
  at /usr/include/c++/11/bits/std_thread.h:211
0x00007ffff48db924 in execute_native_thread_routine () from /lib64/libstdc++.so.6
(gdb) finish
Run till exit from #0  0x00007ffff48db924 in execute_native_thread_routine () from /lib64/libstdc++.so.6
0x00007ffff449f802 in start_thread () from /lib64/libc.so.6
(gdb) finish
Run till exit from #0  0x00007ffff449f802 in start_thread () from /lib64/libc.so.6
[Thread 0x7ffffd697b640 (LWP 3016029) exited]

EVI0 Processing rate = 0 Hz
NDISPATCHER_STALLED = 3769 ( 0.5%)
NPARSER_STALLED = 7205 ( 0.5%)
NEVENTBUFF_STALLED = 0 ( 0.0%)

EVI0 Statistics for hd_rawdata_121120_000.evio :
-----
Nblocks: 2
Nevents: 8
Nerrors: 0
Nbad_blocks: 0
Nbad_events: 0

[Thread 0x7ffffd5178640 (LWP 3016132) exited]
malloc_consolidate(): unaligned fastbin chunk detected

Thread 1 "hd_dump" received signal SIGABRT, Aborted.
[Switching to Thread 0x7ffff13f6440 (LWP 3015967)]
0x00007ffff44a154c in __pthread_kill_implementation () from /lib64/libc.so.6
(gdb) bt
#0  0x00007ffff44a154c in __pthread_kill_implementation () from /lib64/libc.so.6
#1  0x00007ffff4454d06 in raise () from /lib64/libc.so.6
#2  0x00007ffff44287f3 in abort () from /lib64/libc.so.6
#3  0x00007ffff4429130 in __libc_message.cold () from /lib64/libc.so.6
#4  0x00007ffff44ab617 in malloc_printerr () from /lib64/libc.so.6
#5  0x00007ffff44ac32c in malloc_consolidate () from /lib64/libc.so.6
#6  0x00007ffff44ad330 in _int_free () from /lib64/libc.so.6
```

SSH: ifarm9 gluex\_port\_latest 0 0 0 0

pmattjlab, 7 years ago Ln 255, Col 2 Tab Size: 4 UTF-8 LF C++

