

cet-is - Bug #20488

DUNE jobs on some off-site worker nodes are terminated with exit status 4 (SIGILL)

07/30/2018 05:05 PM - Vito Di Benedetto

Status:	Rejected	Start date:	07/30/2018
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:		Spent time:	0.00 hour
Scope:	Internal	SSI Package:	
Experiment:	-	Co-Assignees:	

Description

Running DUNE (and uBooNE) jobs off-site I get a some of those jobs terminated with exit status 4 (SIGILL)

Details of the code I run are:

```
dunetpc: v06_84_00 with qualifier "debug:e15"  
art: v2_11_02
```

command:

```
lar --rethrow-all -c prodgenie_nue_dune10kt_1x2x6.fcl -n 1 -o prodgenie_nue_dune10kt_1x2x6_pass_0.  
root
```

gdb backtrace is the following:

```
Reading symbols from lar...done.
```

```
[Thread debugging using libthread_db enabled]
```

```
Using host libthread_db library "/lib64/libthread_db.so.1".
```

```
Program received signal SIGILL, Illegal instruction.
```

```
hep::concurrency::getTSCP (cpuidx=@0x7fffffe2954: 0)
```

```
at /scratch/workspace/art-release-build/SLF6/debug/build/hep_concurrency/v1_00_02/src/hep_conc  
urrency/tsan.cc:28
```

```
#0 hep::concurrency::getTSCP (cpuidx=@0x7fffffe2954: 0)
```

```
at /scratch/workspace/art-release-build/SLF6/debug/build/hep_concurrency/v1_00_02/src/hep_conc  
urrency/tsan.cc:28
```

```
#1 0x00002aaaab4b7806b in hep::concurrency::RecursiveMutex::lock (  
this=0x2aaaab4a41e0 , opName=...)
```

```
at /scratch/workspace/art-release-build/SLF6/debug/build/hep_concurrency/v1_00_02/src/hep_conc  
urrency/RecursiveMutex.cc:72
```

```
#2 0x00002aaaab4b79d40 in hep::concurrency::RecursiveMutexSentry::RecursiveMutexSentry (this=0x7ff  
ffffe2a60, mutex=..., name=...)
```

```
at /scratch/workspace/art-release-build/SLF6/debug/build/hep_concurrency/v1_00_02/src/hep_conc  
urrency/RecursiveMutex.cc:283
```

```
#3 0x00002aaaab23548a in mf::(anonymous namespace)::logMessage (  
msg=0x6150960)
```

```
at /scratch/workspace/art-release-build/SLF6/debug/build/messagefacility/v2_02_02/src/messagef  
acility/MessageLogger/MessageLogger.cc:438
```

```
#4 0x00002aaaab23582f in mf::LogErrorObj (msg=0x6150960)
```

```
at /scratch/workspace/art-release-build/SLF6/debug/build/messagefacility/v2_02_02/src/messagef  
acility/MessageLogger/MessageLogger.cc:547
```

```
#5 0x00002aaaaaed6d0b in mf::MaybeLogger_<(mf::ELseverityLevel::ELsev_)3, false>::~MaybeLogger_ (  
this=0x7fffffe4da8, __in_chrg=)
```

```
at /scratch/workspace/art-release-build/SLF6/debug/build/messagefacility/v2_02_02/include/mess  
agefacility/MessageLogger/MessageLogger.h:129
```

```
#6 0x00002aaaaaed2e41 in art::run_art_common_ (main_pset=...)
```

```
at /scratch/workspace/art-release-build/SLF6/debug/build/art/v2_11_02/src/art/Framework/Art/ru
```

```

n_art.cc:287
#7 0x00002aaaaaed215d in art::run_art (argc=8, argv=0x7fffffff5888,
    in_desc=..., lookupPolicy=..., handlers=...)
    at /scratch/workspace/art-release-build/SLF6/debug/build/art/v2_11_02/src/art/Framework/Art/ru
n_art.cc:206
#8 0x00002aaaae117 in artapp (argc=8, argv=0x7fffffff5888)
    at /scratch/workspace/art-release-build/SLF6/debug/build/art/v2_11_02/build-Linux64bit+2.6-2.1
2-e15-debug/art/Framework/Art/artapp.cc:51
#9 0x000000000401628 in main (argc=8, argv=0x7fffffff5888)
    at /scratch/workspace/art-release-build/SLF6/debug/build/art/v2_11_02/build-Linux64bit+2.6-2.1
2-e15-debug/art/Framework/Art/lar.cc:9
A debugging session is active.

    Inferior 1 [process 84628] will be killed.

```

Jobs terminated this way are running on worker node with the following CPU info from /proc/cpuinfo

```

processor      : 0
vendor_id     : AuthenticAMD
cpu family    : 21
model         : 1
model name    : AMD Opteron(tm) Processor 6282 SE
stepping      : 2
cpu MHz       : 2599.948
cache size    : 2048 KB
physical id   : 0
siblings      : 16
core id       : 0
cpu cores     : 16
apicid        : 0
initial apicid : 0
fpu           : yes
fpu_exception : yes
cpuid level   : 13
wp            : yes
flags         : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush mmx
    fxsr sse sse2 ht syscall nx mmxext fxsr_opt lm rep_good extd_apicid unfair_spinlock pni pclmulqdq
    ssse3 cx16 sse4_1 sse4_2 popcnt aes xsave avx hypervisor lahf_lm cmp_legacy cr8_legacy abm sse4a
    misalignsse 3dnowprefetch osvw xop fma4
bogomips     : 5199.89
TLB size     : 1536 4K pages
clflush size  : 64
cache_alignm  : 64
address sizes : 42 bits physical, 48 bits virtual
power management:

```

```

processor      : 0
vendor_id     : GenuineIntel
cpu family    : 6
model         : 46
model name    : Intel(R) Xeon(R) CPU X7560 @ 2.27GHz
stepping      : 6
microcode     : 4294967295
cpu MHz       : 2260.949
cache size    : 24576 KB
physical id   : 0
siblings      : 16
core id       : 0
cpu cores     : 16
apicid        : 0
initial apicid : 0
fpu           : yes
fpu_exception : yes
cpuid level   : 11
wp            : yes
flags         : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush mmx

```

```
fxsr sse sse2 ss ht syscall nx lm constant_tsc rep_good unfair_spinlock pni ssse3 cx16 sse4_1 sse
4_2 popcnt hypervisor lahf_lm
bogomips      : 4521.89
clflush size  : 64
cache_alignment : 64
address sizes : 42 bits physical, 48 bits virtual
power management:
```

```
processor      : 0
vendor_id     : GenuineIntel
cpu family    : 6
model         : 62
model name    : Intel(R) Xeon(R) CPU E5-2660 v2 @ 2.20GHz
stepping      : 4
microcode    : 4294967295
cpu MHz       : 2199.980
cache size    : 25600 KB
physical id   : 0
siblings      : 20
core id       : 0
cpu cores     : 20
apicid        : 0
initial apicid : 0
fpu           : yes
fpu_exception : yes
cpuid level   : 13
wp            : yes
```

```
flags          : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush mmx
fxsr sse sse2 ss ht syscall nx lm constant_tsc rep_good unfair_spinlock pni pclmulqdq ssse3 cx16
pcid sse4_1 sse4_2 popcnt aes xsave avx f16c rdrand hypervisor lahf_lm xsaveopt fgsgbase smep erms
bogomips      : 4399.96
clflush size  : 64
cache_alignment : 64
address sizes : 42 bits physical, 48 bits virtual
power management:
```

```
processor      : 0
vendor_id     : GenuineIntel
cpu family    : 6
model         : 44
model name    : Intel(R) Xeon(R) CPU X5650 @ 2.67GHz
stepping      : 2
microcode    : 4294967295
cpu MHz       : 2659.976
cache size    : 12288 KB
physical id   : 0
siblings      : 12
core id       : 0
cpu cores     : 12
apicid        : 0
initial apicid : 0
fpu           : yes
fpu_exception : yes
cpuid level   : 11
wp            : yes
```

```
flags          : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush mmx
fxsr sse sse2 ss ht syscall nx lm constant_tsc rep_good unfair_spinlock pni pclmulqdq ssse3 cx16
pcid sse4_1 sse4_2 popcnt aes hypervisor lahf_lm
bogomips      : 5319.95
clflush size  : 64
cache_alignment : 64
address sizes : 40 bits physical, 48 bits virtual
power management:
```

Is this a known issue?

Related issues:

History

#1 - 08/02/2018 08:36 AM - Christopher Green

- *Is duplicate of Bug #20246: Illegal Instruction in hep_concurrency added*

#2 - 08/02/2018 08:39 AM - Christopher Green

- *Status changed from New to Rejected*

This is a duplicate of [#20246](#), which was resolved and the fix incorporated into release [2.11.03](#).