

artdaq - Bug #20479

High CPU usage in Boardreaders during the stop transition.

07/30/2018 12:17 PM - Gennadiy Lukhanin

Status:	Remission	Start date:	07/30/2018
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:		Co-Assignees:	
Experiment:	-		
Description			
Occasionally, the CPU usage spikes to 100% in Board readers after the "stop" transition began. gdb sows the following stack trace:			
<pre>(gdb) bt #0 0x00007f52b82bca3d in poll () from /lib64/libc.so.6 #1 0x00007f52b97ad88e in MPID_nem_tcp_connpoll (in_blocking_poll=<optimized out>) at /scratch/workspace/artdaq_demo-release-build/SLF7/e15-prof/build/mpich/v3_2_1b/source/mpich-3.2.1/src/mpid/ch3/channels/nemesis/netmod/tcp/socksm.c:1819 #2 0x00007f52b979b2dc in MPID_nem_mpich_blocking_recv (completions=11, in_fbox=<synthetic pointer>, cell=0x7ffe024d08c0) at /scratch/workspace/artdaq_demo-release-build/SLF7/e15-prof/build/mpich/v3_2_1b/source/mpich-3.2.1/src/mpid/ch3/channels/nemesis/include/mpid_nem_inline.h:989 #3 MPIDI_CH3I_Progress (progress_state=progress_state@entry=0x7ffe024d091c, is_blocking=is_blocking@entry=1) at /scratch/workspace/artdaq_demo-release-build/SLF7/e15-prof/build/mpich/v3_2_1b/source/mpich-3.2.1/src/mpid/ch3/channels/nemesis/src/ch3_progress.c:506 #4 0x00007f52b9751abd in MPIDI_CH3U_VC_WaitForClose () at /scratch/workspace/artdaq_demo-release-build/SLF7/e15-prof/build/mpich/v3_2_1b/source/mpich-3.2.1/src/mpid/ch3/src/ch3u_handle_connection.c:383 #5 0x00007f52b978c027 in MPID_Finalize () at /scratch/workspace/artdaq_demo-release-build/SLF7/e15-prof/build/mpich/v3_2_1b/source/mpich-3.2.1/src/mpid/ch3/src/mpid_finalize.c:106 #6 0x00007f52b96dd946 in PMPI_Finalize () at /scratch/workspace/artdaq_demo-release-build/SLF7/e15-prof/build/mpich/v3_2_1b/source/mpich-3.2.1/src/mpi/init/finalize.c:237 #7 0x0000000000414992 in std::default_delete<artdaq::MPISentry>::operator() (this=<optimized out>, __ptr=0x242b5d0) at /mnt/sde/products/gcc/v6_4_0/Linux64bit+3.10-2.17/include/c++/6.4.0/bits/unique_ptr.h:76 #8 std::unique_ptr<artdaq::MPISentry, std::default_delete<artdaq::MPISentry>>::~~unique_ptr (this=<synthetic pointer>, __in_chrg=<optimized out>) at /mnt/sde/products/gcc/v6_4_0/Linux64bit+3.10-2.17/include/c++/6.4.0/bits/unique_ptr.h:239 #9 main (argc=<optimized out>, argv=<optimized out>) at /mnt/sde/mu2etrg/lukhanin-develop001/srcs/artdaq-utilities-mpich-plugin/artdaq-mpich-plugin/Application/BoardReaderMain.cc:23</pre>			

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Terminal - mu2etrg@mu2edaq11:/mnt/mdssd/lukhanin/data
File Edit View Terminal Tabs Help
initiali
AQINTERI
top - 12:01:54 up 11 days, 19:49, 26 users, load average: 8.75, 5.05, 4.23
Tasks: 802 total, 11 running, 783 sleeping, 4 stopped, 4 zombie
booting. %Cpu(s): 17.7 us, 1.3 sy, 0.0 ni, 81.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
KiB Mem : 32660764 total, 25160488 free, 4233644 used, 3266632 buff/cache
configur KiB Swap: 7812092 total, 2264832 free, 5547260 used, 27482120 avail Mem

Configur:
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
5525 mu2etrg 20 0 23.169g 79656 76536 R 100.0 0.2 9:22.65 BoardReaderMain
5528 mu2etrg 20 0 25.440g 5.230g 5.217g R 100.0 16.8 427:07.10 BoardReaderMain
5537 mu2etrg 20 0 25.440g 5.243g 5.225g R 100.0 16.8 430:46.19 BoardReaderMain
5540 mu2etrg 20 0 25.440g 5.244g 5.226g R 100.0 16.8 429:13.24 BoardReaderMain
5556 mu2etrg 20 0 22.835g 1.070g 1.068g R 100.0 3.4 715:55.47 EventBuilderMai
5534 mu2etrg 20 0 25.440g 5.228g 5.209g R 99.7 16.8 436:47.23 BoardReaderMain
5547 mu2etrg 20 0 25.440g 5.240g 5.222g R 99.7 16.8 429:10.41 BoardReaderMain
5555 mu2etrg 20 0 22.960g 1.071g 1.068g R 99.7 3.4 716:33.41 EventBuilderMai
23574 mu2etrg 20 0 17.613g 102540 1256 R 99.7 0.3 3900:14 art
5552 mu2etrg 20 0 25.440g 5.248g 5.231g R 99.3 16.8 423:45.29 BoardReaderMain
5560 mu2etrg 20 0 24.015g 790292 788304 S 5.0 2.4 216:40.22 DataLoggerMain
5561 mu2etrg 20 0 24.015g 788496 786536 S 5.0 2.4 217:31.90 DataLoggerMain
3012 mu2etrg 20 0 1031244 592508 141928 S 4.0 1.8 520:17.93 Xvnc
5562 mu2etrg 20 0 23.028g 676084 674384 S 3.3 2.1 145:22.69 DispatcherMain
31265 mu2etrg 20 0 1053704 6392 1952 S 1.7 0.0 120:10.33 python
454 root 39 19 0 0 0 S 1.0 0.0 198:26.78 kipmi0
4019 mu2etrg 20 0 360196 4352 2584 S 0.7 0.0 130:42.69 panel-17-cpugra
5531 mu2etrg 20 0 29.021g 2.019g 2.012g S 0.7 6.5 112:59.02 BoardReaderMain
5543 mu2etrg 20 0 29.023g 2.021g 2.012g S 0.7 6.5 136:25.77 BoardReaderMain
5550 mu2etrg 20 0 29.023g 2.022g 2.013g S 0.7 6.5 130:34.79 BoardReaderMain
20407 mu2etrg 20 0 152728 2436 1016 S 0.7 0.0 0:01.68 sshd
44770 mu2etrg 20 0 156480 2168 996 S 0.7 0.0 54:23.81 top
3253 mu2etrg 20 0 293728 7544 3104 S 0.3 0.0 31:02.34 xfwm4
5511 mu2etrg 20 0 37036 748 652 S 0.3 0.0 7:26.12 hydra_pmi_proxy
12997 mu2etrg 20 0 546132 16568 4104 S 0.3 0.1 6:54.22 xfce4-terminal
23471 mu2etrg 20 0 11.744g 28348 28004 S 0.3 0.1 7:09.86 art
33163 mu2etrg 20 0 156544 2968 1516 R 0.3 0.0 0:00.11 top
40389 mu2etrg 20 0 115304 1736 1000 S 0.3 0.0 11:06.85 bash
1 root 20 0 195700 2924 1456 S 0.0 0.0 3:53.43 systemd
2 root 20 0 0 0 0 S 0.0 0.0 0:01.70 kthreadd
3 root 20 0 0 0 0 S 0.0 0.0 0:12.09 ksoftirqd/0
5 root 0 -20 0 0 0 S 0.0 0.0 0:00.00 kworker/0:0H
8 root rt 0 0 0 S 0.0 0.0 0:03.19 migration/0

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History

#1 - 08/17/2018 02:22 PM - Kurt Biery

- Tracker changed from Support to Bug
- Status changed from New to Remission

Files

boardreaders.png	715 KB	07/30/2018	Gennadiy Lukhanin
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