

artdaq Utilities - Bug #20757

DAQInterface appears to leak file descriptors

09/06/2018 11:51 AM - John Freeman

Status:	Resolved	Start date:	09/06/2018
Priority:	Normal	Due date:	
Assignee:	John Freeman	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:		Spent time:	0.00 hour
Experiment:	-	Co-Assignees:	
Description			
From Eric: "DAQInterface appears to leak file descriptors (possibly handles to per-run log files?)...I did 297 runs in one instance, and it failed to boot after due to a "too many open files" error. "			

Associated revisions

Revision e05a76e4 - 09/15/2018 08:13 PM - John Freeman

JCF: The cut-and-pasted deepsuppression context manager I got from stackoverflow.com back in 2014 had a bug, in that it wasn't closing all file descriptors in *exit*. Whenever it was called by DAQInterface, it was leaking file descriptors, a problem observed by Eric in Issue #20757. This commit properly closes the file descriptors.

History

#1 - 09/06/2018 12:10 PM - John Freeman

- Assignee set to John Freeman

#2 - 09/07/2018 07:43 AM - Eric Flumerfelt

- File *daqinterface_Isf.log* added

- File *daqinterface_fds.log* added

I made another long-running instance, and there's a large number of PIPES, apparently between two threads within DAQInterface. I have captured the output of Isf into a log file, as well as the output of `ls -l /proc/<PID>/fd`.

#3 - 09/07/2018 03:51 PM - Eric Flumerfelt

After a bit more testing, it appears that the leak happens on Terminate-Boot cycles, not Stop-Start cycles.

#4 - 09/15/2018 08:19 PM - John Freeman

- Status changed from New to Resolved

- % Done changed from 0 to 100

Solved with commit e05a76e400de3ba1382f8424c9cf2f333179d717. I'll just quote the commit comments:

JCF: The cut-and-pasted deepsuppression context manager I got from stackoverflow.com back in 2014 had a bug, in that it wasn't closing all file descriptors in `deepsuppression.__exit__`. Whenever `deepsuppression()` was called by DAQInterface, it was leaking file descriptors, a problem observed by Eric in Issue [#20757](#). This commit properly closes the file descriptors.

Files

daqinterface_Isf.log	237 KB	09/07/2018	Eric Flumerfelt
daqinterface_fds.log	58.1 KB	09/07/2018	Eric Flumerfelt