

# Offline Monitoring Status

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# Offline Monitoring Status

- Run over all data taken every Friday
- Cron job processes new data as it comes in during the week
- Code is only updated on Fridays
- Run only over first 20 files for each run
- Launch on Friday night, finish all jobs by Sunday
- Newer runs start first
- Cron job may be missing a few runs - needs investigation

# Logs of Offline Monitoring

- Processed Runs 940 - 2281 this week (2760 total files)

- 37 files had some form of **major**

terminate called after throwing an instance of 'std::bad\_alloc'

- 137 files had “insufficient buffer size” error **major**

```
programs/Utilities/plugins/DAQ/JEventSource_EVIO.cc:984 ?evioException type = 0x40730001 text = evioFileChannel::read...read errorS_EVFILE_
TRUNC: event truncated, insufficient buffer space

evioException occurred in file src/libsrc++/evioFileChannel.cc, function read, line 164

Stack trace:
 /group/hallD/Software/builds/evio/evio-4.3.1/Linux-x86_64/lib/libevioxx.so(evio::getStackTrace()+0x43) [0x7fc9d3191db3]
 /group/hallD/Software/builds/evio/evio-4.3.1/Linux-x86_64/lib/libevioxx.so(evio::evioException::evioException(int, std::string const&, std:
:string const&, std::string const&, int)+0x68) [0x7fc9d3192678]
 /group/hallD/Software/builds/evio/evio-4.3.1/Linux-x86_64/lib/libevioxx.so(evio::evioFileChannel::read(unsigned int*, int)+0x1fb) [0x7fc9d3
19641b]
 /home/gxproj1/builds/sim-recon/sim-recon-commissioning/Linux_CentOS6-x86_64-gcc4.4.6/plugins/DAQ.so(JEventSource_EVIO::ReadEVIOWEvent(unsign
ed int*&) +0x17b) [0x7fc9d1ed7d6b]
 /home/gxproj1/builds/sim-recon/sim-recon-commissioning/Linux_CentOS6-x86_64-gcc4.4.6/plugins/DAQ.so(JEventSource_EVIO::GetEvent(jana::JEvent
t&)+0x1d8) [0x7fc9d1eda7f8]
 hd_root(jana::JEventSource::GetEvent(jana::JEvent&)+0xc4) [0xd21436]
 hd_root(jana::JApplication::ReadEvent(jana::JEvent&)+0x75) [0xce2f6b]
 hd_root(jana::JApplication::EventBufferThread()+0x30b) [0xce2de1]
 hd_root(LaunchEventBufferThread(void*)+0x20) [0xce2acf]
 /lib64/libpthread.so.0() [0x338a6077f1]
 /lib64/libc.so.6(LaunchEventBufferThread(void*)+0x6d) [0x3389ee5ccd]

JANA ERROR>>-- Event buffer truncated --
JANA ERROR>>---- this could be because the events are too large
JANA ERROR>>---- for the buffer provided (20000000 bytes)
JANA ERROR>>---- you can try giving a larger buffer size by setting
JANA ERROR>>---- the EVIO:BUFFER_SIZE configuration parameter by
JANA ERROR>>---- adding this argument to your command line:
JANA ERROR>>---- -PEVIO:BUFFER_SIZE=X (where X is in bytes)
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----- stderr 001204 001.err Top Ll (Fundamental)-----
```

# Logs of Offline Monitoring

- 76 files had major?

```
JANA ERROR>>Unknown module type (9) iptr=0x0x7fe31b2c8780  
JANA ERROR>>...skipping to 0x0x7fe31b2c878c (discarding 3 words)
```

- 4 files (1191\_000, 1428\_001, 1823\_000, 2052\_011) had

```
libraries/FDC/DFDCPpseudo_factory.cc:219 Too many hits in FDC (20680,  
max=20000)! Pseudopoint reconstruction in FDC bypassed for event 56783
```

- 1577 files had

```
libraries/PID/DParticleID.cc:443 s -81.8971 t 1.41324
```

- 55 files had

```
JANA ERROR>> didn't sleep full 0.5 seconds!  
=====
```

There was a crash.

This is the entire stack trace of all threads:

```
=====
```

# Looking Ahead

- Do we keep launching our weekly jobs?
  - Changes are only in software
  - Run over all data?
- Run a separate chain of jobs over the entire data?
  - 2-track skim would be a candidate
  - Calorimetry skim? fADC skim?
  - How frequently do we launch?
  - Over all runs, or just “useful” runs?