Batch Processing at FNAL

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Overall Status

- Our CPU quota was increased to 25 machines at a time
- MIPP software seems to run ok
  - Occasional crashes, much like at LLNL farm
- Presently, there is a bottleneck since all IO is going through head node
  - Will get fixed once worker nodes use dCache

Pass 1 processing

- 106 runs processed
  - 94 runs were called successful based on calib DB entries
  - 409 ROOT subrun files, 193GB
  - Typical “blow up” factor from raw file is ~1.5-1.7
  - Typical run time is ~30 mins/5k

Pass 2 processing

- Problem: typical blow up factor from pass 1 file is around 5
  - Large files could not be handled by worker nodes, majority of the jobs crashed
- Jobs were restarted, but only 243 subruns were processed because of IO
  - Run time is ~1sec/event