Status of OO Production at FNAL

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- Update of Status of OO Production at Fermilab

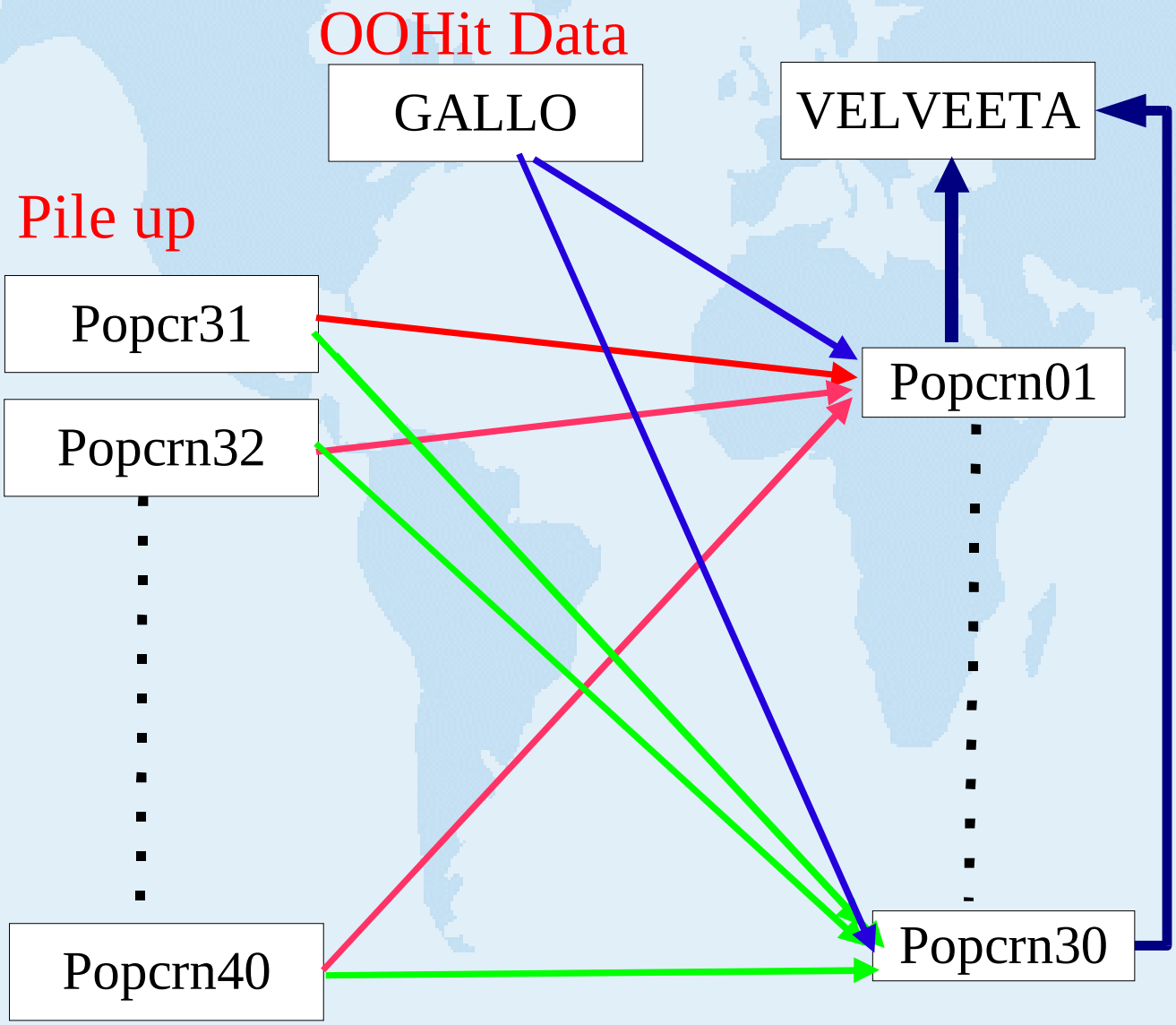
Status of OO Production at Fermilab

- Plenty of production data in enstore tape robot: http://home.fnal.gov/~cmsprod/monitor/report.html
- Data cards: http://home.fnal.gov/~cmsprod/Production.html
- Monitoring page http://computing.fnal.gov/cms/Monitor/farms.html

Status of OO Production(cont.)

- Production Hardware:
- 2 Dell Servers with 4 Pentium CPU's. GALLO is the IO node of the FARM and VELVEETA is the Objectivity Database host. Each has > 200 Gbyte raid attached.
- 40 dual CPU (popcrn01−popcrn40). For Digis production 10 are used as pile up server leaving the other 30 (60 CPU's) as worker nodes. Currently we have a sample of 500 000 minimum bias events.

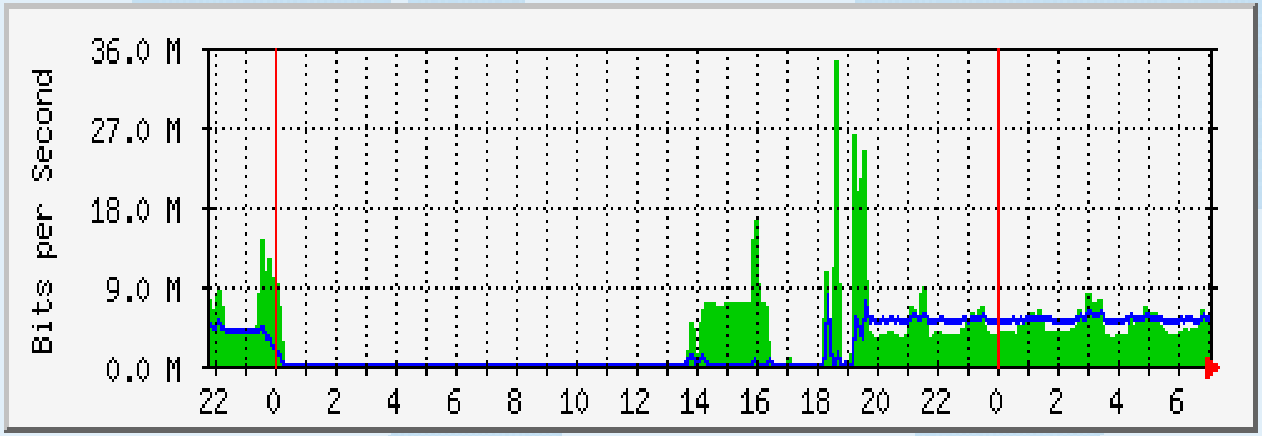
OODigis



AMS Servers on
popcrn31−popcrn40
(pile up servers)
GALLO (data server)
VELVEETA (DB host)

Every one talks to everyone

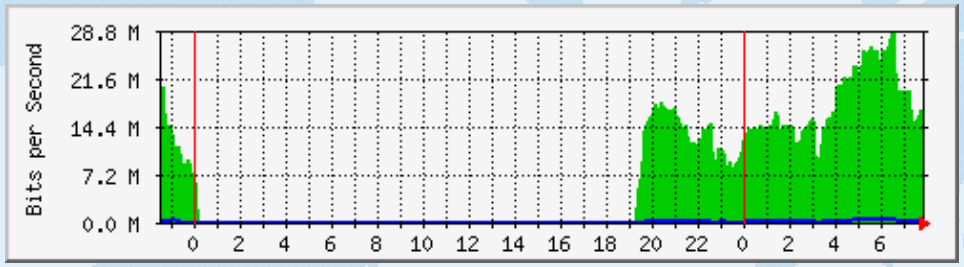
Network traffic in and out of the Data base host Velveeta



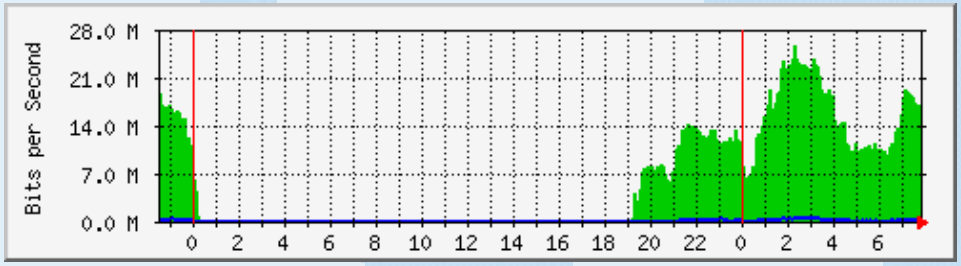
Green: serving OOHit data to worker nodes

Blue: receiving OODigis data from worker nodes

Network traffic out of the database server nodes



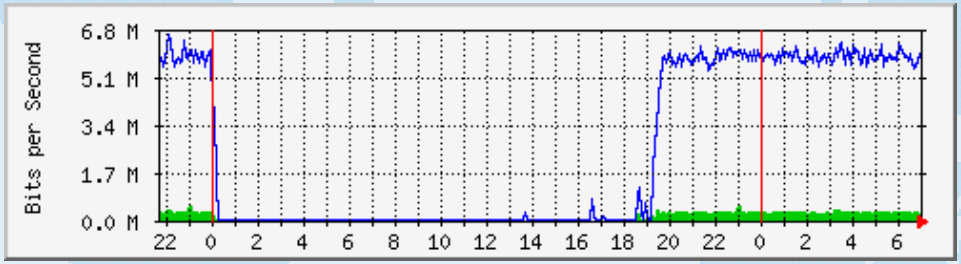
Popcrn40



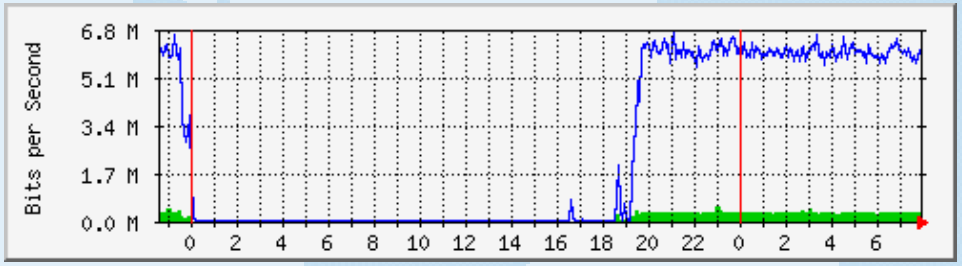
Popcrn39

Green: serving OOHit pile up data to worker nodes

Network traffic in and out of worker nodes



Popcrn2



Popcrn9

Green: writing OODigis data to Data base host (velveeta)

Blue: receiving pile up from pileup server nodes

Current Status

- Upgraded to ORCA 4_4_0
- Pile up sample of approximately 500K events. Oohit formatted and split over the 10 popcrn server nodes
- Running with more than 50 pocesses writing into the data base
- Created User federation to access set OO_FD_BOOT to cmsun1.fnal.gov::/usr/cmsun1/r4test/UserFederation/jet0900.boot
  At the moment contains only the hplus m400 sample with full pile up.

Current Status(cont.)

- Done hplus m400, hplus m200 (full pile up)
- Running: sm_qqh120_inv, Z' m120, single pion (full pile up) CPU used > 82% (prel.)
- We are in the process of importing fz files from CERN.
- We have tools in place to duplicate data bases, delete selected files et. (thanks to Shahzad Muzaffar)
- All scripts are in place to run production

To do

- Get into production mode
- CMS coordination of production effort
- Validate (run ntuple makers etc.)