

# FNAL Production Progress

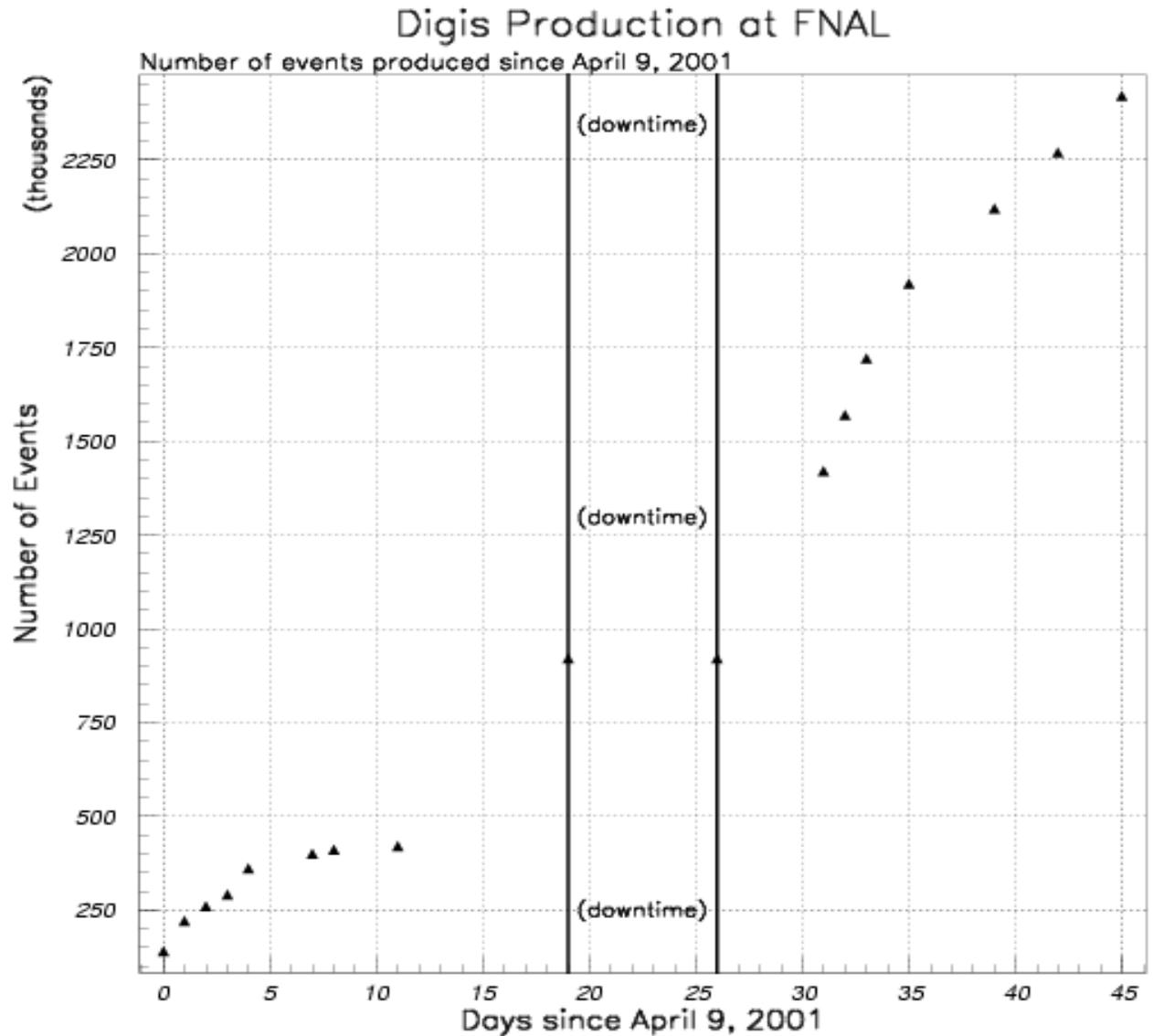
- Problems: RAID Array
  - Caused 4/8 weeks of downtime during April and May
  - Configuration issue: may have been problem with vendor documentation - so far no new failures.
- Problems: Database corruptions (Majority of following OK - please use and give feedback!)
  - Known corrupt metadata in jm\_w\_lj, single pion
  - Suspected corrupt metadata in jm\_hlt2030
  - May have been caused by botched oocleanup and/or loss of jnl files.
- Problems: Human Error
  - jm\_tttau and jm\_wjet produced in fresh OBJY federation with same owner names: metadata cannot be merged with old federation. For now, served at FNAL from distinct User Fed.
  - Do we really have to rerun a week's worth of data to change the owner name ? This is silly.

# FNAL Production Progress (thru end of May)

Stats can be viewed at [http://computing.fnal.gov/cms/Monitor/cms\\_production.html](http://computing.fnal.gov/cms/Monitor/cms_production.html)

Follow link to “Status of OODigis”

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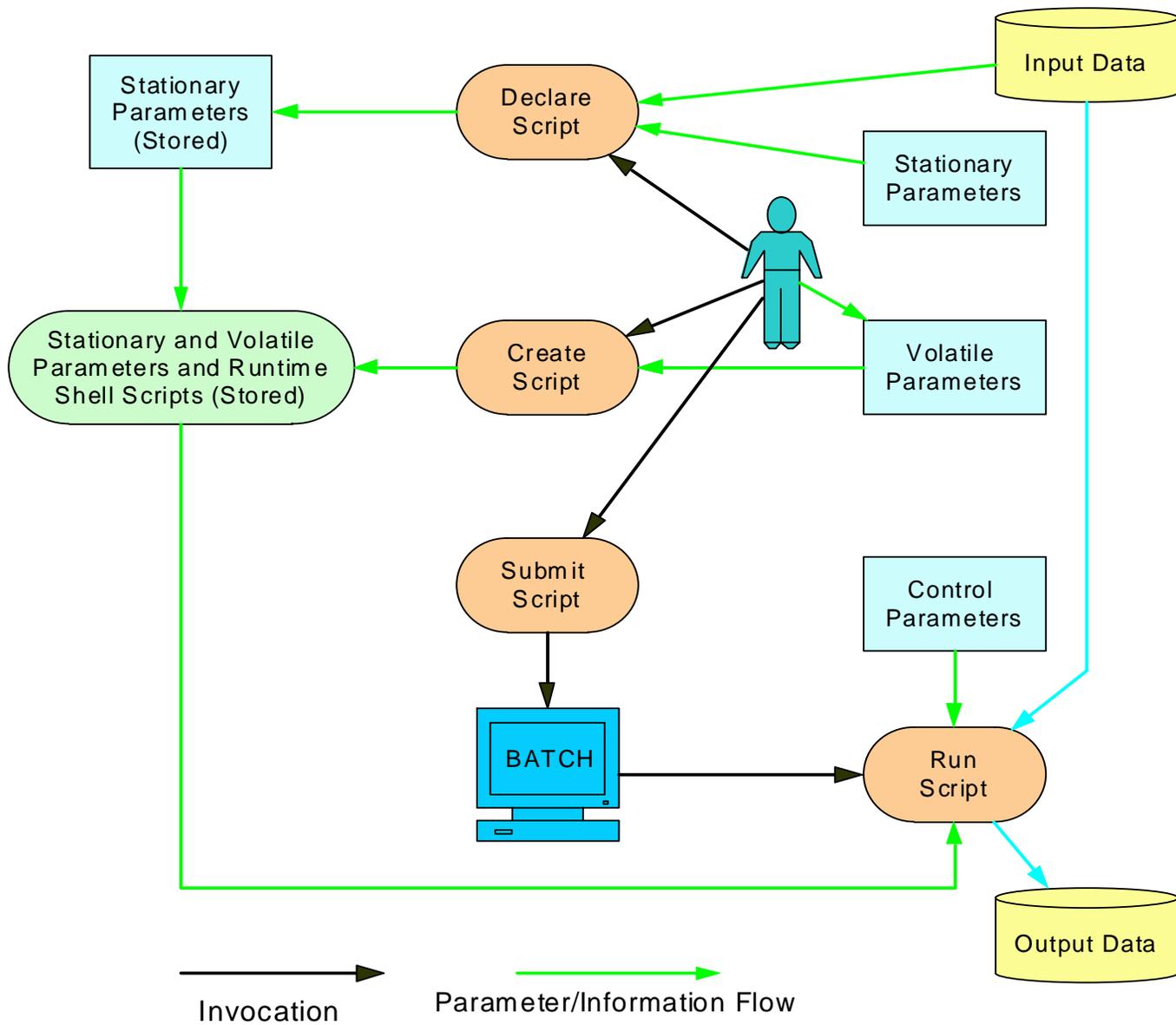
( Greg Graham - FNAL )

# FNAL Production Scripts

- Now: CMSIM, writeHits, writeDigis
- Soon: Pal Hidas' ntuple maker
- Production Parameter Categories:
  - Stationary: Those that don't change over a production cycle (eg.- pileup definitions, other things that we put in template files right now, ...)
  - Volatile: Those that change for every distinct job (eg.- dataset name, owner name, other things we control from the command line now, ...)
  - Control: Those that change unpredictably in response to farm conditions ( eg.- OO\_FD\_HOST, PATH to control where output is physically written. )
- The distinction is also used to identify how parameters need to be stored or queried upon

# FNAL Production Scripts

- User invokes the Declare script
  - If not generating data, a designated input area will be scanned to define input.
  - Stationary parameters are copied into an area where the scripts will be built
- User invokes the Create script
  - Scripts are created and stored to process the object data
  - Volatile parameters are fixed at this time
- User invokes the Submit script
  - The Submit script submits created jobs to batch
  - Once the created jobs are running, the control parameters are read in.



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Object (Data) Graham - FNAL

# FNAL Production Scripts

- See [http://computing.fnal.gov/cms/Monitor/cms\\_production.html](http://computing.fnal.gov/cms/Monitor/cms_production.html) for details.
- In use at
  - FNAL, CERN, UCSD, Bristol (?)
- Trying them out at
  - INFN, Wisconsin, Florida
- We are constantly upgrading for portability and evolving in response to many helpful comments from many people.