

Analysis & CRAB jobs at Tier-3s

USCMS Tier-3 Workshop
OSG all hands meeting

PRIVATE PRODUCTION

Debug

Interactive

Produce

Local batch system

If CE & SE, CRAB

Submit CRAB jobs to another site

Share

If SE, manual private DBS registration

Simple private DBS registration

Promote

Manual global DBS registration

Transfer

PhEDEx

ANALYSIS



Select official dataset

Twiki/DBS

Get event data

Download dataset/block with PhEDEx

Get a few files with FileMover

Produce tuples

Use local batch system

If you have a CE and SE, can use CRAB

Submit CRAB job to another site

Analyze tuples

Interactive or local batch system

If you have a CE and SE, can use CRAB

Tuples

- event data (GEN, SIM, DIGI, RECO, AOD)
 - Generally read only in full framework
 - Large files, slow access, technical
- PAT
 - Commonly read in both full framework & FWLite
 - Medium size and access speed, user friendly
- TTree
 - Generally read only in FWLite
 - Small files, fast access, user designed

Interactive nodes

- Need access to CMSSW, gLite-UI and/or OSG utils, CRAB.
- I recommend 2+ physical or virtual machines.
- Special considerations:
 - Not a part of the batch pool
 - Additional software packages
 - Access (Simple ssh? Kerberos? Round robin?)

CRAB developments

- GlideIn submission
 - ucsd CrabServer only (also supports glite)
 - Jobs come in on generic proxy - if you want particular users mapped to specific accounts, you must install gLExec
- /store/temp/user
 - Temporarily stores CRAB output which failed to stageout
 - Used in CRAB_2_7_X+
 - [Doug tested all USCMS Tier-3's](#)
- glite submission via CrabServer without gLite-UI
 - Available in CRAB_2_7_X+
 - For now, must use development CrabServer (pisa)
 - [Implementation details](#)
- CrabServer submission only sometime this year
 - Direct submission will not be supported, must go through CrabServer
 - white/black listing still supported