

# News and MC Production Status

# News

- Toronto BigMac cluster's masternode001 started crashing due to memory errors around Sept. 9<sup>th</sup>, costing us over a week
  - MC production resumed again last weekend, although stability issues remain
- At next (Oct. 7<sup>th</sup>) Simulation meeting, we will discuss MC production issues
  - Physics-group MC representatives: Please talk to your physics group to develop a plan of MC production sample needs for the upcoming winter conference season. It's not too early!
  - Next meeting: Physics-group MC representatives report on plans
- ISAJET/TAUOLA librarianship
  - We welcome John Zhou as new librarian!!
- HERWIG librarianship
  - Jeremy Lys outgoing – thanks!
  - New librarian identified, but needs TBC
- Energy violation problem in Herwig 6.504 just discovered (compiler again?)
  - Thanks to Un-ki Yang! (see his talk in this meeting)
  - Observed in top signal MC samples ttopti, 32 CAF samples (different top masses), probably also ttopfl, as well as Herwig QCD dijet samples

# News, cont'd

- Run Dependent MC

- Task force met yesterday to come to agreement on plan
- Large-scale production currently uses 732 runs (see CDF-7055)
- Guidance for individuals making personal MC:
  - Use 700+ run scheme OR
  - Use a single run (number to be announced soon)
  - Watch MC Production web page for details
- Next iteration of MC production will include non-silicon run dependence

- B Group has requested TOF simulation as-is for next release

- B Group needs semileptonic sample (Pythia  $m_{sel} \geq 1$ , select b), 20M events before Thanksgiving

# Snapshot of MC Production Status

**ttopel Pythia mtop=178 1.15M Toronto CPU Running CPU DONE, At FNAL, Concat'ed, In DFC**

**ttopfl Herwig mtop=178 1.15M Toronto CPU Running CPU DONE, Transferring->FNAL**

- |                                  |                                                 |
|----------------------------------|-------------------------------------------------|
| 19) HERWIG DIJET PT=3            | 1M Alberta jqcd0g CPU DONE, At FNAL, In DFC     |
| 20) HERWIG DIJET PT=10           | 1M Toronto jqcd5g CPU DONE, At FNAL, In DFC     |
| 21) HERWIG DIJET PT=60           | 1M Toronto jqcd6g CPU DONE, At FNAL, In DFC     |
| 22) HERWIG DIJET PT=90           | 2M Toronto jqcd7g CPU DONE, At FNAL, In DFC     |
| 23) HERWIG DIJET PT=120<br>runs) | 2M Toronto jqcd8g CPU Running, At FNAL (less 50 |
| 24) HERWIG DIJET PT=150          | 2M jqcd9g CPU DONE, At FNAL (less 80 runs)      |
| 25) HERWIG DIJET PT=200          | 1M Alberta jqcdag CPU Running, At FNAL          |
| 26) HERWIG DIJET PT=300          | 1M jqcdbg                                       |
| 27) HERWIG DIJET PT=400          | 1M Alberta jqcdcg                               |
| 28) HERWIG DIJET PT=500          | 1M Alberta jqcddg                               |

(CDFSim ONLY):

- |                                           |       |        |
|-------------------------------------------|-------|--------|
| 12) Alpgen+Pythia bbbar PT=20             | 0.5M  | jqcdrg |
| 13) Alpgen+Pythia bbbar PT=70             | 0.25M | jqcdsg |
| 14) Alpgen+Pythia ccbar PT=20             | 0.5M  | jqcdtg |
| 15) Alpgen+Pythia ccbar PT=70             | 0.25M | jqcdug |
| 16) Alpgen+Pythia bbbar PT=8              | 0.5M  | jqcdqg |
| 17) Alpgen+Herwig bbbar PT=8              | 0.5M  | jqcdvg |
| Pythia diphoton (rep. of pexo2d w/ 5.3.3) | 1M    | pexo3d |

# Detailed Prioritized List of Requests & Status

[http://www-cdf.fnal.gov/internal/mcProduction/Priority\\_20040625\\_2.txt](http://www-cdf.fnal.gov/internal/mcProduction/Priority_20040625_2.txt)

# Detailed List of Requests by Physics Group

[http://hep.physics.utoronto.ca/RachidMazini/cdf/cdf\\_mcprod.html](http://hep.physics.utoronto.ca/RachidMazini/cdf/cdf_mcprod.html)