

# MC Production News

Colour Key:

In DFC

CPU done but not in DFC

In queue for CPU

# 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)

# News

- All samples containing the last-run-section-duplicate-event bug have now been concatenated
  - Lower priority: salvage of the removed last run sections (remake of event numbers, concatenation, transfer, write-to-tape)
- Concatenation and tape-writing bottleneck amelioration:
  - A third CAF disk has been made available temporarily (fcdpdata005); thanks to FKW and CAF people
  - Dmitri, Rick St.-D., and FKW are working on adding 1-2 extra MC import servers for writing events to tape (this will help throughput significantly)
- Good run list that's being used for MC Production isn't identical to that in DQM v6
  - has B-group MC lineage (~7% non-overlap with DQM v6 good run list)
- Un-ki: found potential problems in ttopui and ttopti Pythia and Herwig samples:
  - Pythia settings for W/Z P\_T tuning
  - Herwig version (v6.504 instead of v6.4)
- Top priority this week is the Pythia Dijet samples for jet corrections
  - Goal is to have these ready by early next week
- New prioritization for remaining samples (see prioritized web page):
  - Herwig Dijet samples now put at higher priority than Alpgen+Pythia heavy-flavour samples
  - +1 and +2 MB samples have been put at lower priority

# Current Samples Under Production

QCD group 5.3.3 dijet samples with 0 min bias

- 1) PYTHIA Z Born Term 1M jqcdog @ Alberta (784 jobs) CPU DONE, At FNAL, In DFC
- 2) PYTHIA DIJET PT=0 1M jqcdeg @ Toronto (784 jobs) CPU DONE, At FNAL
- 3) PYTHIA DIJET PT=10 1M jqcdfg @ Toronto (784 jobs) CPU DONE, At FNAL
- 4) PYTHIA DIJET PT=60 1M jqcdgg @ Alberta (784 jobs) CPU DONE, At FNAL, In DFC
- 5) PYTHIA DIJET PT=90 2M jqcdhg @ Toronto (962 jobs) CPU DONE, At FNAL, In DFC
- 6) PYTHIA DIJET PT=120 2M jqcdig @ Toronto (962 jobs) CPU DONE, At FNAL
- 7) PYTHIA DIJET PT=150 2M jqcdjg @ Toronto (962 jobs) CPU DONE, At FNAL, In DFC
- 8) PYTHIA DIJET PT=200 1M jqcdkg @ Alberta (784 jobs) CPU running
- 9) PYTHIA DIJET PT=300 1M jqcdlg @ Alberta (784 jobs)
- 10) PYTHIA DIJET PT=400 1M jqcdmg @ Toronto (784 jobs) CPU running
- 11) PYTHIA DIJET PT=500 1M jqcdng @ Toronto (784 jobs) CPU running

# Next Priority

## 18) PYTHIA Z+Jets

(MSEL=13) CTEQ5L PT=20      1M      jqcdpg

19) HERWIG DIJET PT=3      1M      jqcd0g

20) HERWIG DIJET PT=10      1M      jqcd5g

21) HERWIG DIJET PT=60      1M      jqcd6g

22) HERWIG DIJET PT=90      2M      jqcd7g

23) HERWIG DIJET PT=120      2M      jqcd8g

24) HERWIG DIJET PT=150      2M      jqcd9g

25) HERWIG DIJET PT=200      1M      jqcdag

26) HERWIG DIJET PT=300      1M      jqcdbg

27) HERWIG DIJET PT=400      1M      jqcdcg

28) HERWIG DIJET PT=500      1M      jqcddg

## Next Priority, cont'd

**(CDFSim ONLY):**

<b>12) Alpgen+Pythia bbbar PT=20</b>	<b>0.5M</b>	<b>jqcdrg</b>
<b>13) Alpgen+Pythia bbbar PT=70</b>	<b>0.25M</b>	<b>jqcdsg</b>
<b>14) Alpgen+Pythia ccbar PT=20</b>	<b>0.5M</b>	<b>jqcdtg</b>
<b>15) Alpgen+Pythia ccbar PT=70</b>	<b>0.25M</b>	<b>jqcdug</b>
<b>16) Alpgen+Pythia bbbar PT=8</b>	<b>0.5M</b>	<b>jqcdqg</b>
<b>17) Alpgen+Herwig bbbar PT=8</b>	<b>0.5M</b>	<b>jqcdvg</b>

# +1 Minbias Samples

10% statistics with 1 min bias

PYTHIA DIJET + 1 MB PT=0 (0.5 M Events)  
PYTHIA DIJET + 1 MB PT=18 (0.5 M Events)  
PYTHIA DIJET + 1 MB PT=40 (0.5 M Events)  
PYTHIA DIJET + 1 MB PT=80 (0.5 M Events)  
PYTHIA DIJET + 1 MB PT=140 (0.5 M Events)  
PYTHIA phot+jet + 1 MB pt=22 (0.2 M Events)  
PYTHIA phot+jet + 1 MB pt=40 (0.2 M Events)

HERWIG DIJET + 1 MB PT=3 (0.5 M Events)  
HERWIG DIJET + 1 MB PT=18 (0.5 M Events)  
HERWIG DIJET + 1 MB PT=40 (0.5 M Events)  
HERWIG DIJET + 1 MB PT=80 (0.5 M Events)  
HERWiG DIJET + 1 MB PT=140 (0.5 M Events)  
HERWIG phot+jet + 1 MB pt=22 (0.2 M Events)  
HERWIG phot+jet + 1 MB pt=40 (0.2 M Events)

# +2 Minbias Samples

10% statistics with 2 min bias

PYTHIA DIJET + 2 MB PT=0 (0.5 M Events)  
PYTHIA DIJET + 2 MB PT=18 (0.5 M Events)  
PYTHIA DIJET + 2 MB PT=40 (0.5 M Events)  
PYTHIA DIJET + 2 MB PT=80 (0.5 M Events)  
PYTHIA DIJET + 2 MB PT=140 (0.5 M Events)  
PYTHIA phot+jet + 2 MB pt=22 (0.2 M Events)  
PYTHIA phot+jet + 2 MB pt=40 (0.2 M Events)

HERWIG DIJET + 2 MB PT=3 (0.5 M Events)  
HERWIG DIJET + 2 MB PT=18 (0.5 M Events)  
HERWIG DIJET + 2 MB PT=40 (0.5 M Events)  
HERWIG DIJET + 2 MB PT=80 (0.5 M Events)  
HERWiG DIJET + 2 MB PT=140 (0.5 M Events)  
HERWIG phot+jet + 2 MB pt=22 (0.2 M Events)  
HERWIG phot+jet + 2 MB pt=40 (0.2 M Events)

# EWK Full Minbias Samples

EWK group samples with full MB scheme:

wewk4m W->mv PYTHIA 2M

wewk8t W->tv PYTHIA 2M (Sunny)

zewkae Z->ee PYTHIA 2M (Sunny)

zewk3m Z->mm PYTHIA 2M (Sunny)

zewk8t Z->tt PYTHIA 1M

zewk6t Z->tt 1M CPU running (Sunny)