PRODUCTION QM2002

LIBRARIES

SL02c -> SL02d ->SL02e -> SL02f -> SL02g

SL02c -> SL02d

Several codes have been updated to fix embedding problems;
FTPC, MuDST codes have been developed;
vertex constrain for pp data implemented;
memory leaks and bug fixes in several codes;
Calibrations:
EMC calibrations for pp added;
dE/dx calibrations for pp put in DB;
L3 counter files put in DB.

SL02d -> SL02e

Final updates for pp code;
MuDST common code including strangness MuDST;
BBC/FPD QA histos;
TRS – added He3, He4, deutrons;
Central membrane correction for GSTAR;
new dynamic stamp sdtXXXXXXX implemented to run MC production;
memory leaks and bug fixes in several codes;
Calibrations:
Vertex seed calibrations for pp data put in DB.

SL02e -> SL02f

final SVT codes modifications to run test production for pp data with SVT tracking;

SL02f -> SL02g

final FTPC codes modification and calibrations to run

FTPC side production;
fixed wrong GEANT time;

Detail information about libraries is on the Web page:

http://www.star.bnl.gov/STAR/comp/ofl/software_releases.html

AuAu 200 GeV production

P02gc, P02gd, P02ge productions

Trigger label	#events in daq	#events event.root	#events PrimVrtx	HadrMB / HadrCent	UPC / TOPO
ProductionMinBias	**5.0 M**	**4.7 M**	**3.1 M**	**2.7 M**	**2.0 M**

Full Field **1.72 M**
Reversed Full Field **2.94 M**

Trigger label	#events in daq	#events event.root	#events PrimVrtx	HadrMB / HadrCent	UPC / TOPO
productionCentral	**5.5 M**	**4.0 M**	**2.5 M**	**2.3 M**	**1.7 M**
productionCentral600	**658 K**	**619 K**	**422 K**	**382 K**	**237 K**
productionCentral1200	**95 K**	**91 K**	**90 K**	**91 K**	-
Total Central	**6.25 M**	**4.7 M**	**3.0 M**	**2.8 M**	**1.9 M**

Full Field **2.38 M**
Reversed Full Field **2.31 M**

66% of ProductionMinBias and **62%** of productionCentral events have reconstructed primary vertex

minbias AuAu 20 GeV reconstructed **288 K** events

ProtonProton 200 GeV production

P02ge production

Trigger label	#events in daq	#events event.root	#events with Primary Vrtx
ppMinBias	**14.7 M**	**12.7 M**	**11.1 M**
FPDXmas	**1.5 M**	**1.3 M**	**1.2 M**
FPDtbEMCproduction	**1.66 M**	**1.36 M**	**1.27 M**
FPDEMCproduction	**2.3 M**	**2.0 M**	**1.9 M**
fpdTrigger	**0.632 M**	**0.410 M**	**0.295 M**
fpdTopBottom	**0.100 M**	**0.090 M**	**0.0 81 M**
Total pp 200 GeV	**20.8 M**	**17.8 M**	**15.8 M**

Full Field	**8.0 M**
Reversed Full Field	**9.8 M**

Total ppMinBias by trigger word - **13.5 M**

90 % of pp events have reconstructed primary vertex

SIDE PRODUCTION

P02gg production
288 K ProductionMinBias events for FTPC group with fixed FTPC reconstruction code.

P02gf production
SVT **reconstruction test for ppMinBias** - 1.3 M **events**

MC HIJING PRODUCTION (P02gg)

100 K minbias HIJING production with 2 RDO mask
and **50 K** central events with reversed full field (both).

SPACE and CPU

Trigger label	Total size of event.root files	Size of 1 event	CPU per event
ProductionMinBias	**2666 GB**	**0.5 MB**	**44 sec**
ProductionCentral	**7500 GB**	**1.4 MB**	**115 sec**
ProtonProton	**1291 GB**	**0.07 MB**	**8.6 sec**

Total for event.root **11.4 TB** + emcEvent + MuDst =

~ **15 TB**

Total number of events produced

AuAu + ProtonProton 200GeV - 27 M

More to run …

ProductionCentral	**1.5 M events**	**~14 days**
MinBiasVertex	**2.5 M events**	**~10 days**
ProtonProton	~2.0 - 3.0 M events	2 –3 days

Central	**158 K**	**?**	if you need it
minbias	**641 K**	**?**	