Data Production of BES-II

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1. **Data Production of BES-II 98'**
2. **BES-II Computing Environment**
3. **Summary**

1 Data Production of BES-II 98'

Since 5/March this year, BES-II has taken about 1000 runs and R scan, under the condition of MDC with splided high voltage. We would like to show you some informations from data production processes.

1. Data status of BES-II 98'

date	run number	status
5/March 98'	21001-21036	Test run
	21037-21048	cosmic ray
	21049-21052	Thres.(MDC)=625
	21053-21060	(21058 missing)
	21061-21074	Thres.(TOF)=400
31/March 98'	11001-11027	Test run
		Thres.(MDC)(layer2,4,6,8)=625,
		Thres.(MDC)(other layers)=725,
		Thres.(TOF)=600
1/April 98'	11028-11049	For calibration run
	11050-11259	Jpsi scan
19/April	11260-11970	R scan at Ecm=3.2,3.4,3.55,4.6, 5.0,2.6,...(Gev)
	(11350-11399 missing runs)	

The data mentioned above have been classified with three parts: raw data of physics events(*.raw), online data base file(*.odb) and luminosity data file (*.lum). Every raw event have to be identified different event type, such as Bhabha event, muon pair event, neutral event, hadron event, garbage,...(Fig.3 -8)

Bhabha events can use to do calibration and can also use to monitor process in which some hit maps and informations about charge distribution and about time distribution were accumulated. With these plots the basic performance of detectors can be shown for us to help hardware fine tunning. This fast feedback is to be important in adjusting and tunning BES-II. (Fig.1)

About 700 runs of R scan have been reconstructed a couple days ago.

Raw data and selected Bhabha, muon pair, neutral events, reconstructed data were copied whole onto 8mm tapes(double sets).

period	run number	offline processes
5/March-18/March	21001-21074	tape and selection of events
19/March-20/June	11001-11259	tape,flt,evout,rawmon,reconstruction
18/March-20/June	11260-11970	tape,flt,evout,rawmon,reconstruciton

2. Data transfer storage

   For the longer keeping of our reconstructed data, we are going to transfer the cartridge tapes(type-3480) into 8mm tapes for the BES-I construction data carried out before. A lot of work were under the progress way.

2 BES-II computing environment

The distribution of adding new hard disk can be show following:

Address	Hard disk type
/a/hpws0/home/hpws0/d27	ST19171 WD 9GB
/a/hpws0/home/hpws0/d29	ST19171 WD 9GB
/a/hpws0/home/hpws0/d31	ST19171 WD 9GB
/a/hpws0/home/hpws0/d32	ST19171 WD 9GB
/a/hpws1/home/hpws1/d28	ST19171 WD 9GB
/a/hpws1/home/hpws1/d30	ST19171 WD 9GB
/a/hpws2/home/hpws2/Jpsi1	ST19101 N 9GB(instead of 4GB)
/a/hpws4/home/hpws4/Jpsi2	ST19101 N 9GB(instead of 4GB)
/a/hpws6/home/hpws6/pub	ST19173 N 9GB
Poly 1 (Prof. Zhaozg's Group)	ST19171 WD 9GBX2
/a/hpws5/home/hpws5	New 8mm tape driver

We are known well that BES-II computing environment has been improved in the the passed year. Both of hardware and of software is to be including following as:

1. Adding 12 pc-Xterminals and 5 ordinary terminals. Together with a printin server supported by NT plotform. Every body working on BES-II can use easily on them without rushing to Computor Centre of IHEP.

2. Adding 11 sets of 9GB disk to rpovde much more space to suffice physics analysis.

   Total 11x9GB=99GB has been increased in the passed year.

3. Established a new our own FDDI ring (see Fig.2) to avoid too many intera- ctive processes of BES-II data transfering.

4. Upgraded HP version 9.05 to 10.20, using CERNLIB,NQS for HP- 10.20 and AMD for HPs.

5. Data base of online of BES-II locating BES Home Page can be accessed well Priliminarily.

6. Codeman version has upgraded to 10.1 from 10.0.

3 Summary

1. The data of BES-II for R scan and a few data for J/psi has processed.

2. BES-II computing environment has been improved, but we have still to get more money for having powerful computor fasility, CPU server with higher bandwidth bus connection and a wonderful network system.

3. More efforts should also be paid on BES-II software development and hard- ware condition.