Status of TOF/VETO

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Detector review meeting

- Hardware
- Analysis software
- New TOF readout

Hardware

PTOF	5.3m	4 channels
FIT	2.7m	8 channels
FTi2	$\sim$ 2.5m	32 channels
FTi1	$\sim$ 1.5m	-
STOF	$\sim$ -2.5m	8 channels
BTOF	-3.3m	4 channels
LVETO	-6.5m	22 channels

Data from TOF go to following data streams:
- Flash TDC for offline data analysis (CJC branch, CRPE bank)
- COP branch for filling the gated output hit paterns (BRTE bank)
- CAMAC TDCs for online monitoring
- Central Trigger (Interaction, Background and Global trigger sygnals for each detector)

Data from VETO go to:
- Lumi branch for filling the gated output hit paterns (VETE bank)
- Central Trigger

The system is operational, in general. No big problem during the last months. But ...

- Spare problem:

we use 13 NIM crates, most of them are over 10 years old. Recently 2 were damaged

- Manpower problem:

people who have designed and build the system have left.

- Some incosistency in channel mapping is found - will be investigated

Analysis Software and DQ checks

-Time reconstruction from FTDC data

Calculate start time with measured charges drom the signal in different time periods by FADC. Calibration constants are calculated in 1-st approximation for most of channels.

-Time reconstruction efficiency - to be done

-Data quality checking

-Reconstruction, L4

New TOF readout

For details see talk of V.Grabski in Trigger Meeting 02.07.2002

Collect all TOF/VETO timing and hit paterns within a single system in r.101 The TOF hit paterns will be collected by PTL2000 cards (48+33 ?), timing information will be collected by a multihit TDC CAEN767A. Also all TOF gates will be readout that there is full control over the gates and that trigger signals can be derived directly from the TDC timing.

The new readout is developed in a RIO2 board (LynxOS). Data will be sent to subsystem 101 via VSB link - details need to work out with experts

Electronic
Design of NIM-ECL(diff) and NIM-H1 converters is made by A.Cher. 2 modules of NIM-ECL(diff) and 1 NIM-H1 converters are ready (but the capacities have to exchanged). Remaining modules will be made.

Cabling
All signals from trailer are transferred to room 101

Programming
Grabski-Dodonov