

MICE DAQ Update

Y. Karadzhov

UNIGE - DPNC

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Progress since the last CM

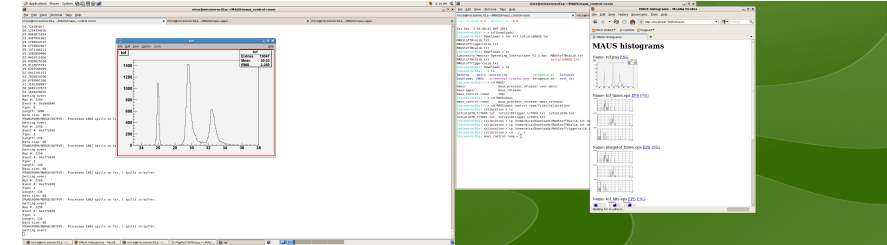
- Tracker unpacking is completed.
- MAUS runs online in the MLCR.
- Improved communication between DAQ and EPICS.

Work in progress

- Preparation for migration to SL 5.7 and DATE 7.27
- Development of new trigger system.

MAUS runs online in the MLCR

Online reconstruction gets the binary data trough the socket.



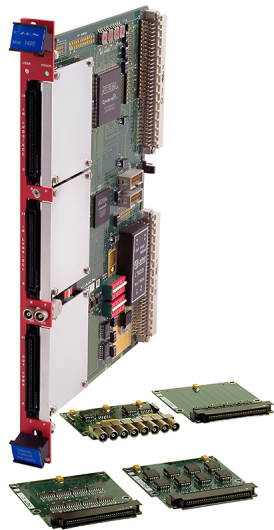
Improved communication between DAQ and EPICS

- *C&.M* exchanges information with DAQ.
- Done so far : DAQ sends information to EPICS.
 - ▶ Run number and Trigger condition at the begin of the run.
 - ▶ Scaler information - every spill.
 - ▶ Status of the datataking process - every spill.
- EPICS sends information to DAQ.
 - ▶ Beam type and polarity.
 - ▶ Magnet currents.
 - ▶ Target settings.
- Still need to do : DAQ to put this information into the data stream.

Preparation for migration to SL 5.7 and DATE 7.27

- The new Event builder machine is used as a test platform.
- We have SL 5.7 and DATE 7.27. on this machine.
- The equipment list code has to be adapted (almost done).
- Next step is to run simplified version of the DAQ using some spare fADC and TDC boards + EMR boards.

Development of new trigger system



CAEN V1495

- General Purpose VME Board;
- User customisable FPGA Unit;
- 64 inputs, expandable to 162;
- 32 outputs.