



Minicrate test status in Bologna site

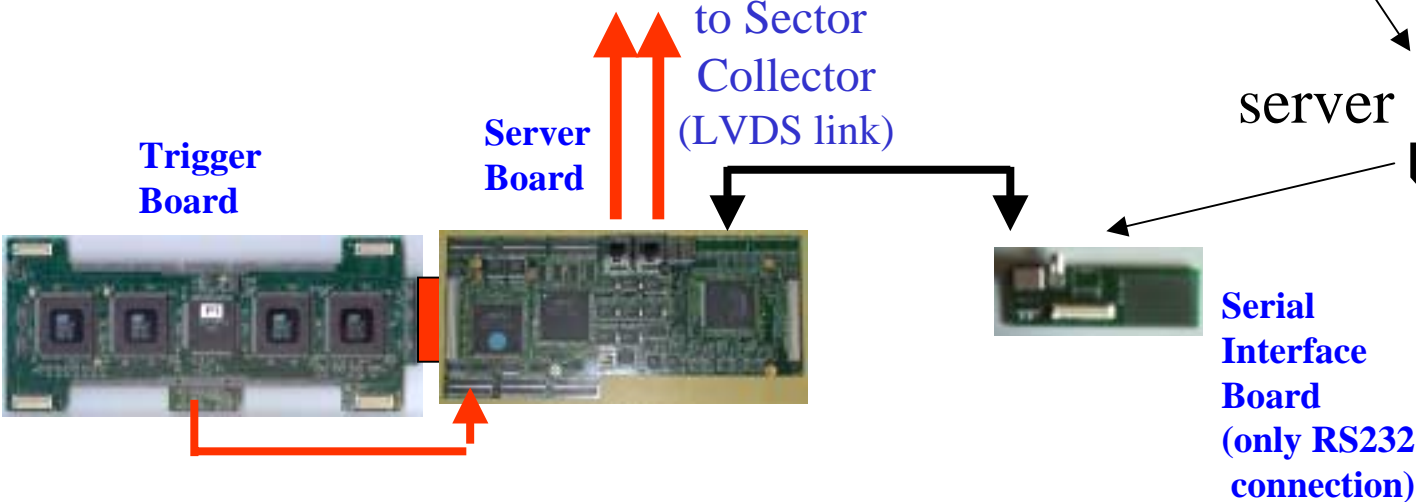
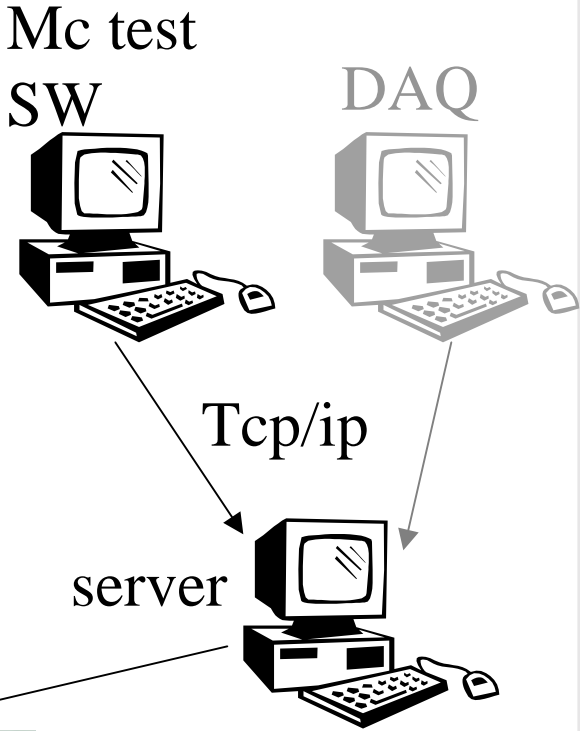
Three successive steps of setup preparation:

- Power, clock distribution and connectivity test between TRBs and SB:
 - ✓ Setup is being assembled, all parts are in or in procurement (optical fibers, 500W power supply)
 - ✓ Connectivity test SW by using JTAG Boundary Scan is in preparation

- Connectivity test between TRBs and ROBs (using test pulser):
 - needs FE of (dummy) test chamber te with -> still missing
 - Needs Pattern Unit and read-out SW -> OK
 - Alternative method by using TRBs and ROBs Jtag in under study (...?)

- run the full system trigger+DAQ+TTC..., adjust clock phase TRB-TRB and RO-TRB, vary thresholds....
full DAQ system still not available

Boards connections







Software Status

- Automatic SW (Visual C++) for connectivity test between TRBs and SB is being prepared and it will be used in the final test suite for minicrates validation.
- Manpower: A.Perrotta, T.Rovelli, R.Travaglini
- Status: check 1 TRB internal connection and TRB-SB cable integrity.
- Performance: about 3 minutes (main limitation: tcp/ip)
Expected: 15-20 min. per minicrate (depending on the number of boards)
- To be done:
 - debug sw for TRB-TRB connection check and scalability for all minicrates type;
 - integrate in the final system;
 - define user interfaces, bookkeeping and debug procedures in case of failure detection