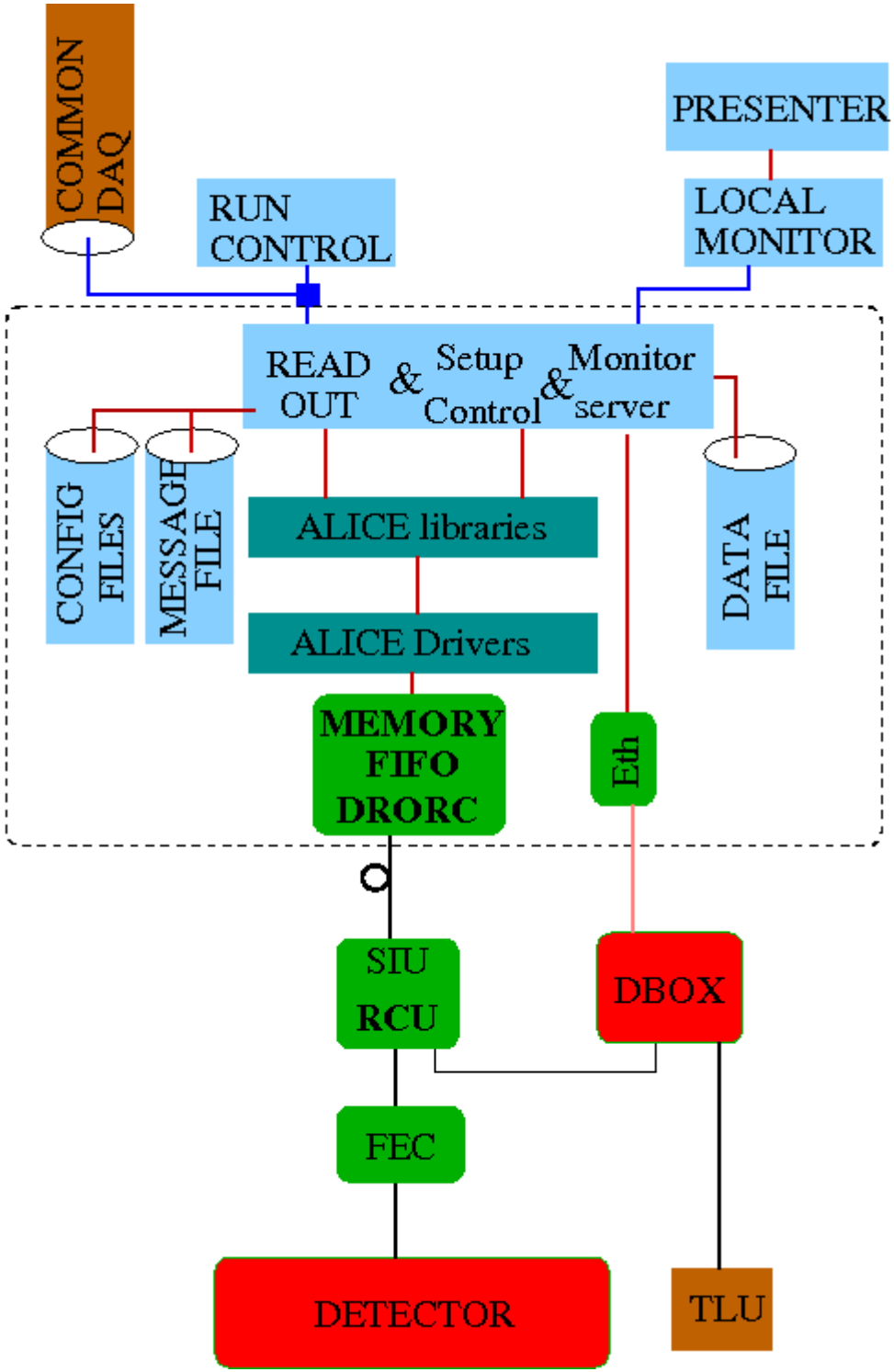
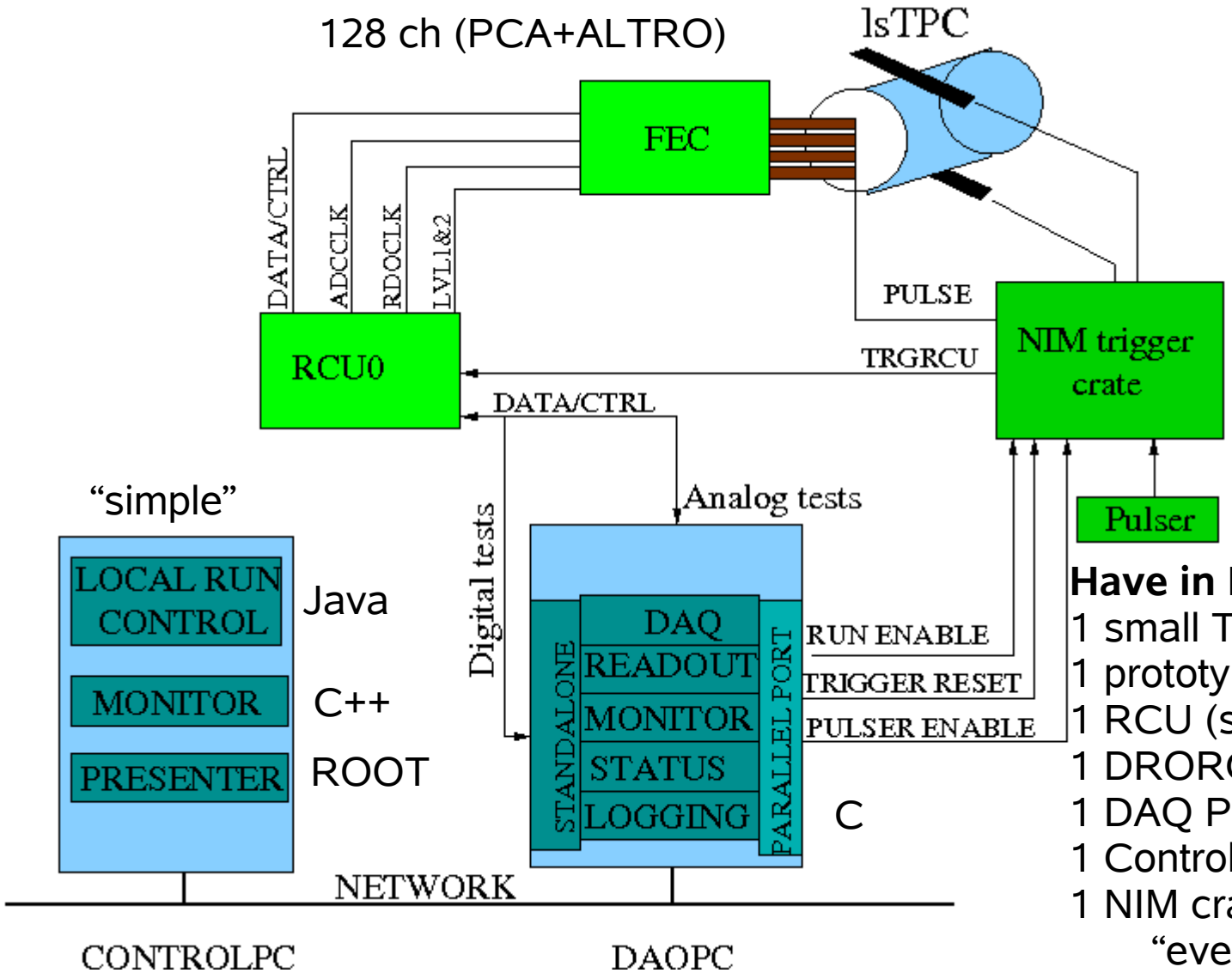
ATRO based readout
Design overview



Need at testbeam:

80 FEC (~10000 channels)
4 RCUs (modified)
2 DRORCs
1 DAQ computer
1 local control computer
1 DBOX (local trigger/distributor box)
1 TLU (common trigger box)
1 Interface to Common DAQ/monitoring

Current standalone test setup in Lund



Have in Lund:

1 small TPC
1 prototype FEC (128 channels)
1 RCU (standard – 10MHz clock)
1 DRORC
1 DAQ PC (needs 64 bit PCI bus)
1 Control PC
1 NIM crate for standalone trigger
"event by event"
non LCIO data format:
ALTRO raw + s/w headers

NEXT STEPS:
second FEC prototype mid July (need input from CERN about reference voltages)
interface to DBOX
updated RCU firmware (40MHz clock...) - ready in ALICE mid june (not got it yet)

FURTHER STEPS:
cables FEC – pad planes
mechanics
need 10000 channels (PCA+ALTRO 20/40MHz) – all not yet available/tested/bought
final RCU/DRORC/PCs for test beam - not yet ordered (list sent to CERN....)
80 FEC to be produced after second prototype found working
ALTRO backplane
Local test with > 1 DRORC
Implementation in a common DAQ framework