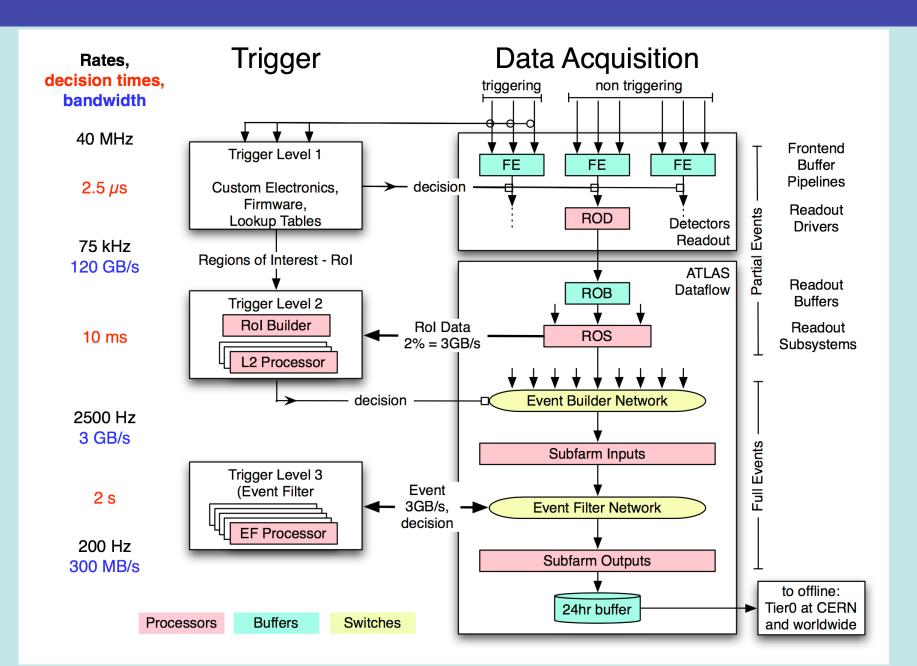


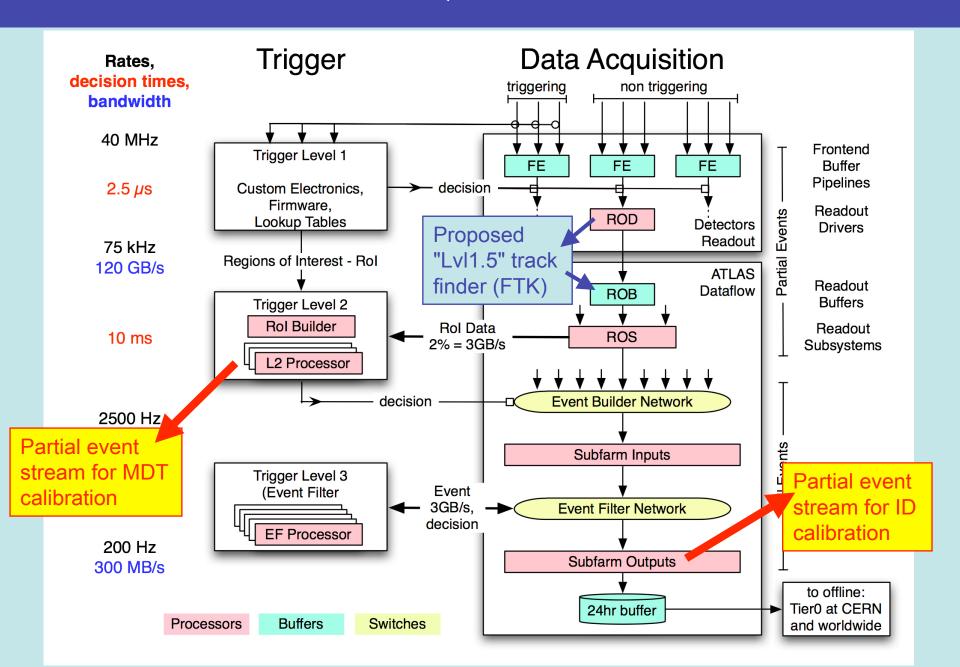
Recent HLT development TR - Mx - FDR planning

- ◆ Offline, HLT & TDAQ
 - ◆ "Global Release Co-ordination" meetings
 - Calibration streams
 - ◆ Hardware track finder proposal
- ◆ ATLAS Mx, TR, FDR plans

TDAQ overview

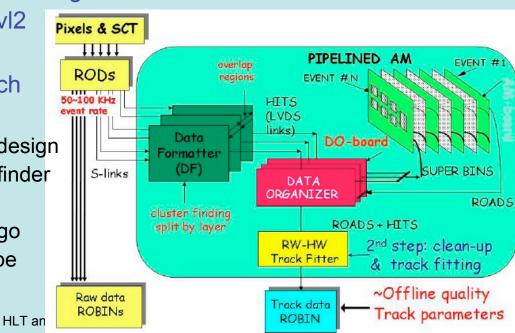


TDAQ overview



Infrastructure work on HLT level

- Data stream to MDT centres
- Accompanied by conditions data replication to MDT centres
- see Oliver's slide
- ◆ Similar request by ID groups but much lower rate, no need to branch off Lvl2
- Stream of partial events to be produced by SFOs
 - form sub-events based on list of ROBs
- ◆ In addition to other SFO streams (5* RAW physics, express, other calib)
- Proposed hardware track trigger preceding Lvl2
- Alternative to the fully SW-based Lvl2
- Interesting for B and tau physics
- Based on CDF experience, but much bigger lookup tables
 - "Proposal to prepare a technical design report for FTK, a hardware track finder upgrade to the ATLAS trigger"
 - Main author Mel Shochet / Chicago
 - 1-year R&D period will probably be recommended



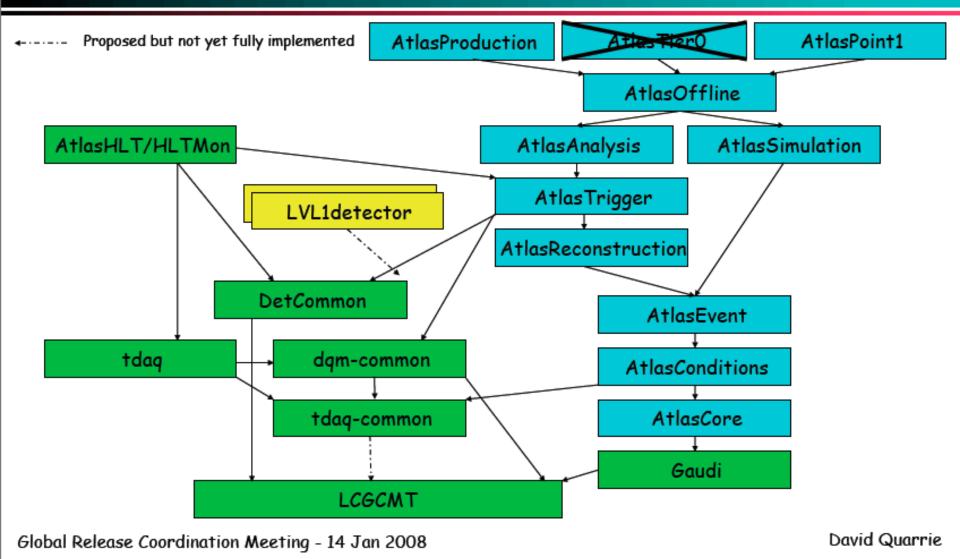
21 Jan 2008 / HvdS

Offline, TDAQ, and HLT software releases

- Co-ordinated by GRC Global Release Co-ordination group
- Led by David Quarrie, Livio Mapelli
- ~ bi-weekly meetings
- Very successful in speeding up the time it takes from offline release availability to usage at Point1, in HLT Selection & Monitoring
- HLT nightlies tied in with offline nightlies
- LCG is common denominator next release LCG-54
- Important: patching strategy
- Installation at Point1 now via RPMs for online, offline, HLT
 - Derived from Pacman kits so identical contents



Project Dependencies





Schedule for 13.2.0 and 14.0.0

- 13.2.0: 29 Jan
 - Targetted towards M6
 - Based upon LCG_53f for compatibility with tdaq-1.8.4
- 14.0.0: 26 Feb
 - Targetted towards global cosmics, FDR-2 and simulation for first physics data
 - Baseline for reconstruction for first physics data
- 15.0.0: May?
 - No decision yet, but could be used for reconstruction and analysis of first physics data in order to incorporate feedback from FDR-2 and global cosmics
- Problem is that 13.2.0 might be a bit too early for M6
 - Implies copying tags from main branch into 13.2.1 (tendency for divergence)
 - Possible alternative might be to put LCG_54 into main nightlies (13.X.0) and LCG_53f into "migration" nightly (c.f. 13.X.0-MIGO) for some time
 - Build 13.2.0 closer to M6

Global Release Coordination Meeting - 14 Jan 2008

David Quarrie



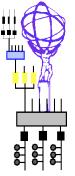
Patching Strategy

- Treat AtlasPoint1 and AtlasProduction as essentially identical apart from timescales
 - AtlasPoint1 used for Point1/Tier0 and Calibration Tier-2 processing
 - AtlasProduction used for remote processing and reprocessing of ATLAS data
- Patch tags go to both AtlasPoint1 (point1) and AtlasProduction (pcache)
 nightlies
 - Apart from AtlasSimulation tags which don't go to AtlasPoint1
- Validation based on RTT & FCT tests
 - Need to extend the Point1-specific tests
- AtlasPoint1 patches deployed within ~24 hours
 - After validation and as needed
- AtlasProduction patches deployed every 2 weeks
- Nightlies in support of this setup for 13.0.40.X already and will be for all future releases

Global Release Coordination Meeting - 14 Jan 2008

David Quarrie

TDAQ releases



- tdaq-01-08-04
 - Built on 18-Dec-07
 - Content Release notes
 - Externals LCG_53f
 - Installed in Point 1
 - To be used for M6
- tdaq-common-01-09-00 (tdaq-common-02-00-00 ?)
 - hltinterface, EventStorage, EventFormat , ...
 - New Boost version
 - Build date (preliminary) End of Jan 08
- tdaq-01-09-00
 - Content <u>TDAQ Release Planning</u> twiki page
 - New externals
 - Synchronized with Offline 14.0.X
 - Build date: End of Feb 08

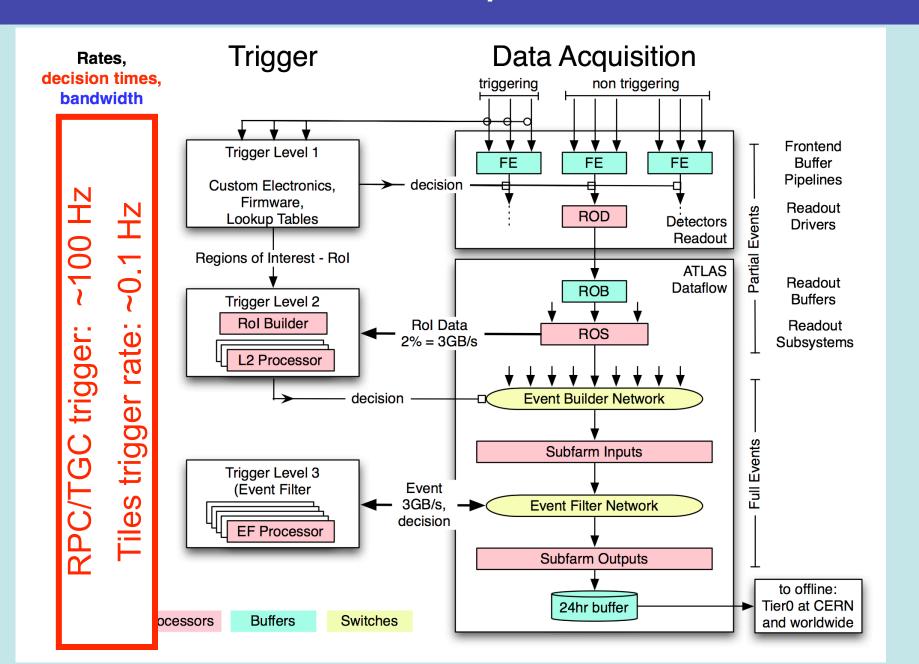
AtlasHLT 13.2.0 Nightlies

- Compiles since last week
 - Mostly workaround for problems related to as-needed flags, <constituent>_shlibsflags, trivial fixes
 - Private builds on pcatb cluster so far (to repeat quickly)
 - New CMT warnings from TDAQCPolicy and TDAQCExternal...
- Today: rel_1 opt on AFS
 - not all web links correct yet
 - Some integration tests don't finish (kill by hand)

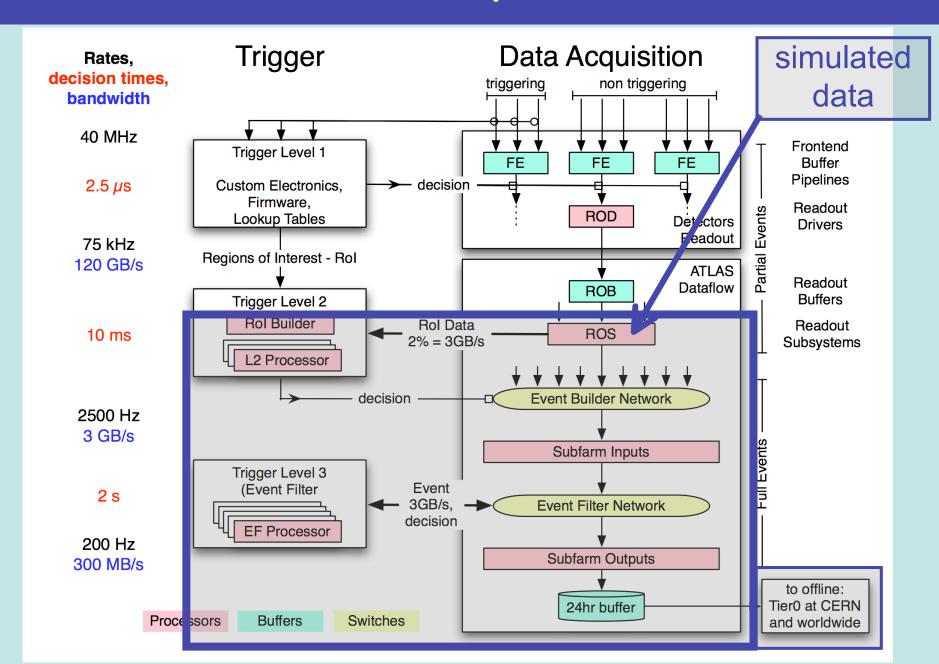
Next-future planning

- FDR Full Dress Rehearsal
- 2 periods with increasing amount of data
- Co-ordinator: Dave Charlton
 - ◆ FDR-1: week of 4 Feb
 (mainly 10³¹, 4 physics streams + express + ID calib)
 - ◆ FDR-2: ~ week of 5 May (mainly 10³²)
- TR -TDAQ Technical Runs
 - Next: week of 4 Feb, i.e. in parallel to FDR-1, share SFOs
- Mx integration/cosmics milestones
 - M6: week of 3 March
- Px commissioning runs
 - P3: week of 25 Feb

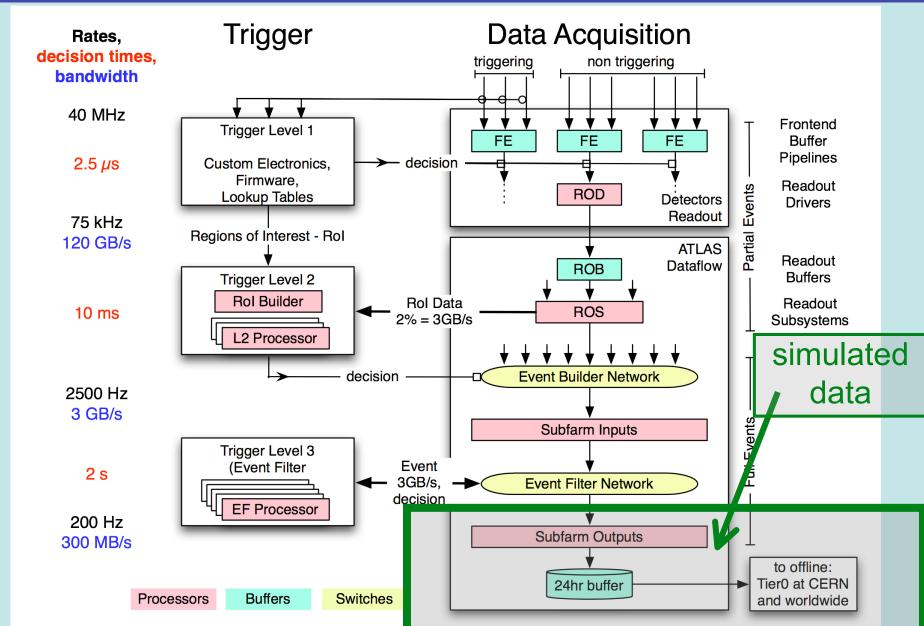
Mx scope



TR scope



FDR scope (online side - emphasis is on offline)



Staged commissioning plan for protons

