Releases & validation

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HLT UK – RAL – 13 July 2009

Point 1 schedule

Release schedule

- 15.3.0 Wed 24 June
  - **For MC09 digitization and reconstruction**
  - Tag submission deadline Thu 18 Jun 21:00
  - Critical item for trigger: menus and bug fixes
  - Bug fixes go to AtlasProduction cache

- 15.4.0 Wed 22 July
  - **For ATLAS turn-on (Sept)**
  - tag submission deadline Thu 16 Jul 21:00
  - Must have trigger deliverables for online use in this release
  - LCG externals change so sync with new TDAQ release (end July)
  - Bug fixes go to AtlaP1HLT and AtlasTier0 caches

- Post 15.4.0 ?
  - Series of caches and bug fix releases
  - Expect new features for analysis, detectors and monitoring
  - Plan to limit trigger to real bug fixes in cache,
    plus valuable enhancements via bugfix rels (to be discussed)
  - **Rel & val work will switch focus to cache & bugfix rels**
  - Mid to long term plans for dev releases during data taking not yet formulated.
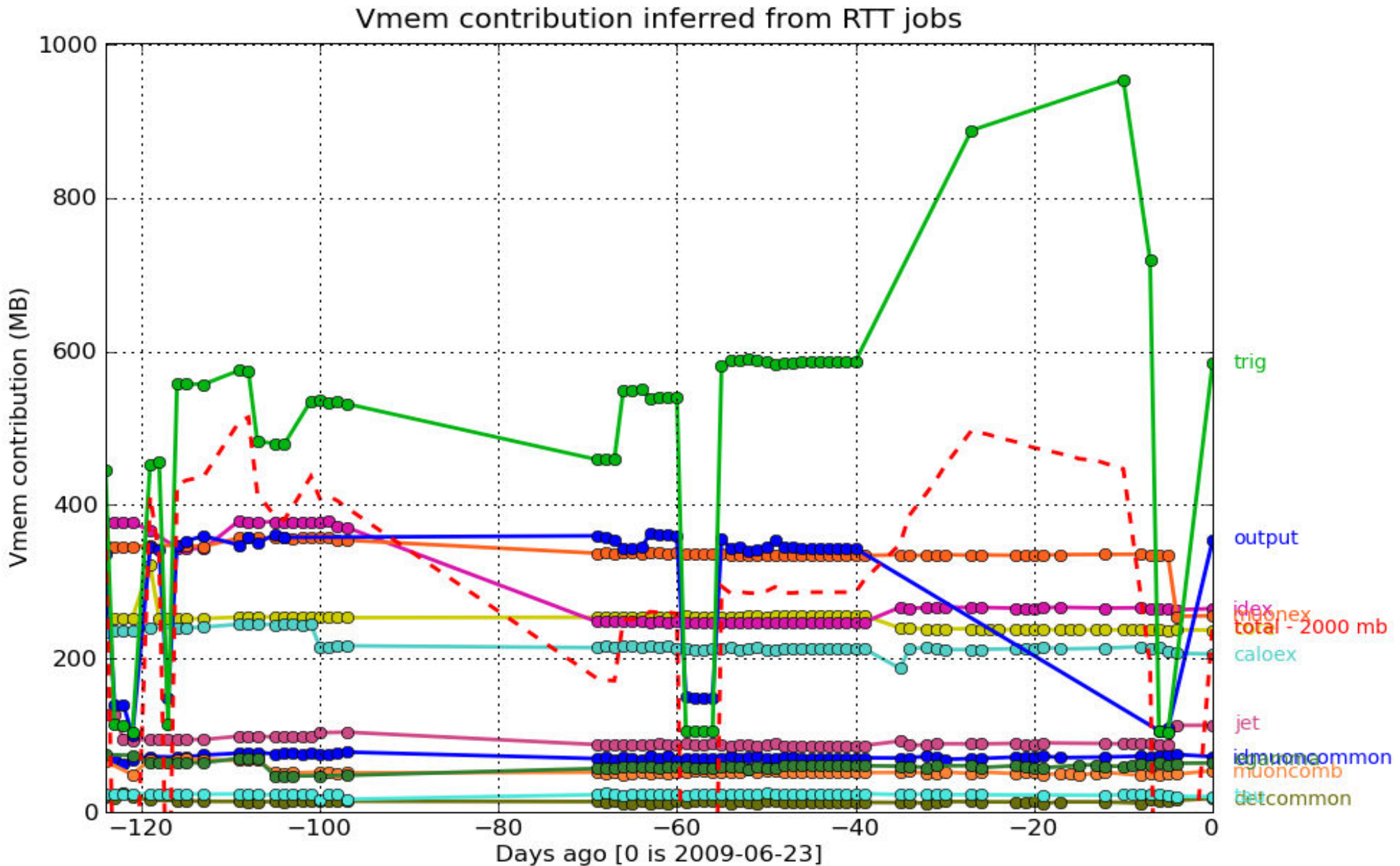
15.3.0 status

- MC09 trigger menu being finalised for 15.3.0.2
  - Sample A and enhanced bias runs to validate
- Slice performance validation to be done
- Open bugs affecting 're-run hypotheses' and 'HLTResult slimming' functionality
- AOD size issue – see Fabrizio's report
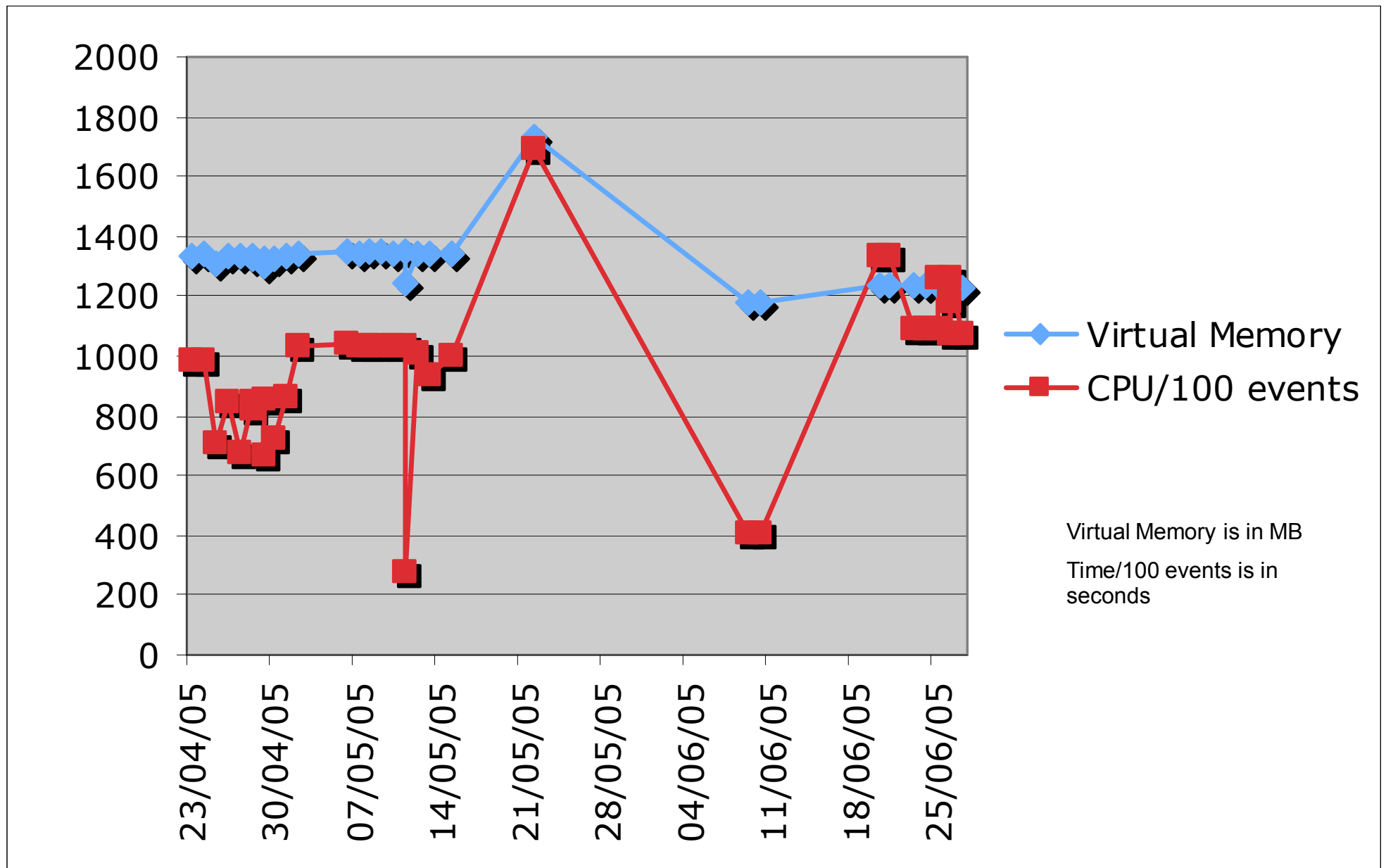
15.4.0 status - selected outstanding deliverables

T2 MC Menus uploaded to DB and distributed with release (core) B1 P. Bell

T3b Timeout handling inside algorithms (calo,id,muon) B1 calo,id,muon

T8b Algorithms able to modify response to missing data modified based on DetMask? (i.e. which detectors are being read out in a run) (all slices) B1 Slices

T10a Monitoring tailored for Cosmic running (histogram ranges, ref. histos, DQ checks) (monitoring+all slices) B1 slices

T10b Monitoring tailored for Single Beam (monitoring+all slices) B2 slices

T10c Monitoring tailored for Early collisions & Stable running (monitoring+all slices) B3 slices

T11 Tier0 monitoring comparing offline and HLT quantities (all slices) B2 slices

T12 CAF monitoring in place (all slices) B3 slices

T13b Algorithms automatically configured for Solenoid and Torroid field settings (ID done, Muon) B2 Oh

T14 Completed definition of Trigger content in DPD (EDM) B3 Salvatore

T15 Changes to follow Muon Review recommendations (muon) B2 Oh

T16a Minor EDM changes (ID) [Cat. B] B1 Emeliyanov   (done pending tests)

T16c Minor EDM changes (Electron) [Cat. B] B1 Goncalo   (done pending tests)

T21d Migration of all TrigDecisionTool trigger clients B3 Slices

T22 Serializer extended to handle top level persistent class evolution (EDM) B1 Masik (done pending tests)

T23 ntuples can be written to single or multiple files configured by TriggerJobOpts? & tested with tier0 production script B3 Slices

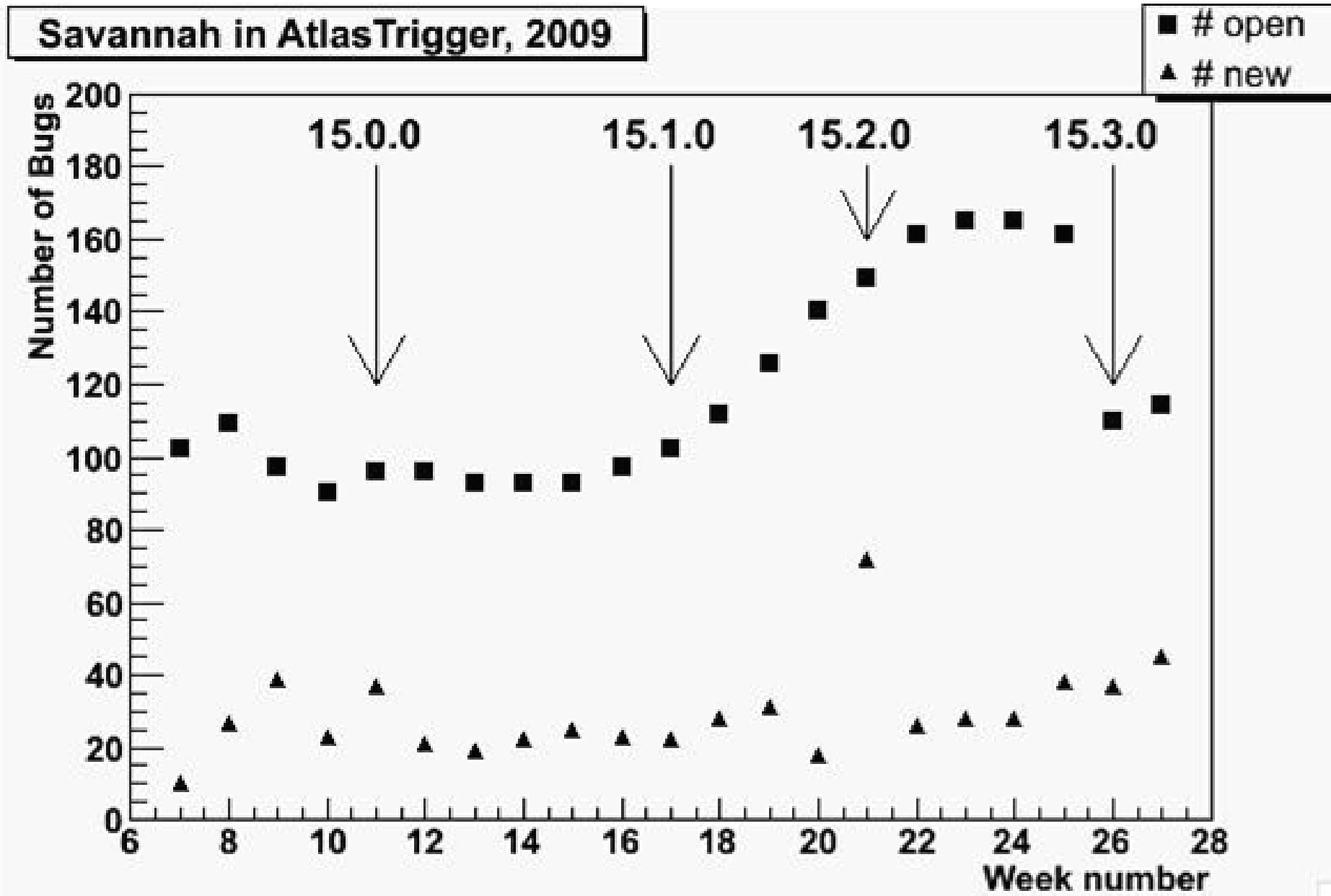Based on https://twiki.cern.ch/twiki/bin/view/Atlas/TriggerWorkPlanRel15#Top_Level_Deliverables

Memory usage per domain (PMB)

Vmem contribution inferred from RTT jobs

Memory and CPU in MC_lumi1E31_no_prescale RTT test

Virtual Memory is in MB

Time/100 events is in seconds

Bug closing campaign

Savannah in AtlasTrigger, 2009

Bug closing campaign by slice

Number of open trigger bugs by category

Legend: 15-Jun-09, 17-Jan-09

Categories: None, Event Data, E/gamma slice, LVL1, Tau slice, Monitoring, HLT Muon, Offline, HLT, EF ID tracking, Minbias slice, B Physics, Trigger Menus, TriggerConfig, Cosmic slice, ETmiss slice, HLT Calo, Jet slice, RegionSelector, Analysis, L2 ID tracking, General, Steering, Bjet slice
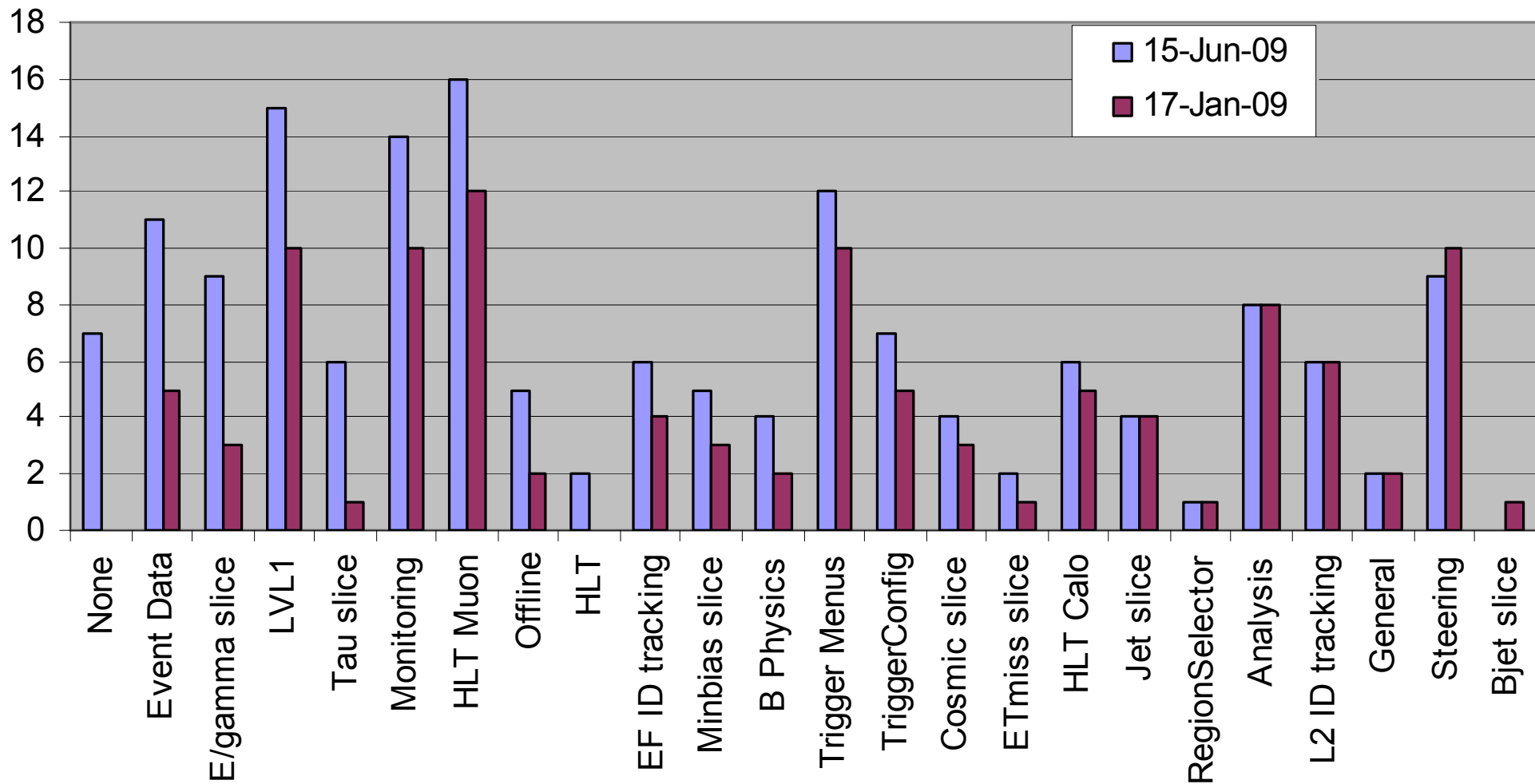
Core, rel & val – op & service tasks

- Operational tasks:
  - Release coordination (Simon, Dmitry)
  - Validation coordination (Ricardo, Monika)
  - Validation daily report shifts (several UK people)
  - Other contributions welcome
- Service tasks, e.g. for author qualification: https://twiki.cern.ch/twiki/bin/view/Atlas/TriggerServiceTasks