



CERN Site Report

Helge Meinhard / CERN-IT

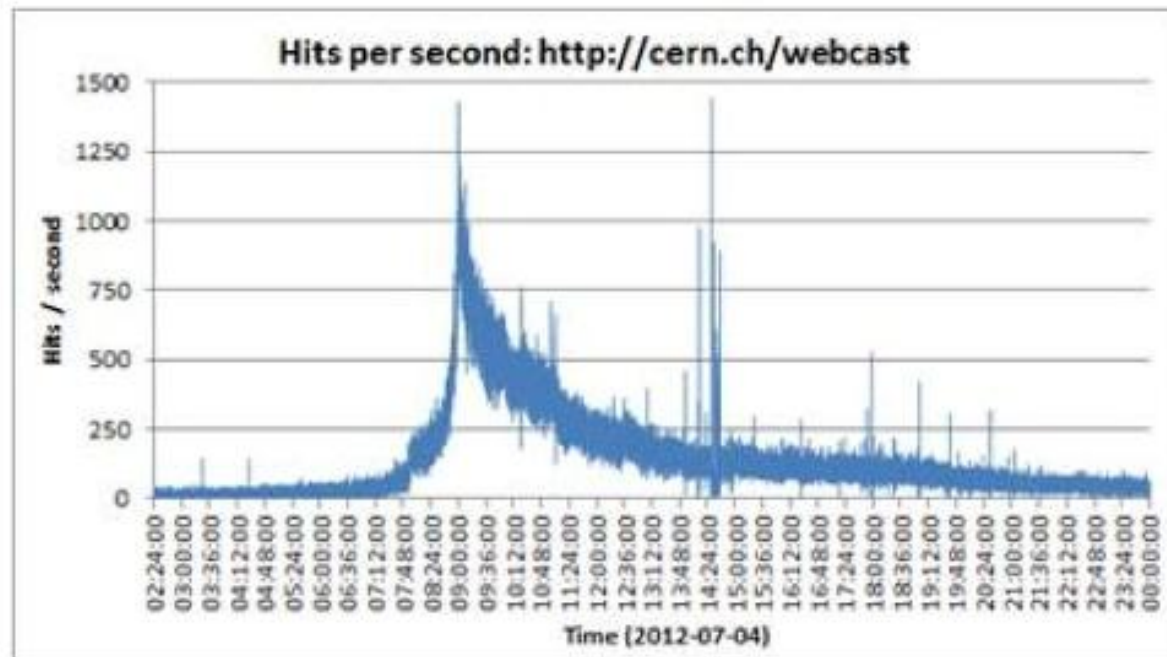
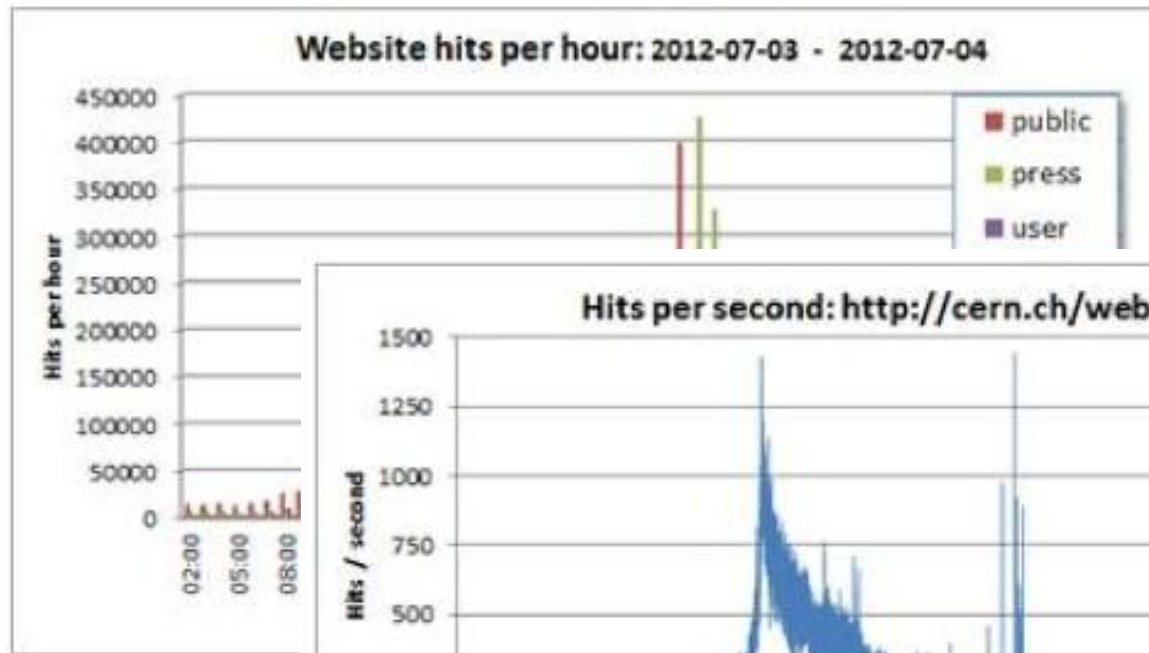
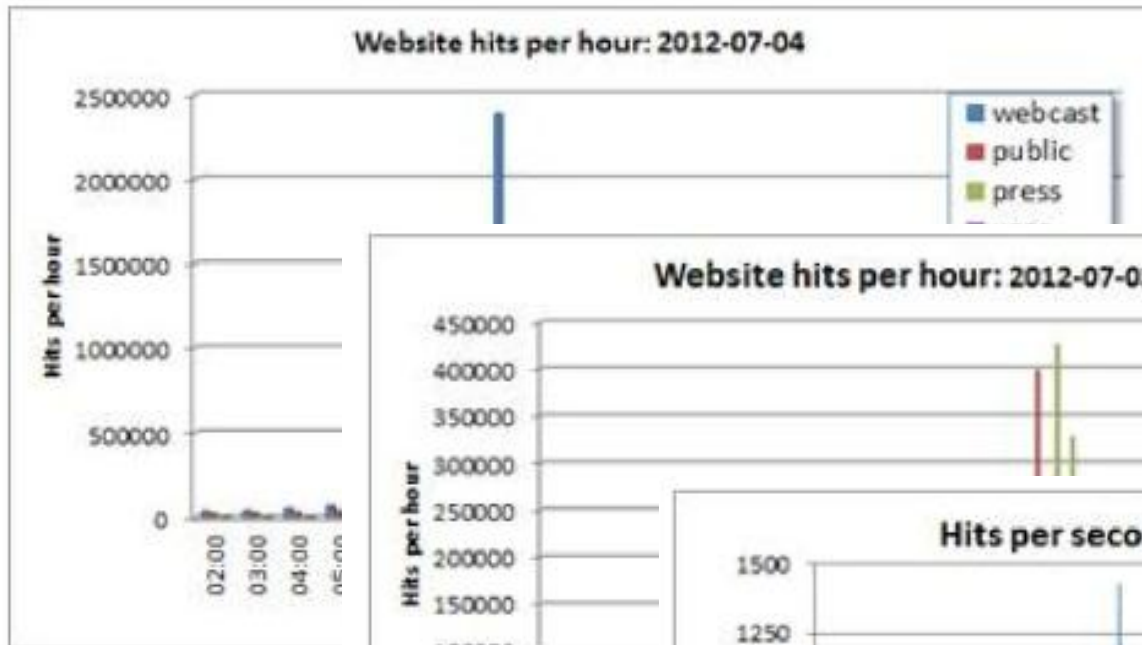
HEPiX Fall 2012

15 October 2012, Beijing

04 July: Higgs Seminar (1)

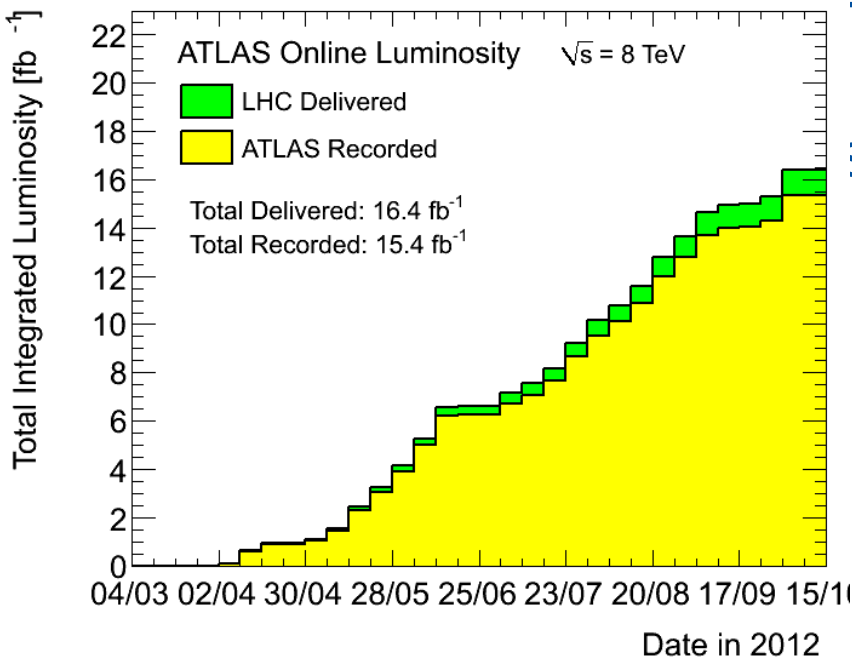


04 July: Higgs Seminar (2)

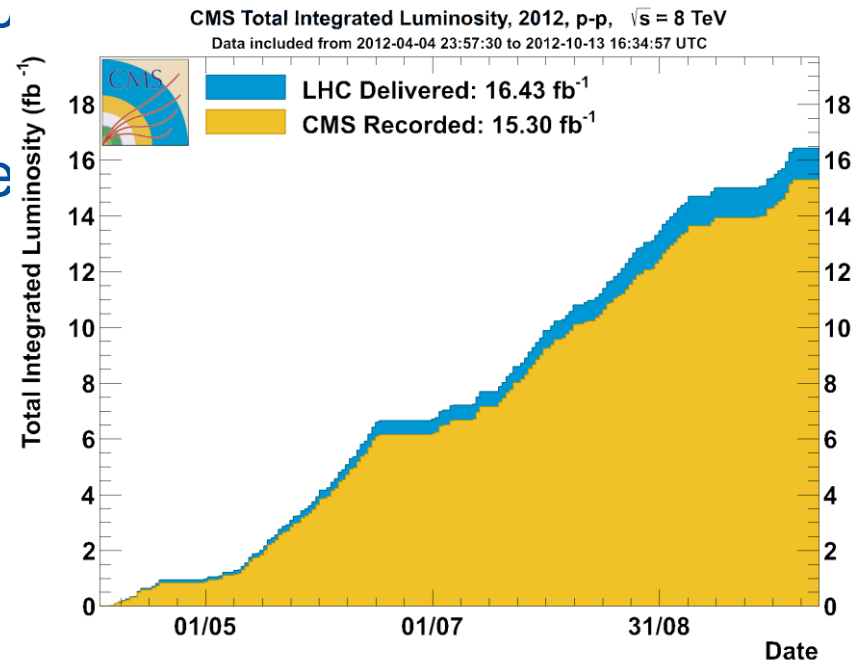


- P-p run extended until 18 December
- Heavy ions to start 16 January for three weeks
- Current data rate to tape: 1 PB/week
 - 1.5...2 GB/s out of CERN, 10 GB/s total

Expected total in 2012: 30 fb^{-1}



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- Wigner Budapest (host for remote T0) progressing well, on schedule
 - Contracts for 2 x 100 Gb/s links placed
 - Server delivery starts beginning 2013
- CC upgrade (Barn): more or less on track
 - Issue with piping: significant fraction of welds bad
 - Power cut in June by technician doing the wrong thing
 - In addition: toilets/showers being renovated, coffee corner being refurbished, outside emergency stairs being fitted
- SLC4 servers retired

- Vidyo rollout continues
 - Clients for all desktops and mobile devices exist
 - Linux in good shape now
 - ATLAS migration well advanced
 - CMS just starting
 - As of 1st Jan 2013, EVO quick launch config will be removed from conference room PCs
 - Being considered as replacement for MyTeamWork
 - SIP and Skype gateways coming

- EDUROAM
 - CERN users with certificate can log in abroad
 - EDUROAM at CERN being prepared (requires access points supporting broadcasting a second SSID)
- TETRA project (radio for fire brigade) progressing well, expected to be ready by start LS1
- MyTeamWork: stopped working with latest patches of IE and FF

- Oracle: Migration to 11g complete
 - CERN participates in 12c beta programme
- Database-On-Demand service: some 30 DBs
 - Mostly MySQL, some Oracle
- Oracle licence re-negotiation difficult
- Netapp about to join OpenLab as a contributor

- Backup (TSM) moving from complex hardware RAID configuration to simple scheme; performance gain: 38%

- Becoming more aggressive about retiring Windows XP by end of 2012 (except online teams)
- Mac support
 - Same team as for Windows desktop support
 - Can synchronise home directories with DFS
 - Can use CERN password
 - Common anti-virus (available for Linux as well)
 - Standard machine configurations easy to order
- OpenAFS client for Windows packaged, now optional
- Licensing: negotiating with RedHat

- **New SSO deployed**
 - Strong authentication (smartcards, SMS one-time-passwords, Yubikeys)
 - Alternate authentication: Facebook, Live, Google, Twitter, OpenID
 - Federations being tested (BNL, INFN)
 - Classes: CERN registered, CERN trusted, HEP trusted etc.
- **Web services**
 - Short URL service: added web analytics (Piwik)

- **Batch services: Running on about 35'000 physical cores**
 - Some hiccups leading to temporary unavailability or long response times
 - Sometimes related with high query loads
 - New contract in place, significantly higher ceiling of number of licences
 - In parallel, investigations about potential alternatives in context of AI
 - Accounting rework finished
- **CVMFS: Migration of Stratum-0 release nodes to CERN-IT completed**
- **Engineering services**
 - Considerations about longer-term CAD future: Catia V6?
 - Matlab: finally licence issues sorted out

- BOINC: 2 projects – Sixtrack (classic) and Test4Theory (Virtualbox and CERNVM)
 - Sixtrack with many more volunteers after July 4th, aggregate performance up to 40 TFLOPS
- Twiki upgraded to 5.1.1, installed GNUplot and JIRA plugins
- Issue tracking based on Jira: 50 projects in central instance, added Crucible and Fisheye
 - More in other instances migrated to central infrastructure
 - Savannah migration to Jira in early phase
- Version control services
 - CVS: being phased out, stop in 2013
 - SVN: Main workhorse, 1'173 repositories, 50'000 commits/month
 - GIT pilot being set up, targeting GA in 1Q2013

- Data classification policy
 - Public, internal, restricted, sensitive
 - Support already implemented in Indico and DFS
- Clarifying eligibility of obtaining a CERN account
 - Staff and users get one by default
 - Contributors and retirees can get one on request for specific services
 - Others can use CERN public services (e.g. CERN Market)

- Service catalogue reviewed
- Phasing out legacy databases
- Implementing new processes, e.g. change management

**THANK YOU
QUESTIONS?**