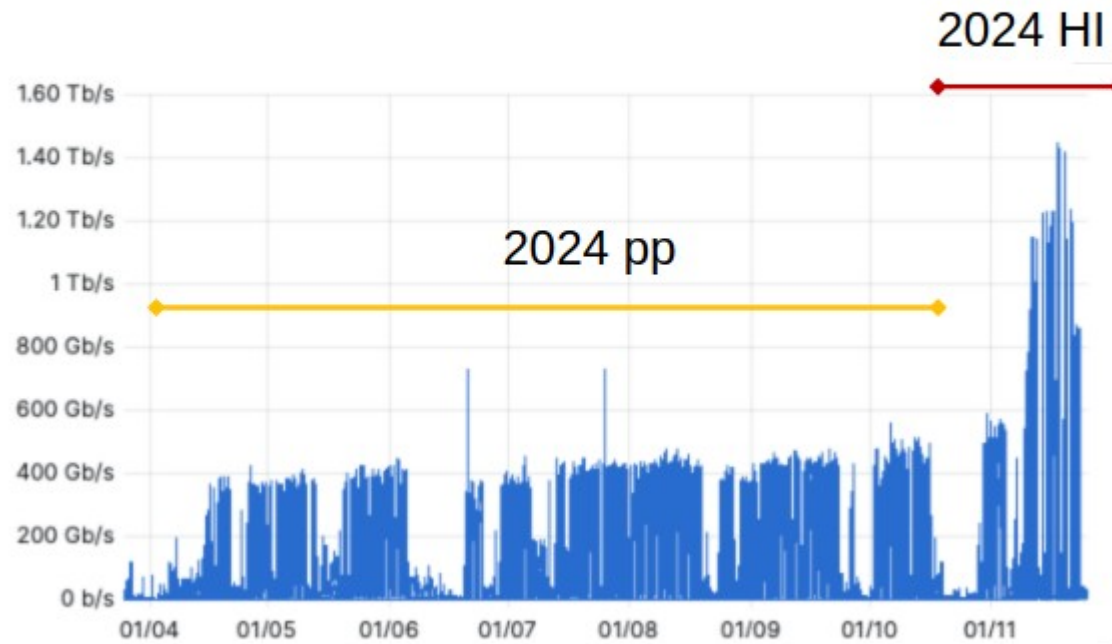


Nouvelles de l'Overview Board

L. Duflot



Hourly data rate from experiments to T0 (Gb/s)



- ◆ Il y aura des runs HI les deux années
- ◆ Plus de données qu'anticipé → besoins de + de tape au moins

The plan in the previous slide will be presented at the CERN Research Board on Dec 4th. Estimates (to be confirmed with the LPC on Dec 5th):

- 2025: 138 pp physics days, 6×10^6 s (up to 138 fb-1 in ATLAS/CMS, 13.5 fb-1 in LHCb and 60 pb-1 in ALICE) and 25 PbPb+OO physics days, 1.1×10^6 s
- 2026: 66 pp physics days, 3×10^6 s (up to 66 fb-1 in ATLAS/CMS, 6.5 fb-1 in LHCb and 30 pb-1 in ALICE) and 21 PbPb physics days, 1×10^6 s

All the above does not include contingency.

The 2025 numbers could be ~50% higher than planned (and resourced). Remember that 4 weeks were “moved” from 2025 into 2024, so 2025 was expected to be 120 fb-1 – 4 weeks for ATLAS and CMS

The WLCG priority should be ensuring that the experiments can collect and archive data (storage, particularly tape). This might come at the cost of something else (e.g. CPUs and in some respect disk)

We started the discussion at the management Board. We will re-iterate in January.



- ◆ Révision des annexes du MoU presque finie sauf partie liée à TF/OTF
- ◆ Dans le radar:
 - ◆ Greece, HEP Laboratory, University of Ioannina
 - ◆ Pakistan, Pakistan ALICE Federation (COMSATS)
 - ◆ Thailand, National e-Science Infrastructure Consortium (ALICE)
- ◆ Draft de processus pour qu'un T2 sorte de WLCG
- ◆ FCC : doit-on déjà anticiper et admettre l'activité dans WLCG?
- ◆ En dec 2025, 20eme anniversaire de la signature du MoU WLCG, un événement organisé au CERN sur 2 jours



AI/ML

Increasing appetite in the community for infrastructures and platforms to support AI/ML activities.

- See for example [this presentation](#) at ECFA and generally the EuCAIF conference [material](#)
- A document is being prepared for the next JENA (ECFA, NuPECC, APPEC) meeting (April 2025)

A draft recommendation item from the JENA AI/ML work package:

4.1 Convene dedicated discussions with national research groups and funding bodies to assess and compare the feasibility of a **centralized large-scale GPU facility versus extended hybrid HPC infrastructures**, supported by working groups developing detailed implementation plans for both options, with the aim of accelerating the deployment of a scalable AI infrastructure.

02/12/2024

WLCG Overview Board

9



AI/ML

WLCG today is not equipped to support these activities

- At the level of infrastructure, only opportunistic access to GPUs
- At the level of platform, we do not provide the modern technologies that experts are used to
- At the level of use cases ... we do not know what they are and which resources they need

Time to make progress, I think...

- Should we form an initiative on this? Or? CERN is setting up a group to define the AI Strategy for its community

Note: analysis facilities, GPUs on WLCG for offline processing, benchmarking/pledging are all linked and partially overlapping subjects

02/12/2024

WLCG Overview Board

10

