

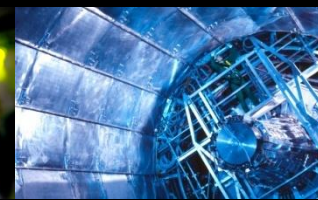
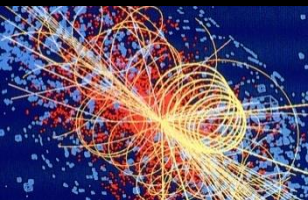
GDB Introduction

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GDB, January 10th 2018



Meeting details

- Summaries prepared by team of volunteers
 - Today: ...
 - Will be available at <https://twiki.cern.ch/twiki/bin/view/LCG/WLCGGDBDocs>
- Vidyo & mailing list monitoring
 - I am unlikely to check email during the day— please use the list.
 - Can someone in the room monitor that and Vidyo chat?

Today: Main topics

- CWP Status
- Workload Management update
- Container WG report
- WLCG Workshop forward look
- ARC update
- Cost models update
- OSG-NSF 2 factor & HPC issues

Upcoming GDBs

- February pre-GDB – HPC workloads
 - Note: this is after CernVM workshop
- February pre-GDB – exploiting GPUs
- Confirmed that March 2018 GDB will be co-located with ISGC in Taipei
 - shifted to March 21st
- July – moving to 19th
- October – moving to 17th

- Let me know if you have topics to bring to the GDB

Upcoming Meetings

- Cloud Share & Sync Service Workshop, 29th-31st Jan 2018, Krakow, Poland
 - <http://cs3.cyfronet.pl/>
- CernVM Users Workshop, 30th Jan – 1st Feb 2018, CERN
 - <https://indico.cern.ch/event/608592/>
- LHCOPN/LHCONE workshop 6th-7th March 2018, RAL, UK
 - <https://indico.cern.ch/event/681168/>
- ISGC 2018, 16th – 23rd Mar 2018, Taipei
 - <http://indico4.twgrid.org/indico/event/4/>
- 2018 WLCG Workshop & HSF Workshop, 26th– 29th Mar 2018
- HEPiX Spring 2018, May 14th – 18th, Madison, WI, USA
 - <https://indico.cern.ch/event/676324/>
- HTCondor Week 2018, May 21st – 24th, Madison, WI, USA
 - <https://indico.fnal.gov/event/15680/>
- CHEP 2018, 9th – 13th Jul, Sofia, Bulgaria
 - <http://chep2018.org>
- European HTCondor week, 5th-7th September, RAL, UK
- HEPiX Fall 2018, Oct 8th – 12th, Barcelona, Spain

- Anything I've missed, let me know & I'll add it to the slides.

Spectre and Meltdown security vulnerabilities

- 3 variants: CVE-2017-5753, CVE-2017-5715, CVE-2017-5754
- All sites should install available packages as soon as possible
 - Patched hosts need to be rebooted
- At this stage limiting user impact is recommended
- Early estimate: 1%-4% performance drop
 - Benchmarking WG will report in detail next month
- In case of virtualization, both hypervisor and VM must be patched
- CVE-2017-5715: There is no updated microcode for **many** CPUs
 - Situation changing rapidly (new microcode updates released this morning by Intel, not yet available in RedHat/CentOS/SL packages)
 - <https://cern.ch/security/advisories/spectre-meltdown/spectre-cpu-microcode-checker.sh>

WLCG System Performance Working Group

- **Reminder of aims:**
 - Develop methodologies and tools to characterize the LHC workloads
 - Better understand their interaction with the computing infrastructure
 - Calculate their cost in terms of resources and expenditure
 - Assist experiments, sites and the WLCG project in the evaluation of their future choices.
- **Started in November 2017, it has about 30 active participants representing experiments and sites**
 - Several tasks already defined and people self-added and contributing in different areas
- **Apologies: today's contribution has been postponed to a future GDB, where more detailed status of the activities will be provided.**
 - Participation open to everybody interested! (contact M. Schulz, A. Sciabà or J. Flix)

CernVM Users Workshop in 2018

30 January – 1 February 2018 @ CERN

<https://indico.cern.ch/e/cvm18/>

Guest Speakers:

- Miklos Szeredi (Red Hat), the author of FUSE and OverlayFS
 - Saeed Noursalehi (Microsoft),
core developer of the Git Virtual File System (GVFS)
 - Michael Bauer (RStor), core developer of Singularity
 - Justin Cormack (Docker), core developer of LinuxKit
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pre-GDB on HPC Resource Utilization

2 February 2018 @ CERN

<https://indico.cern.ch/event/651338/>

Goal: Create common forum for issues related to LHC jobs on HPC
Participation from, e.g., NERSC, CSCS (Swiss HPC Center), SuperMUC

Questions?