Domenico Giordano (CERN) Randall Sobie (U Victoria)

WLCG HEP-SCORE Deployment Task Force
Meeting on 15 Feb 2023 (teleconference)
Notes

Indico event page: https://indico.cern.ch/event/1209421/

Welcome, note-taking, notes from the previous meeting, matters arising

The minutes from the previous meeting are approved.

LHCb Workload status (Andrea Valassi)

Frantic work by LHCb to get the workload ready. The same code base will be used for x86 and ARM: it was not sure this would happen but it did. No release available on CVMFS today, expected very soon, in a couple of days. This is a needed step to trigger the build of the LHCb workload container in the HEP workload infrastructure.

The TF agrees that we should wait for the LHCb workload

- **Action Item 1**: TF to send a short report to the MB.
    - Update on action item 1: Domenico and Randy sent a short status report to Simone Campana
- **Action Item 2**: Andrea to send another report to the TF/MB when the LHCb workload is ready
    - Update on action item 2: by Feb 17 the LHCb code base was released, the workload was packaged in a docker container, and the information was shared with the task force (see email of Andrea to the TF). The validation of the workload then started

Validation of the other workloads (Domenico Giordano)

Validation done for all the other workloads (except LHCb) on 8 servers at CERN (8 different CPU models)
Some failures on ALICE were noticed on large core-servers (ARM), due to contention problems with socket number assignment. ALICE Experts have been informed, a new version v2.1 that fixes the problem has been built.

Any other business

Xiaofei on Juno workload (showed slides not attached to agenda page yet)
The Juno workload can be updated to include fixes that avoid problems reported in the past.
1. Reduce memory usage. Now the total memory usage is less than 2GB.
2. Exclude from the reported event throughput the initial time of the Juno event processing.
3. Use the latest Juno software.
It was asked if these changes are only for the benchmark workload or if they will also be part of the production software, in order to keep the workload representative of the production software. Xiaofei will check with the software team of Juno. Updates are planned for a future meeting

Next milestone is to start running a "complete" x86/ARM HEPscore in 2 weeks with the goal of releasing for production by April 1

Next meeting 1 March 2023

Annex: Attendance

Present:
Giuseppe Andronico (INFN)
Domenico Giordano (CERN - chair)
Michel Jouvin (IJCLab)
Walter Lampl (U Arizona)
James Letts (UCSD)
Gonzalo Menendez Borge (CERN)
Stefano Piano (INFN Trieste)
Danilo Piparo (CERN)
Oxana Smirnova (U Lund)
Randall Sobie (U Victoria)
Andrea Valassi (CERN)
Yan Xiaofei (IHEP)

Apologies:

Helge Meinhard (CERN)
Tommaso Boccali (INFN Pisa)
Matthias Schnepf (KIT)