Domenico Giordano (CERN) Randall Sobie (U Victoria)

WLCG HEP-SCORE Deployment Task Force
Meeting on 29 March 2023 (teleconference)
Notes

Indico event page: https://indico.cern.ch/event/1265409/

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

The minutes from the previous meeting are approved.

Status of the measurement campaign (Gonzalo Menendez Borge)

See slides for plots and tables.
Good progress in collecting data from new sites and CPU models. Gonzalo provides a list of desiderata CPU models that have been benchmarked in the past with HS06: call for sites having them available to run also HS23.

Gonzalo covers in the slides also the item of the accessibility of the Grafana dashboards exposing the benchmark data of all sites. Besides the interest of making the dashboards' access open to the whole WLCG community, the accessibility of these dashboards has implications on confidentiality of the CPU models deployed at sites. The TF should provide recommendations about the level of accessibility.
Gonzalo highlights the possibilities and limitations of the current Grafana deployment at CERN, and proposes to make the Grafana dashboards public to any authenticated user via SSO limited to CERN accounts. The public views will include few summary tables, the other dashboards will be in private folders accessible only via inclusion in an authorized list. This is an action to be done per user because egroup support is missing.

Feedback from Michel, Matthias:
- Concerns are raised about the requirement of using a CERN account to access the dashboards.
- Moreover, the accessibility to the full details should be limited to the community deeply involved in the benchmarking activity and not to the whole WLCG community. Site managers may be not comfortable to publicize details in the dashboards to a number of people. Sensitive information should be anonymized.
- Understand that the number of people to be added manually can make this procedure heavy: it should be limited to the sites running benchmarks.

Domenico: GGUS ticketing system is being established for the user support on topics related to benchmarking. Site managers in need of feedback about benchmarking will open a ticket in GGUS. An use case is to have the DN accepted for the publishing results in the DB. At the same time the person could be added to the access list of Grafana.

Clear message: keep public results separate from the detailed dashboards.

(**editor note**: *After feedback received in this meeting and in the WLCG Operation Coordination of April 6, a different approach is being considered for the public results: the results publicly visible, with limited details about sites, will be pushed into the official website https://w3.hepix.org/benchmarking.html as currently done for HS06. The push procedure can be automated.*)

Update Analysis of HEPscore23's Workloads (Ladislav Ondris)

See slides.
Updated the plots of the HEPscore23 (HS23) workloads vs HS06: more CPU models are present. The table with the figure-of-merit (FOM) values is also updated with the available statistics. The overall trend seen in the previous analysis is confirmed.

Plot HS23/HS06 vs year of CPU release shows the evolving performance of the HEP workloads on new CPU models.
Studies of HS23/HS06 vs memory/core are also shown. Some of the benchmarked servers seem to have less memory/core than the standard requirement of 2 GB/core.

Michel suggests removing entries that do not fulfill the requirements.
Andrea comments that the memory value could not be the cause of the lower score. Why are the new workloads better on new models? It's an interesting topic to investigate, but could require a lot of time.

Document HEPscore procedures (Domenico Giordano)

No slides. Document available on link posted to the TF list.
(**editor note**: a public *draft version* of the document has been presented to the GDB of *12/04/2023*)

Domenico shows the latest version of the draft document. All the comments have been clarified and/or included. What remains to be added is the GGUS mention. The accounting considerations in section 3. need to be consolidated. Julia will work on them.
The document should be ready in a few weeks time.

Any other business

Next meeting 19 April 2023

Annex: Attendance

Present:
Domenico Giordano (CERN - chair)
Michel Jouvin (IJCLab)
Andrew Melo (Vanderbilt U)
Gonzalo Menendez Borge (CERN)
Gonzalo Merino (PIC)
Ladislav Ondris (CERN)
Matthias Schnepf (KIT)
Oxana Smirnova (U Lund)
Andrea Valassi (CERN)