Minute of the meeting

Date: January 17th, 2022

Participants

EUROfusion: France Boillod-Cerneux, Jacques David, Gilles Fourestey, Roman Hatzky, Denis Kalupin, Serhiy Mochalskyy, Michal Konrad Owsiak, Francois Robin
CINECA: Susana Bueno, Alessandro Marani

Subjects discussed

We have reviewed events announced to all users via hpc-newsletter that have affected production since December 15 until January 14.

Ticket revision

We have quickly reviewed ticket escalated to Intel support, for which we expect the bug fix to be released on Intel oneAPI 2022.0 version, and escalated to NVIDIA support, for which we have not received updates yet, we will push.
Other tickets were briefly reviewed and discussed, with no particular observations raised.

Ticket statistics

We have reported and reviewed information collected for all tickets received, on both the first and second level support queues, since December 13 until January 14.

Module usage on Marconi cluster

We reported data for the month of December; it refers to the module usage of those batch jobs submitted by EUROfusion users/accounts to Marconi-SKL partition.

Sanity checks on Marconi and Marconi100 clusters

Sanity checks were performed during maintenance and production on MARCONI and during production only on MARCONI100, and the results were shown during the Ticket Meeting. All the tests proved that the situation is stable and there are no significant problems in any of the tests performed. There were a couple of nodes of MARCONI that showed half of the expected performance values, which sounded strange because of the automatic procedure that detects this kind of nodes every 15 minutes. CINECA will discuss with the system administrators to provide statistics about how many of those nodes are detected in a month.

Likwid & hpcmd tools

We have reported the state-of-the-art with hpcmd tool. We showed new metrics collected for jobs, also through Grafana interface. We have included new events in the configuration file to be used in the perf command executed by the hpcmd daemon and that now allow to collect and provide aggregated GFLOPS information for jobs, whereas we have shown that is not possible to collect information required for the calculation of the Memory Bandwidth as required perf events are not available with the present the kernel version of Marconi SKL compute nodes. We have also reported quick tests performed on Galileo100 cluster (Cascadelake compute nodes that have a microarchitecture similar to SKL nodes) that show that these required events for the memory bandwidth calculation should be available with a more recent kernel version in place.

Next ticket meetings

The scheduled dates for next ticket meetings are:

TM-61: Monday, February 14th, 2022 at 10:00
TM-62: Monday, March 14th, 2022 at 10:00
TM-63: Monday, April 11th, 2022 at 10:00