

# Minute of the meeting

Date: May 16th, 2022

## Participants

*EUROfusion*: Jacques David, Gilles Fourestey, Roman Hatzky, Serhiy Mochalskyy, Michal Konrad Owsiak

*CINECA*: Susana Bueno Minguez, Alessandro Marani, Nitin Shukla

*Intel*: Giacomo Rossi

## Subjects discussed

We have reviewed events announced to all users via hpc-newsletter that have affected production from April 6 until May 11.

### *Ticket revision*

We have reviewed tickets escalated to NVIDIA support. For one of them (#20303), EUROfusion communicated that it could be closed since the analysis reported in the ticket is complete. Other tickets were briefly reviewed and discussed, with no particular observations raised. For ticket #25581, about a run performed on 1024 nodes of Marconi, we discussed briefly the outcome of such tests.

### *Ticket statistics*

We have reported and reviewed information collected for all tickets received, on both the first and second level support queues, from April 7 until May 11.

### *Module usage on Marconi cluster*

We provided data for the month of March; 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 both MARCONI and 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. For production tests on MARCONI100 we weren't able to provide graphs, but the results were good nonetheless.

### *Power capping on Marconi*

No updates on this topic, but the system administrators of CINECA are gathering additional data to improve their procedures that detect and uncap nodes with power capping on.

### *Starwall benchmarks*

We have performed a similar benchmark at the beginning of May as the one reported by Serhiy. We obtained the same results. Additional efforts are needed to understand the discrepancy between execution times in running StarWall benchmarks. Further steps consist in gathering more statistics of mpi calls using `#export I_MPI_DEBUG=5` and `#export I_MPI_STATS=ipm` (thanks to Serhiy for the suggestion). This will provide indications if the outcome has to do with the mpi library. We will interact with Giacomo Rossi from Intel who can help to further understand this problem.

### *Likwid & hpcmd tools*

As agreed during last OC meeting we have discussed about a preliminary plan to test the hpcmd tool in a bigger number of compute nodes (as at present is only available on 4 dedicated compute nodes) with the final purpose of making it available on the whole cluster in production. This plan foresees in a first phase the installation of the hpcmd tool in the 16 nodes available on the skl\_fua\_dbg partition, that will be then extended to 128 nodes for a short period of time of about 2 days so to allow extensive tests on a bigger number of nodes. This plan will be discussed internally in CINECA with the sys admins, we will give updates to TM members about it to start the planned activities.

*Other topics*

Nothing to report.

**Next ticket meetings**

The scheduled dates for next ticket meetings are:

TM-65: Monday, June 13th, 2022 at 10:00

TM-66: Monday, July 4th, 2022 at 10:00