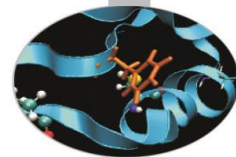


Outline

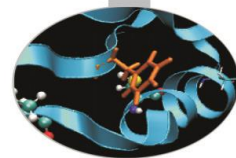
- MARCONI: Sanity checks launched during production on January and maintenance on February (linpack, stream)
- Statistics on the power capping detection on the nodes of MARCONI
- MARCONI100: Sanity checks on GPU (dgemm, stream, nvlink, p2p) during maintenance on January and production on February

MARCONI – January 2022

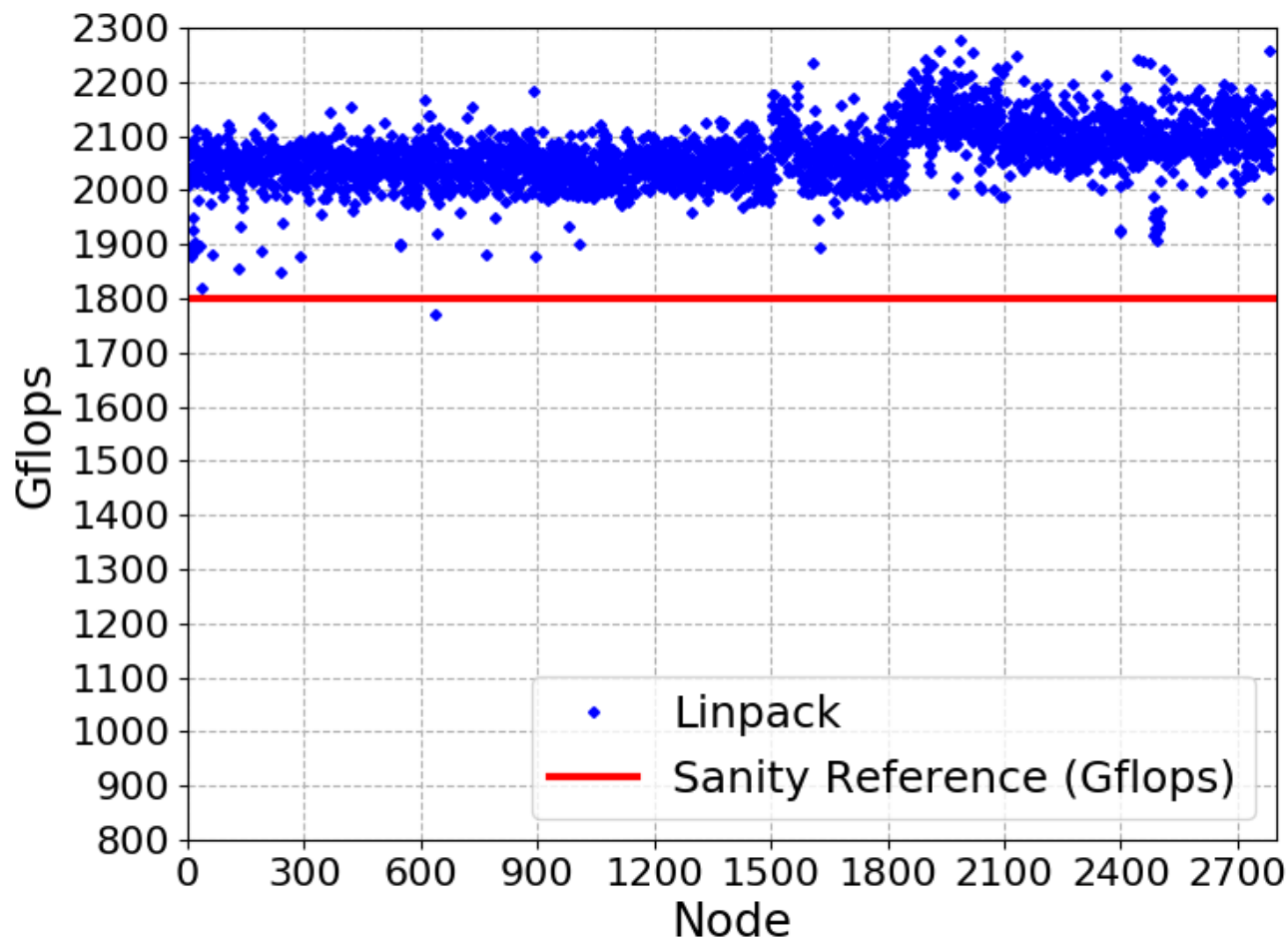


- Tests were performed during production and launched on January 28th
- Tests: linpack and stream on each single node of SKL
- 2788 were tested in time for this Ticket Meeting (only EF nodes tested)
- No Switch-level Linpack tests with production runs
- Slow nodes have been removed from production for investigation and fixes

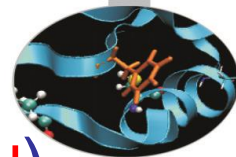
Linpack SKL



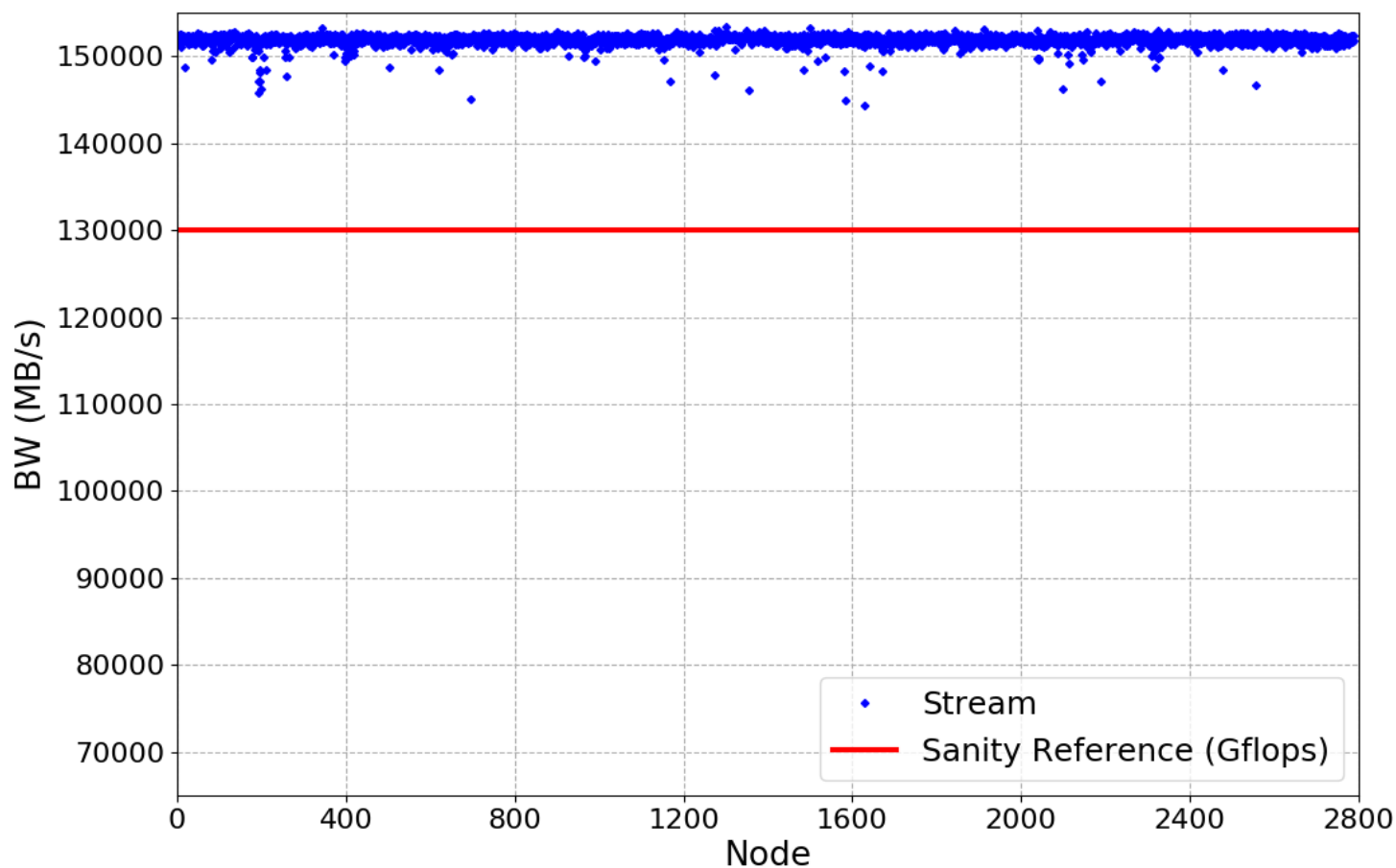
- Sanity threshold: 1800 Gflops (one slow node found)



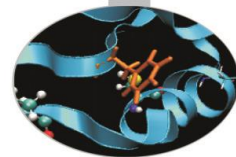
Stream SKL



- Sanity threshold: 130000 MB/s (no slow nodes found)

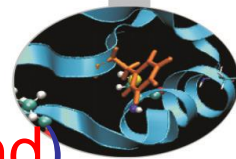


MARCONI – February 2022

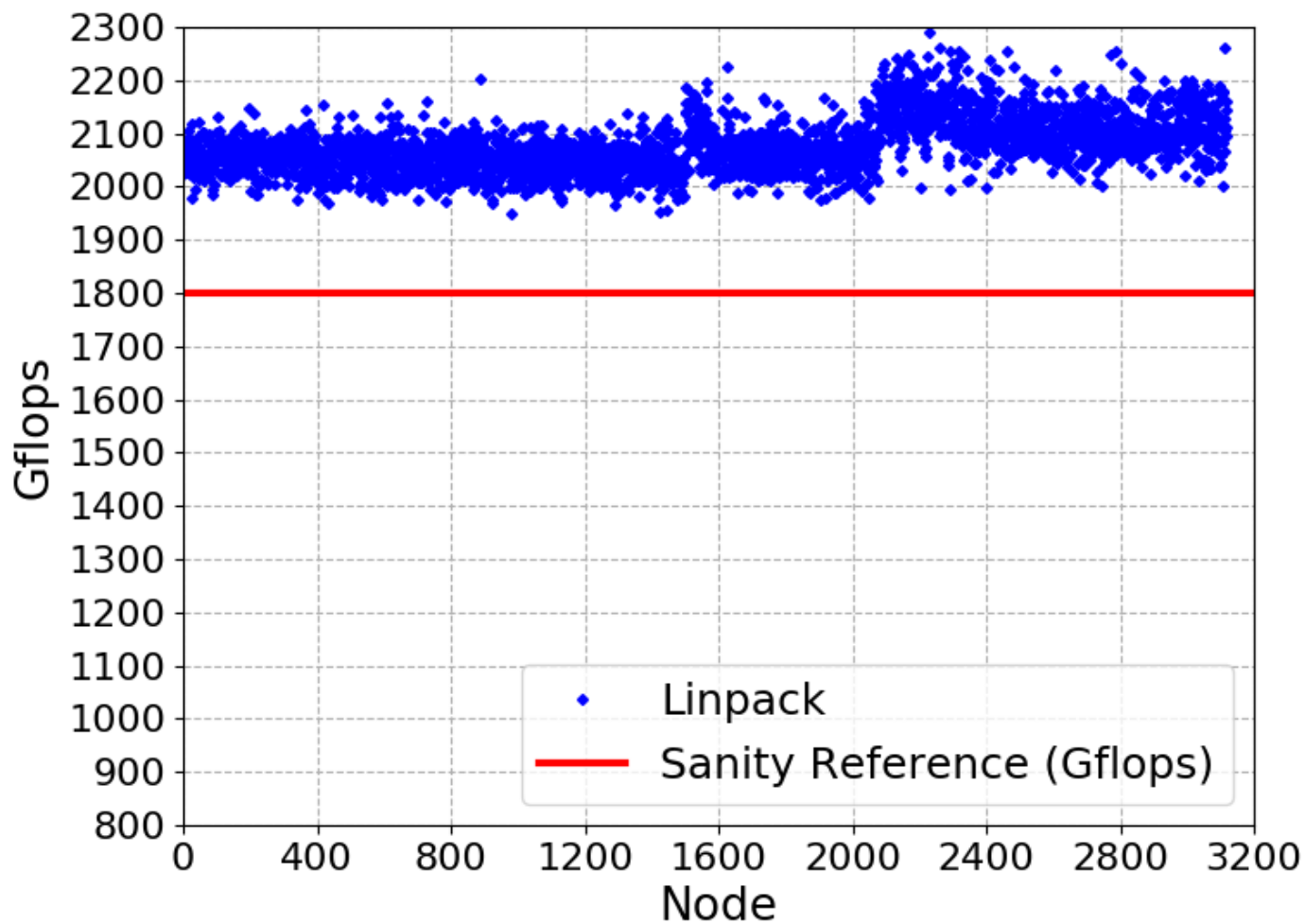


- Tests were performed during maintenance on February 9th
- Tests: linpack and stream on each single node of SKL
- Switch-level Linpack tests were performed during maintenance
- Slow nodes have been removed from production for investigation and fixes

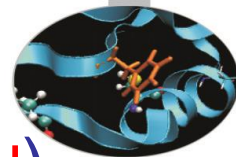
Linpack SKL



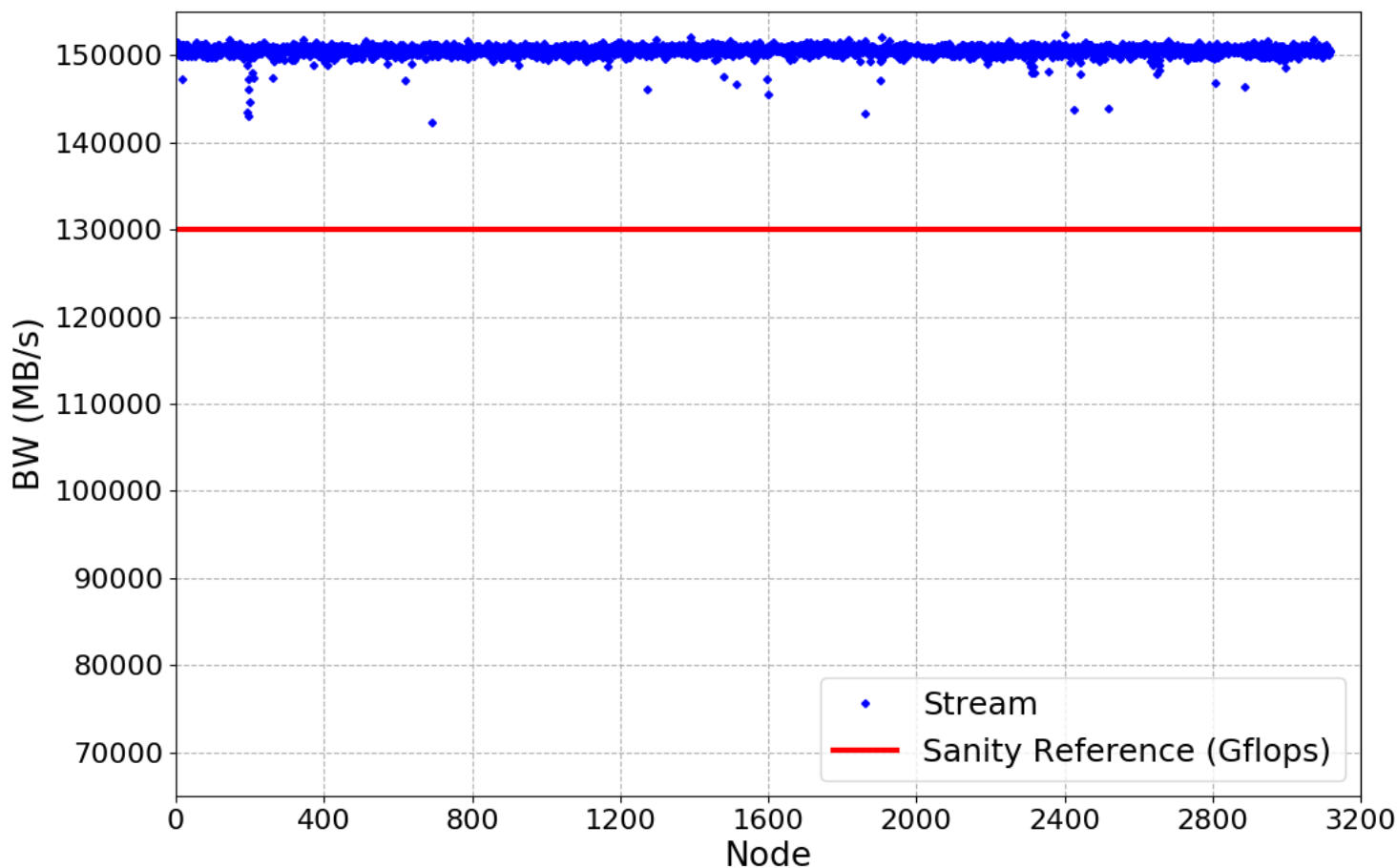
- Sanity threshold: 1800 Gflops (no slow nodes found)



Stream SKL

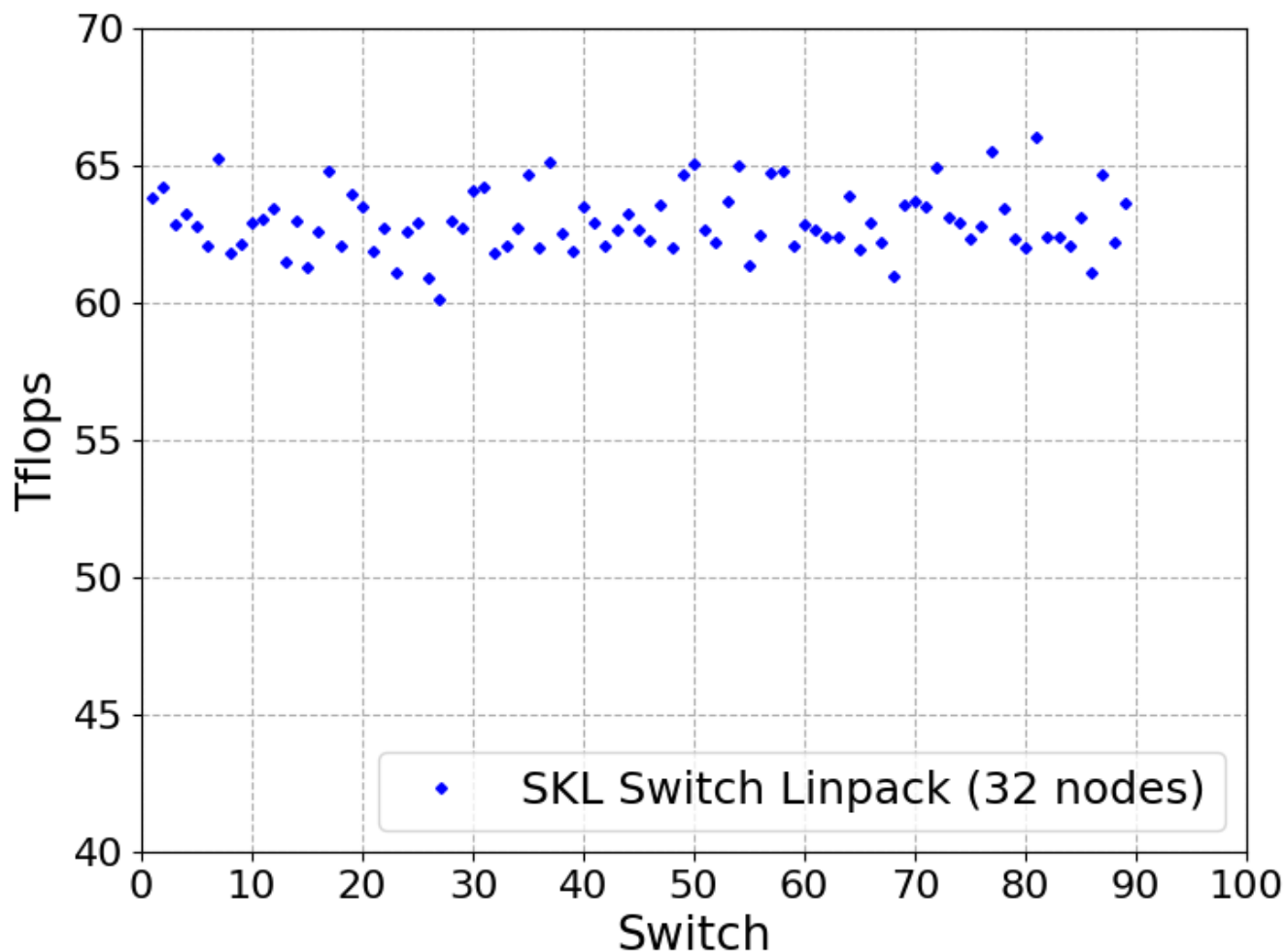
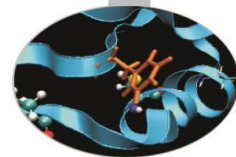


- Sanity threshold: 130000 MB/s (no slow nodes found)



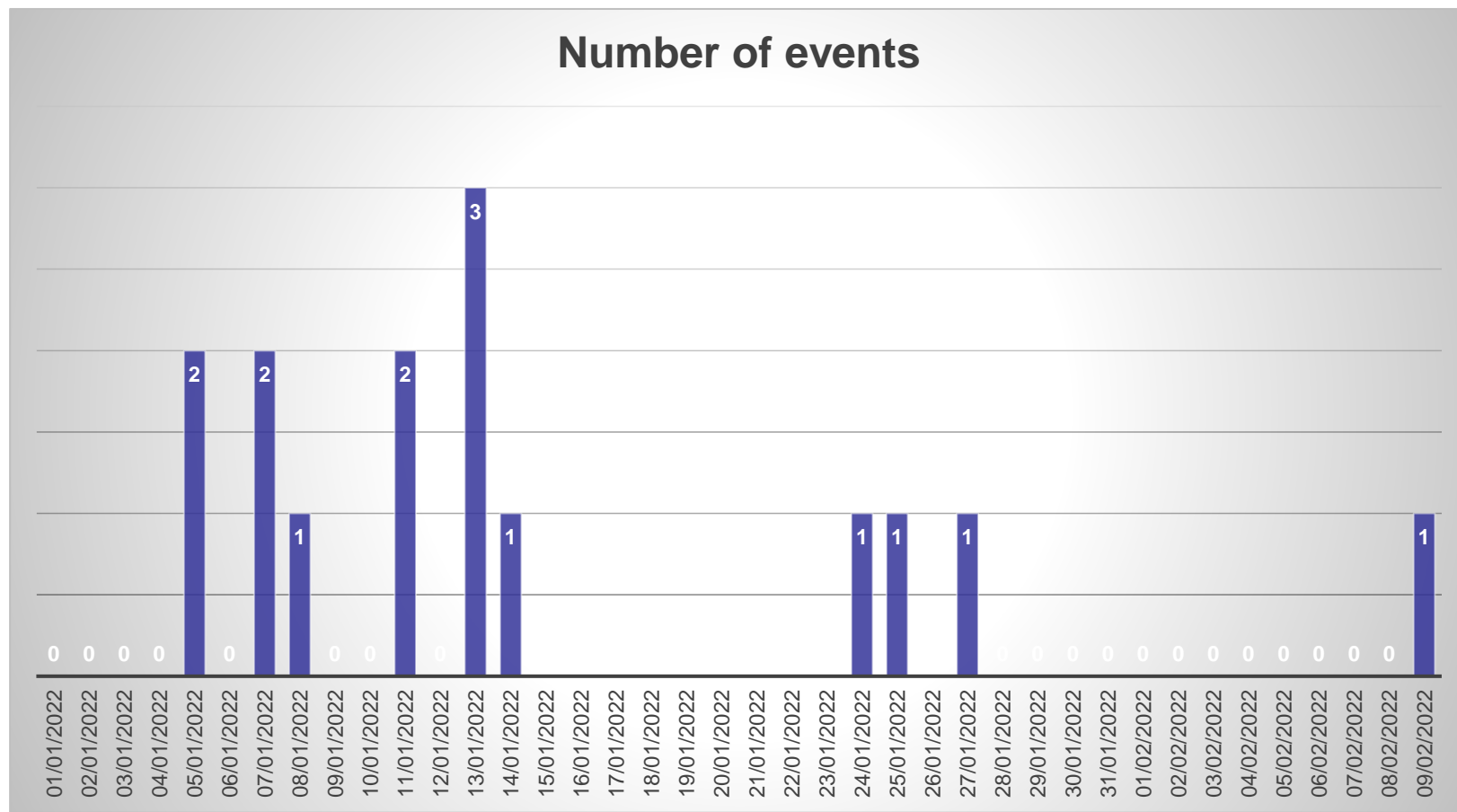
Switch-level Linpack SKL

- 89 switches tested
- Overall stable performance

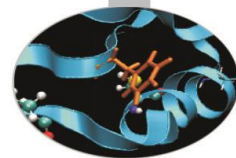


Power capping events on MARCONI

- **15 nodes** with power capping on notified from 01/01/22 to 09/02/22
- An event is registered when the node has a frequency below **998MHz**
- Tests needed to see how it compares to the Gflop/s measured by our sanity checks

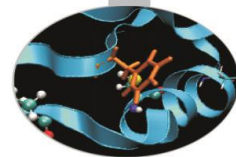


MARCONI100 – January 2021

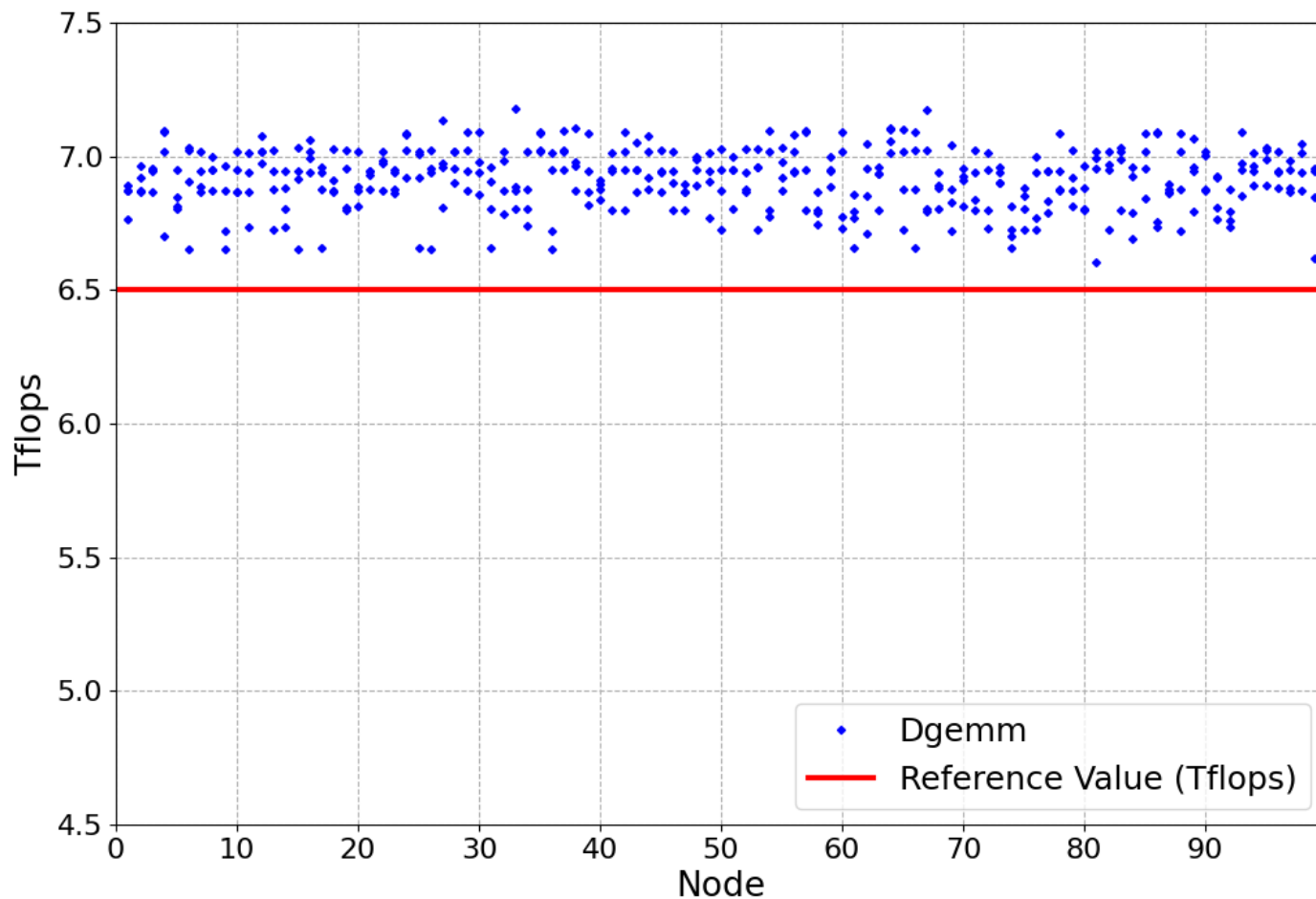


- Sanity checks were performed during maintenance and launched on January 25th
- Tests: dgemm, stream-GPU, nvlink and p2p on each single node of M100
- Results from the nodes of EUROFusion partition are shown

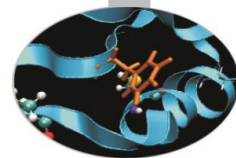
Dgemmm



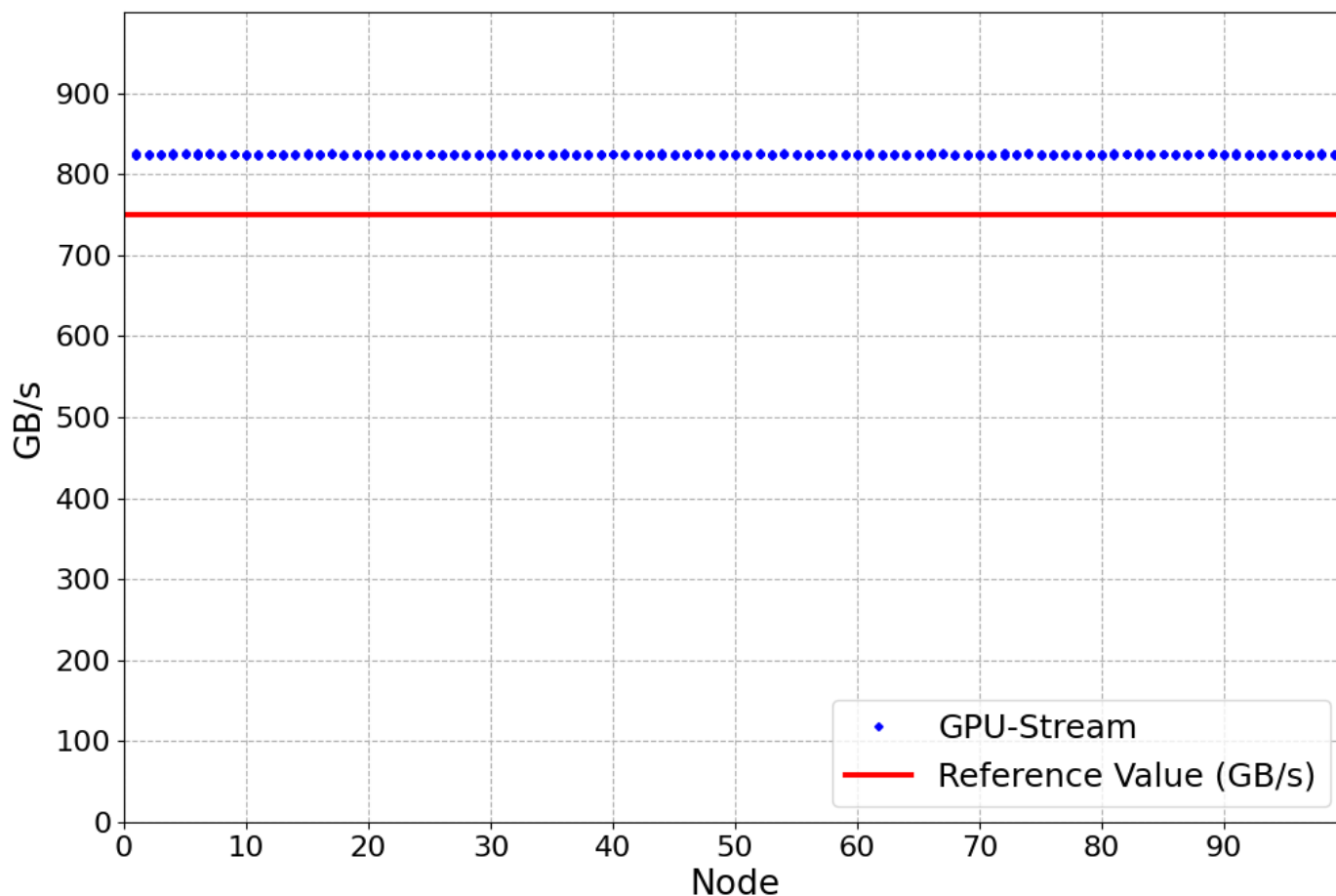
- Sanity threshold: 6.5 Tflops (no slow GPU found)



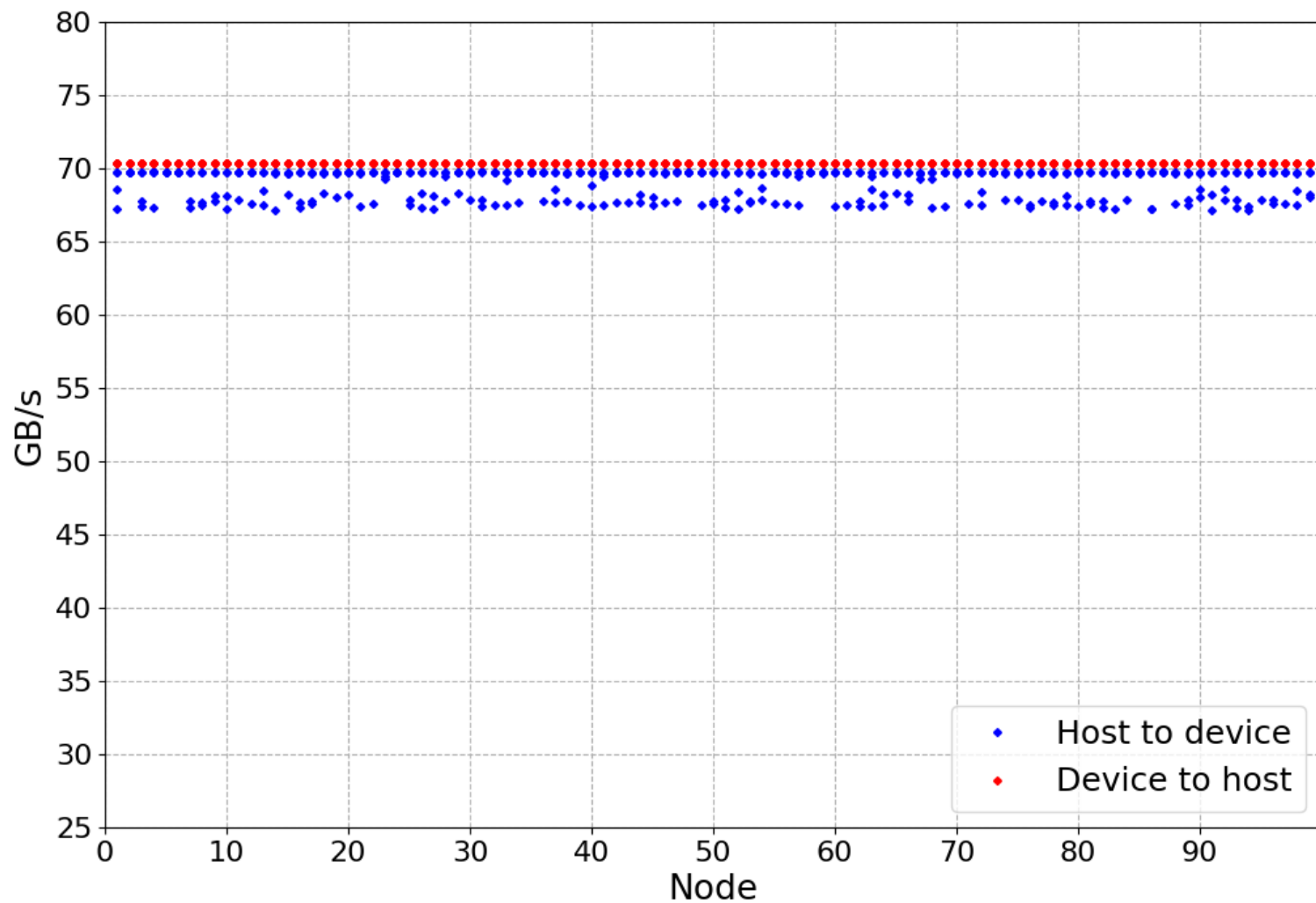
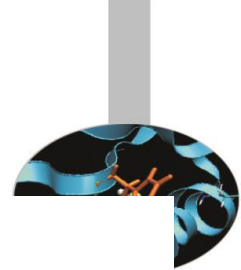
Stream-GPU



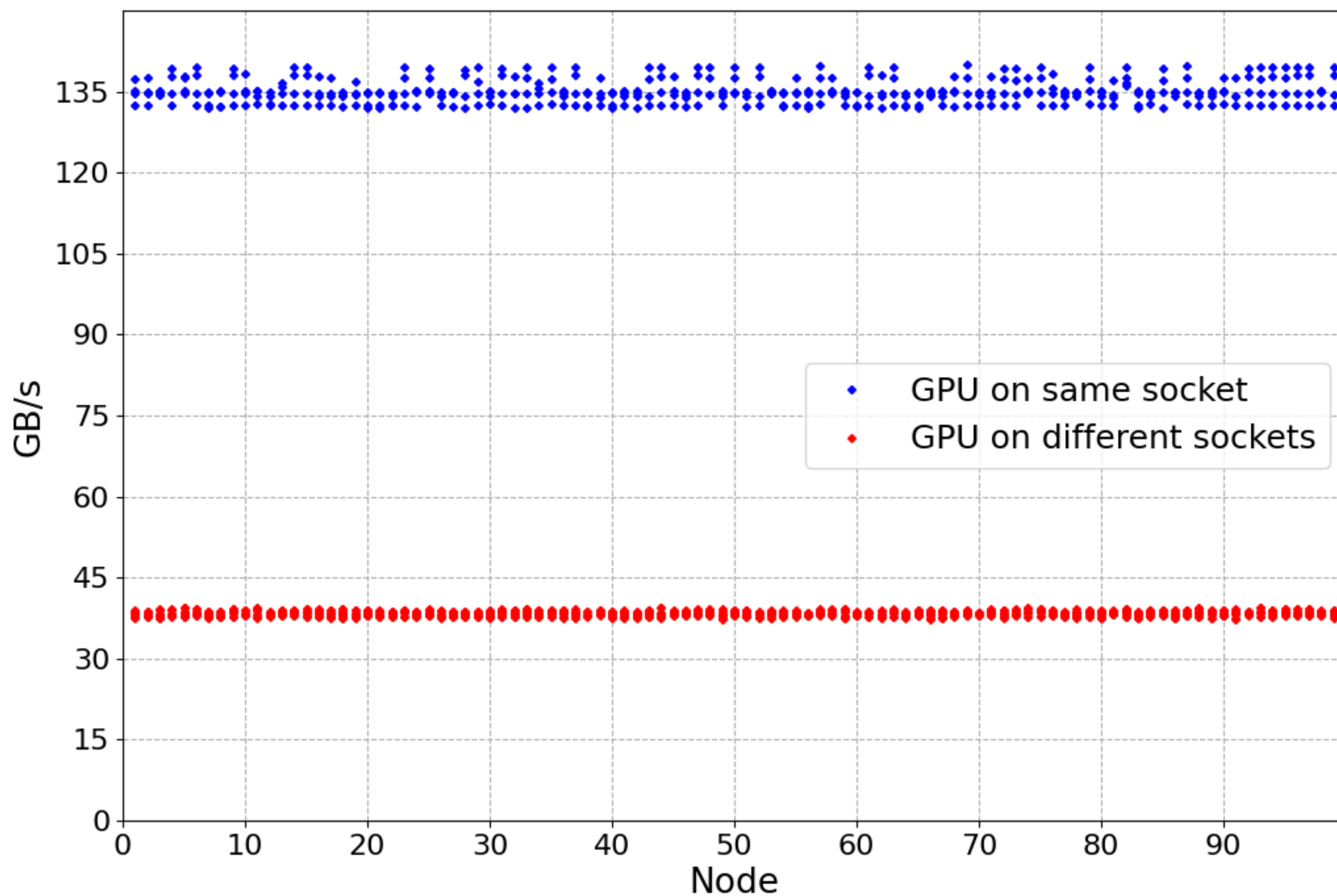
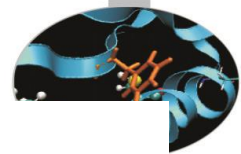
- Sanity threshold 750 Gb/s (no slow GPUs found)



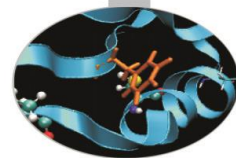
Nvlink-GPU



P2P-GPU

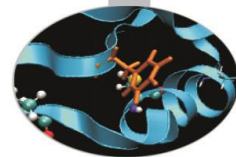


MARCONI100 – February 2021

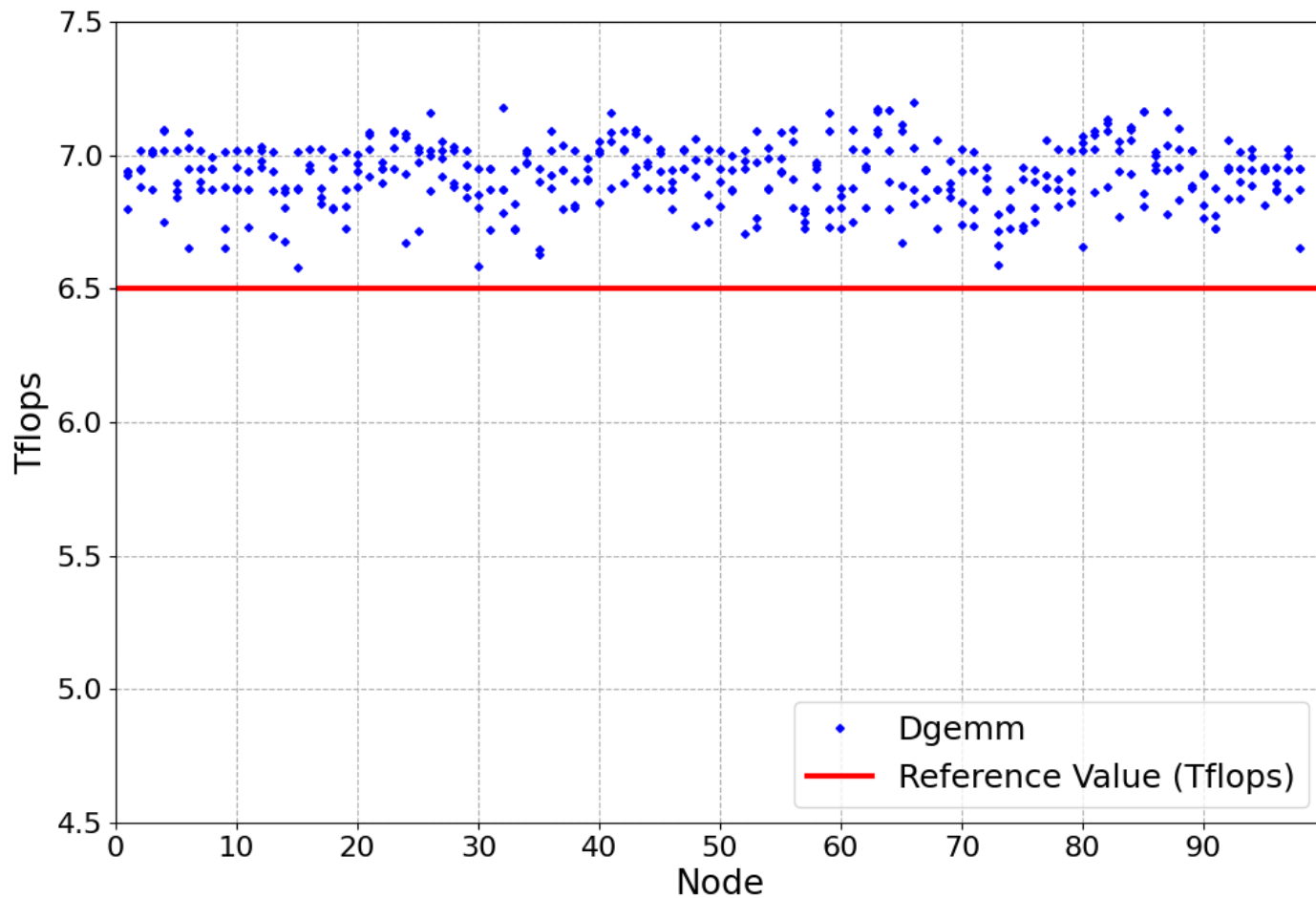


- Further sanity checks were performed during production and launched on February 08th
- Tests: dgemm, stream-GPU, nvlink and p2p on each single node of M100
- Results from the nodes of EUROFusion partition are shown

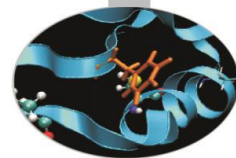
Dgemmm



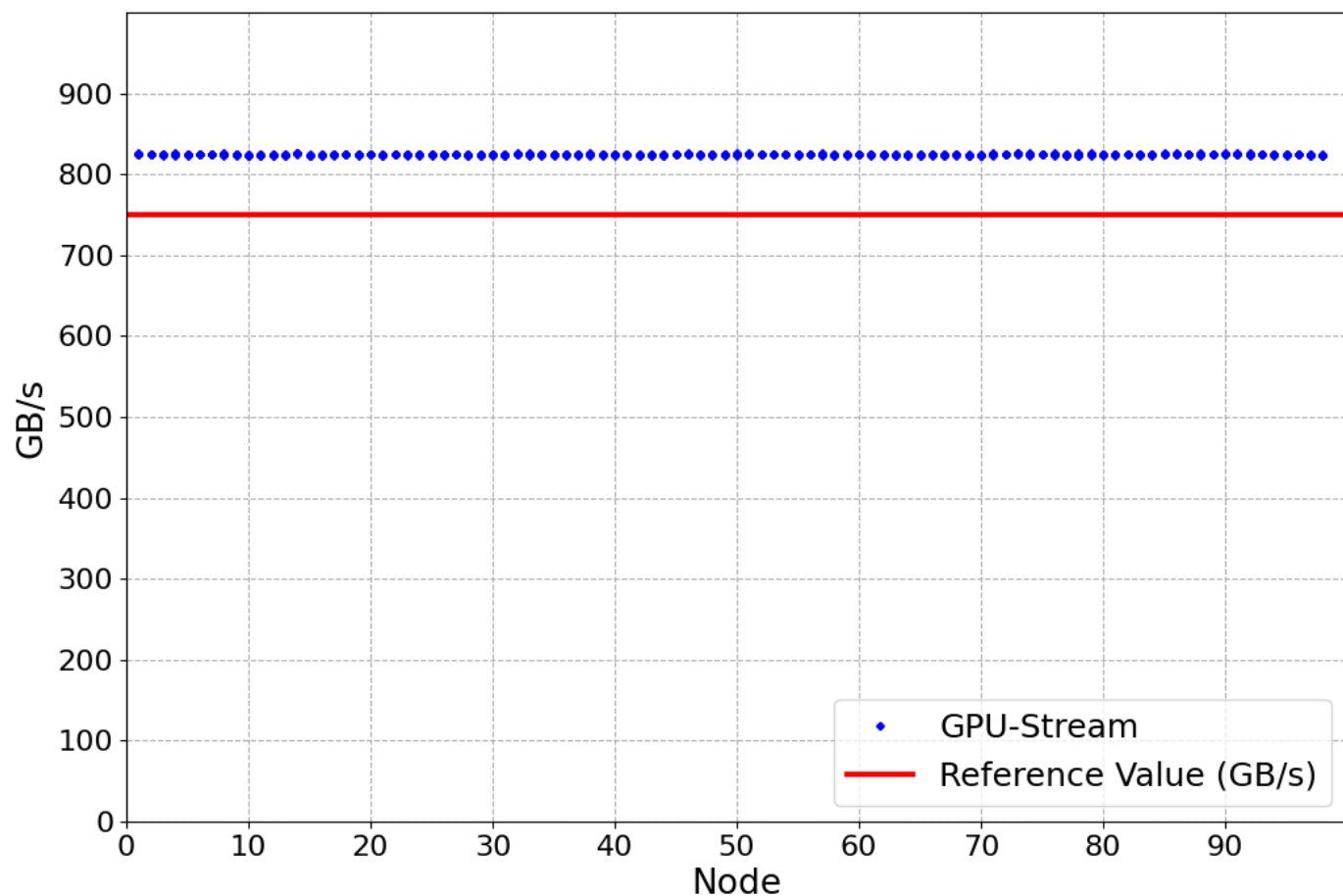
- Sanity threshold: 6.5 Tflops (no slow GPU found)



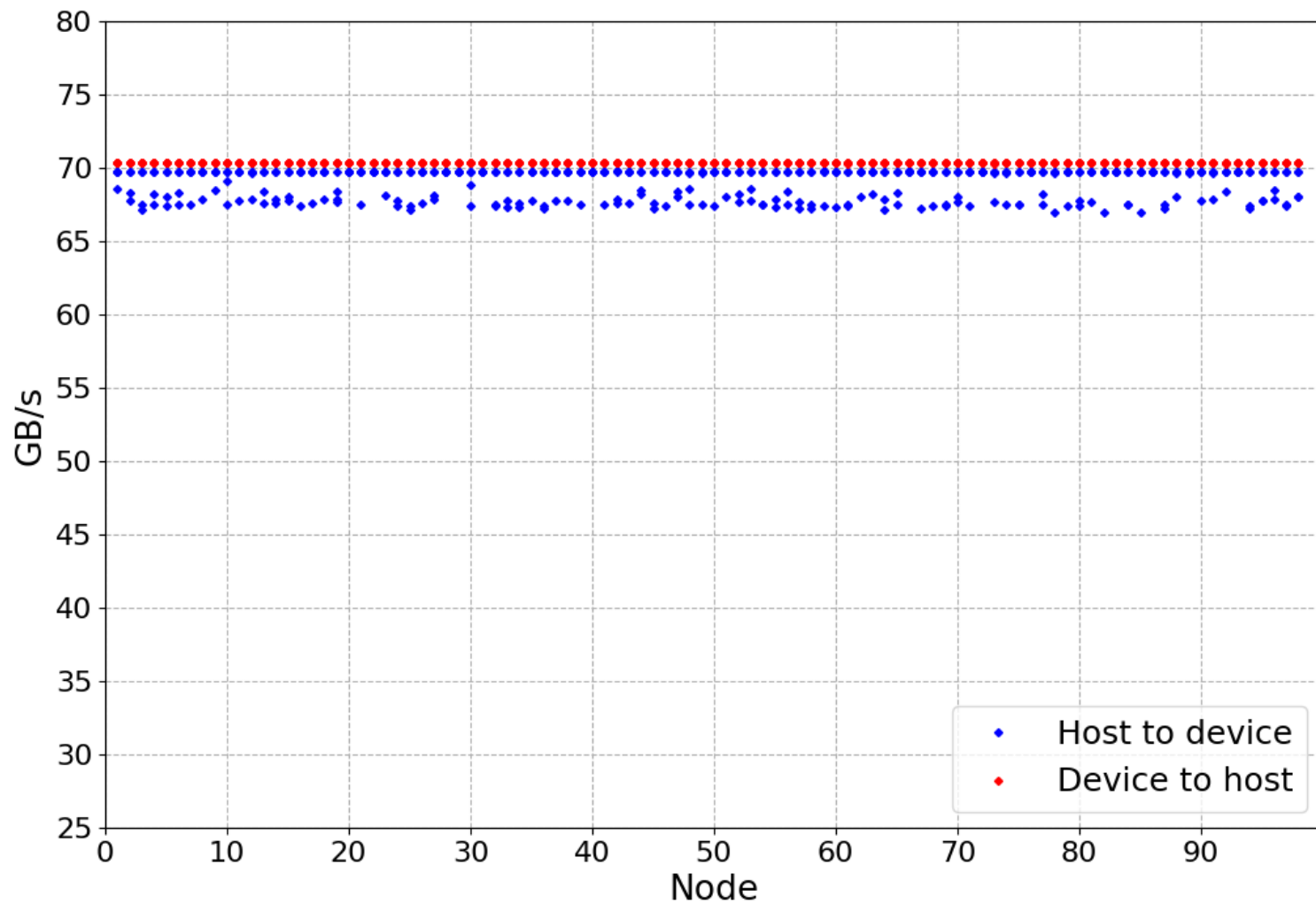
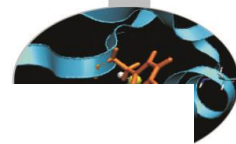
Stream-GPU



- Sanity threshold 750 Gb/s (no slow GPUs found)



Nvlink-GPU



P2P-GPU

