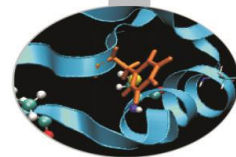


Outline

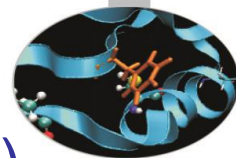
- MARCONI: Sanity checks launched during maintenance and production on December (linpack, stream)
- MARCONI100: Sanity checks on GPU (dgemm, stream, nvlink, p2p) during maintenance and production on November and December

MARCONI – December 2021

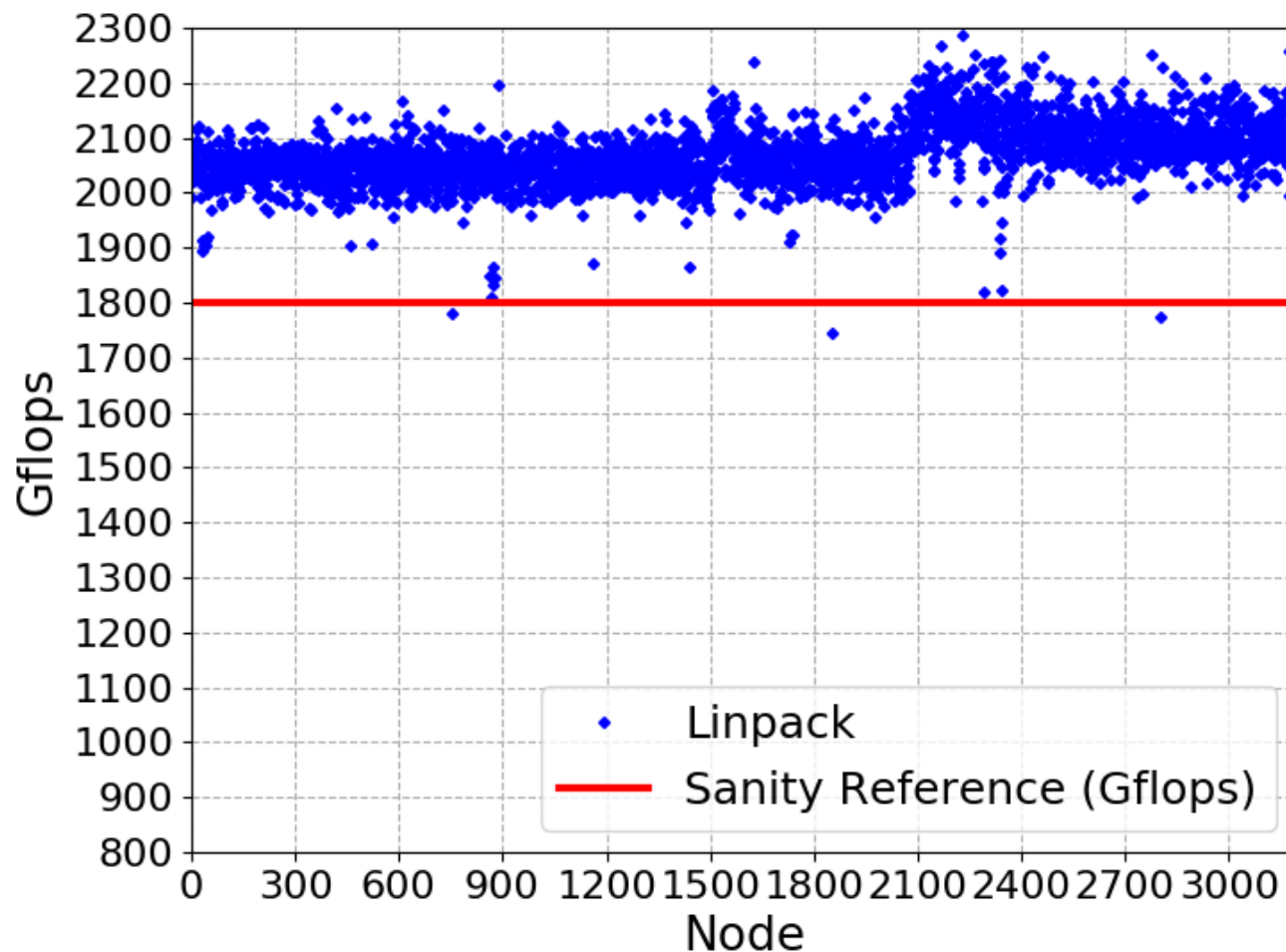


- Tests were performed during production and launched on December 1st
- Tests: linpack and stream on each single node of SKL
- 3183 were tested in time for this Ticket Meeting
- No Switch-level Linpack tests with production runs
- Slow nodes have been removed from production for investigation and fixes

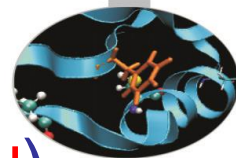
Linpack SKL



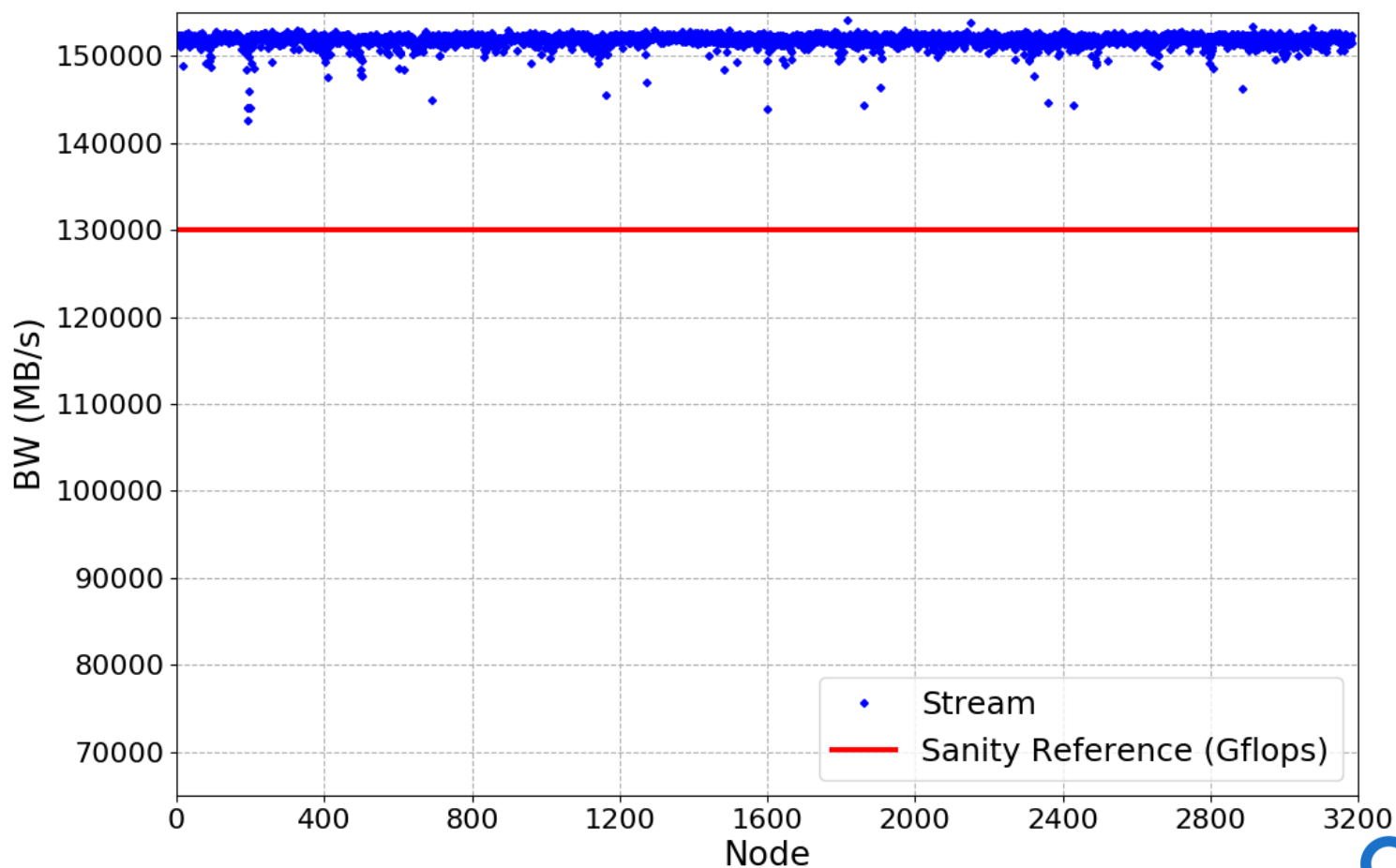
- Sanity threshold: 1800 Gflops (three slow nodes found)



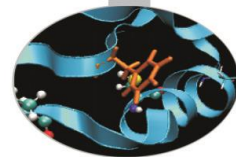
Stream SKL



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

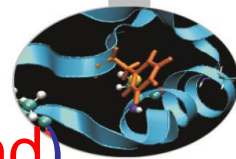


MARCONI – December 2021

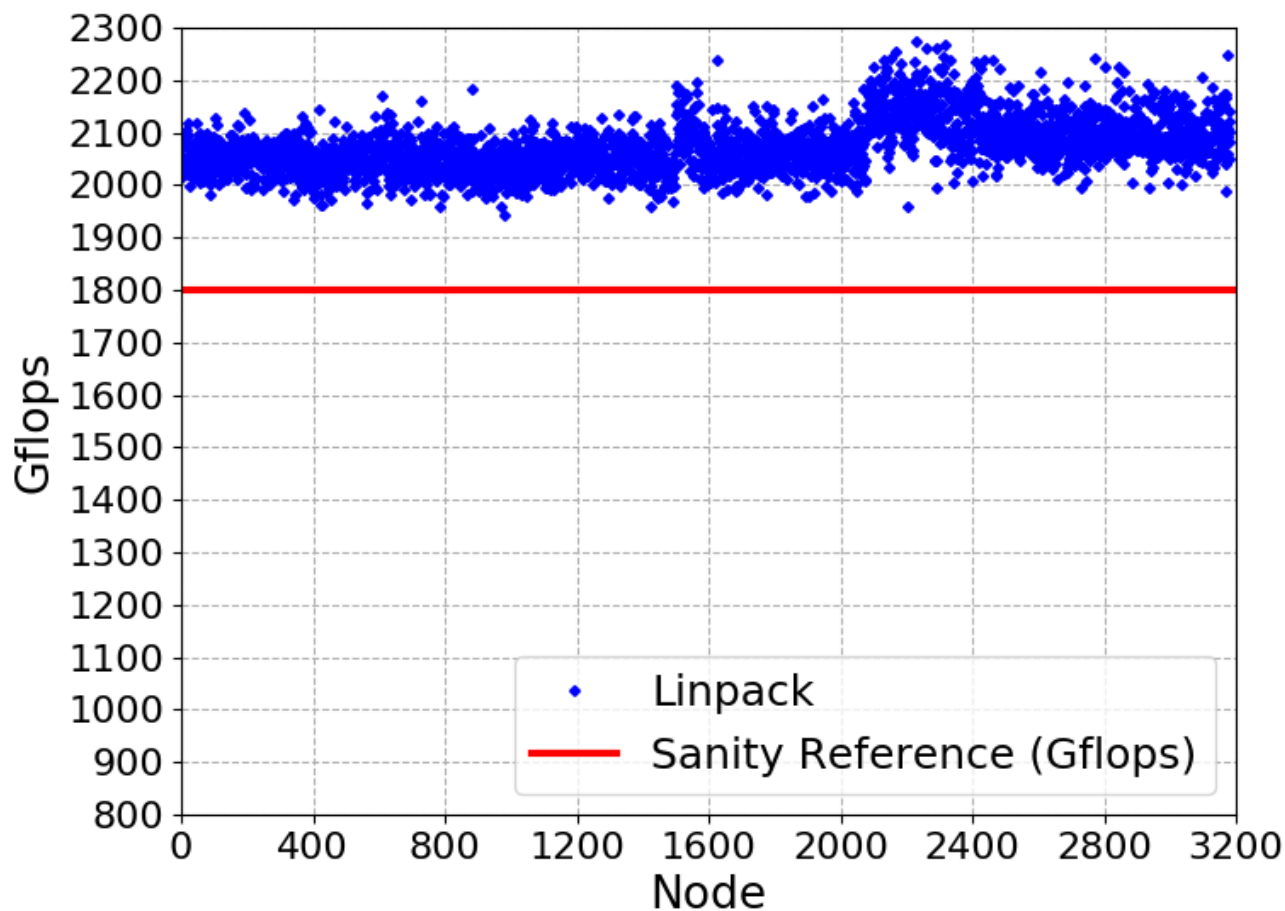


- Tests were performed during maintenance on December 14th
- Tests: linpack and stream on each single node of SKL
- Switch-level Linpack tests were performed during maintenance
- Slow nodes have been removed from production for investigation and fixes

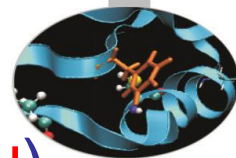
Linpack SKL



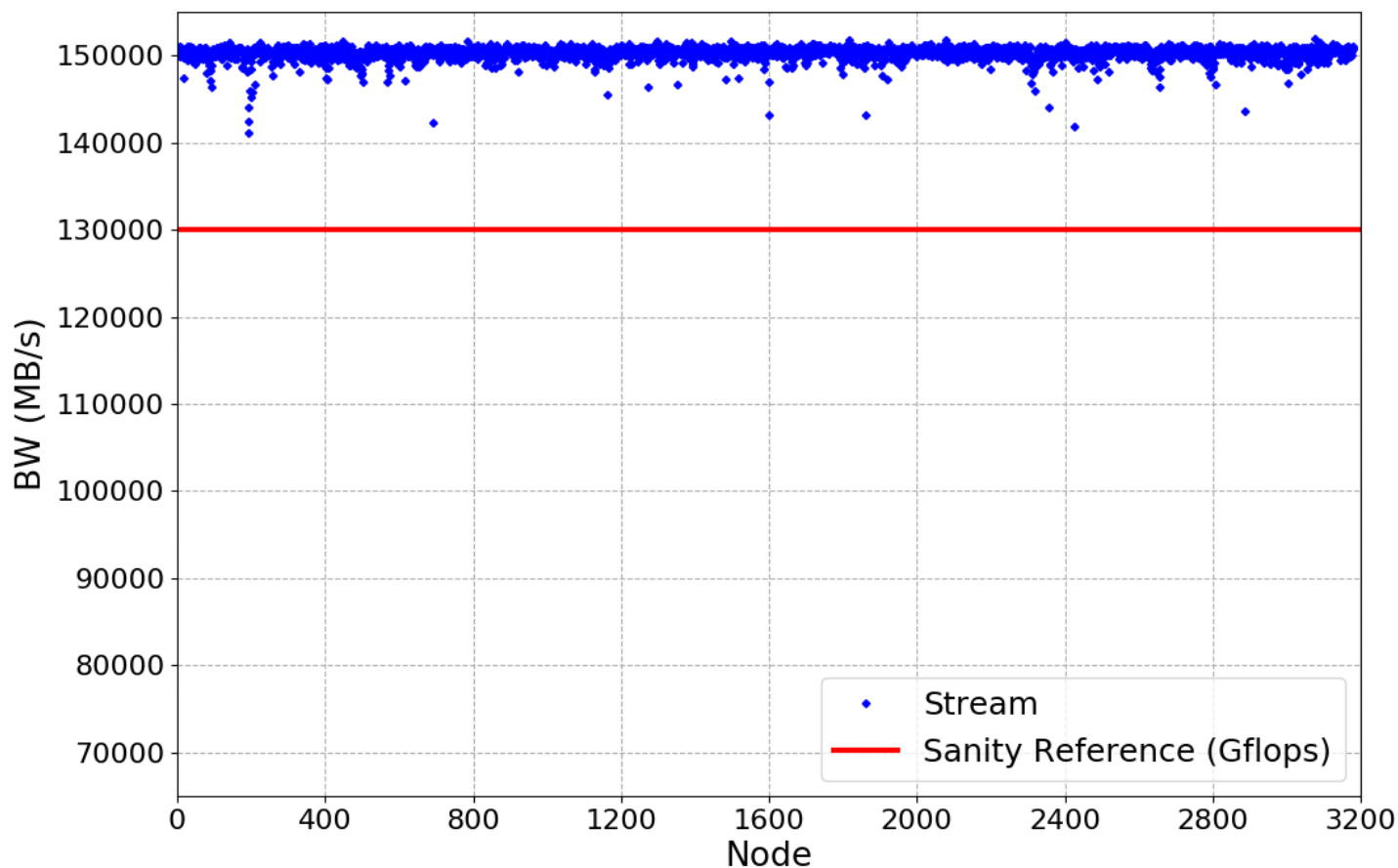
- Sanity threshold: 1800 Gflops (no slow nodes found)

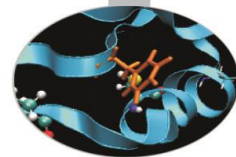


Stream SKL



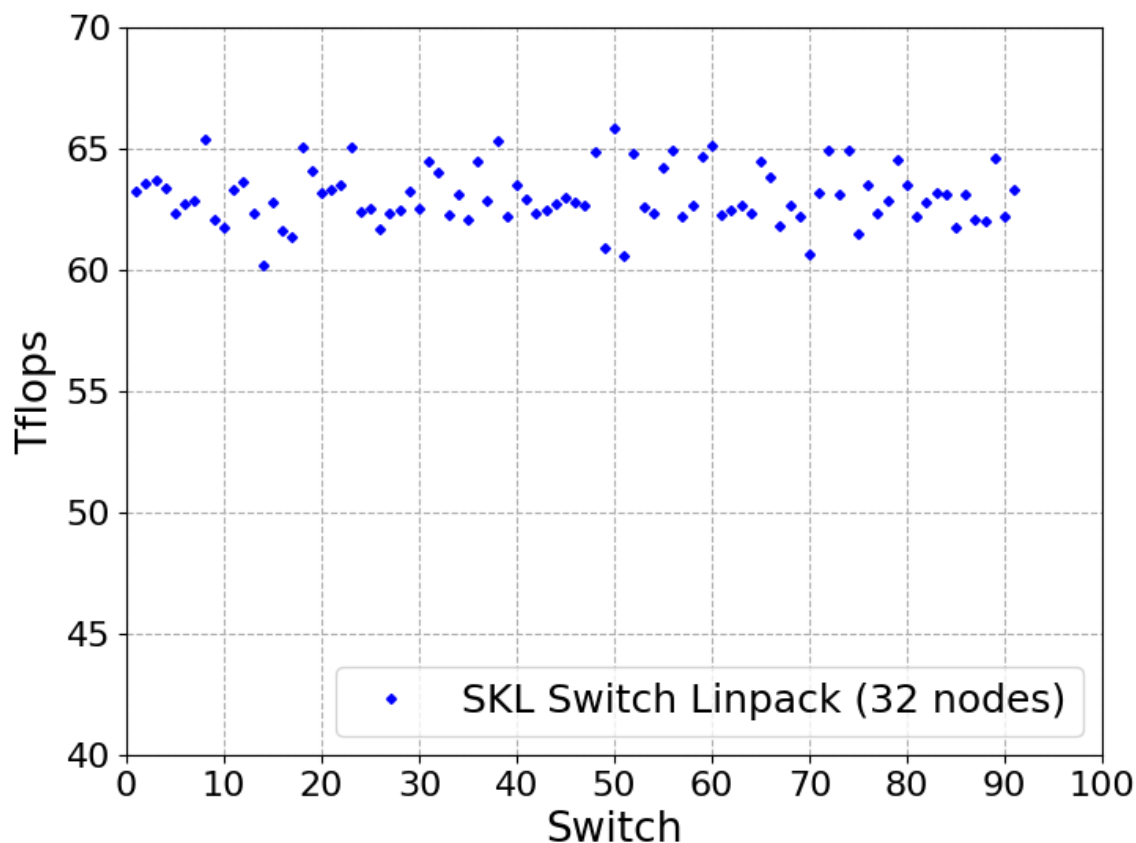
- Sanity threshold: 130000 MB/s (no slow nodes found)



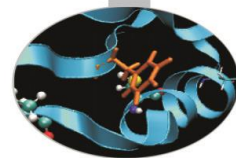


Switch-level Linpack SKL

- 91 switches tested
- Overall stable performance, no switch with problems

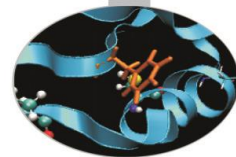


MARCONI100 – November 2021

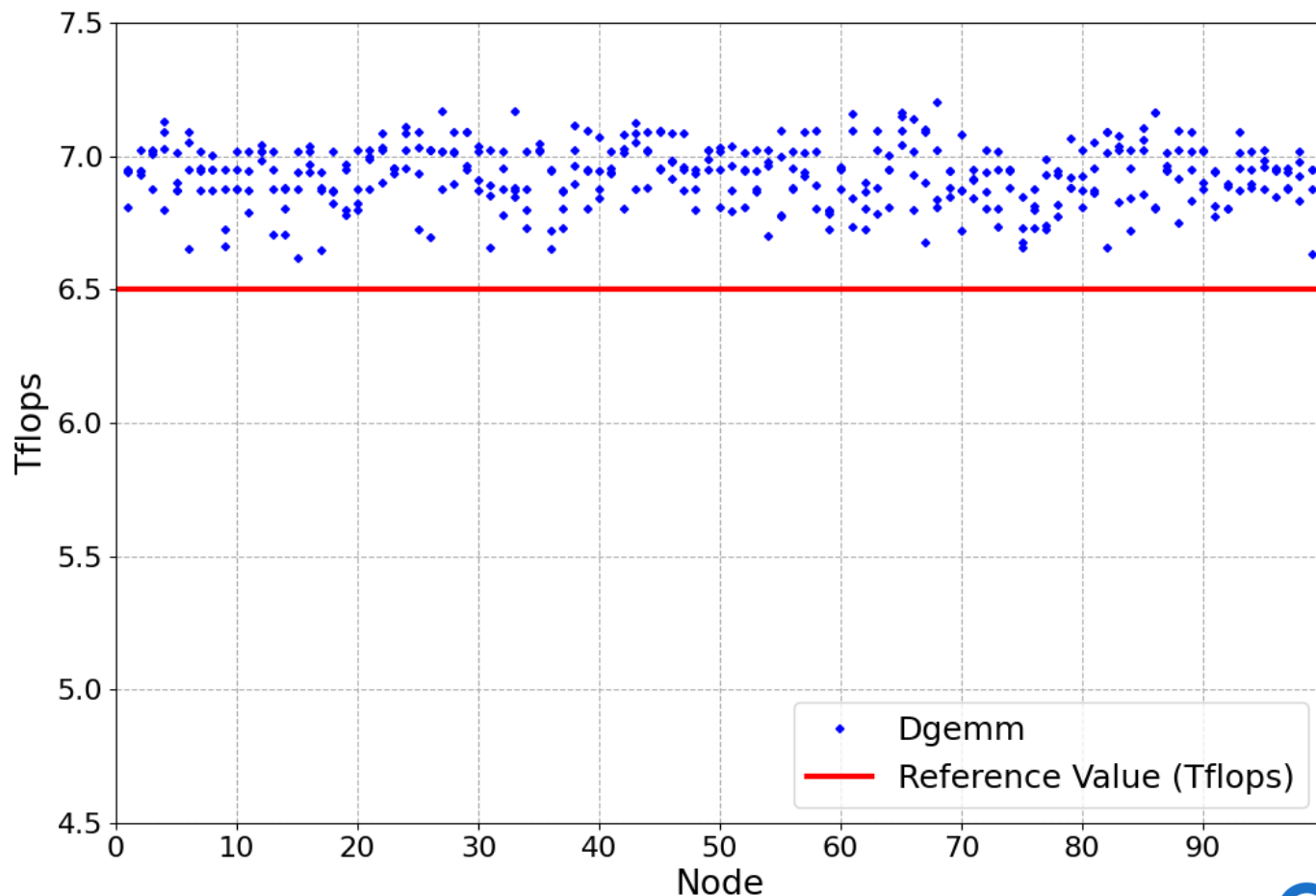


- Sanity checks were performed during maintenance on November 23rd
- Tests: dgemm, stream-GPU, nvlink and p2p on each single node of M100
- Results from the nodes of EUROFusion partition are shown

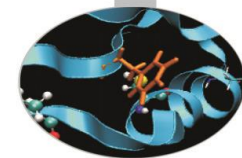
Dgemmm



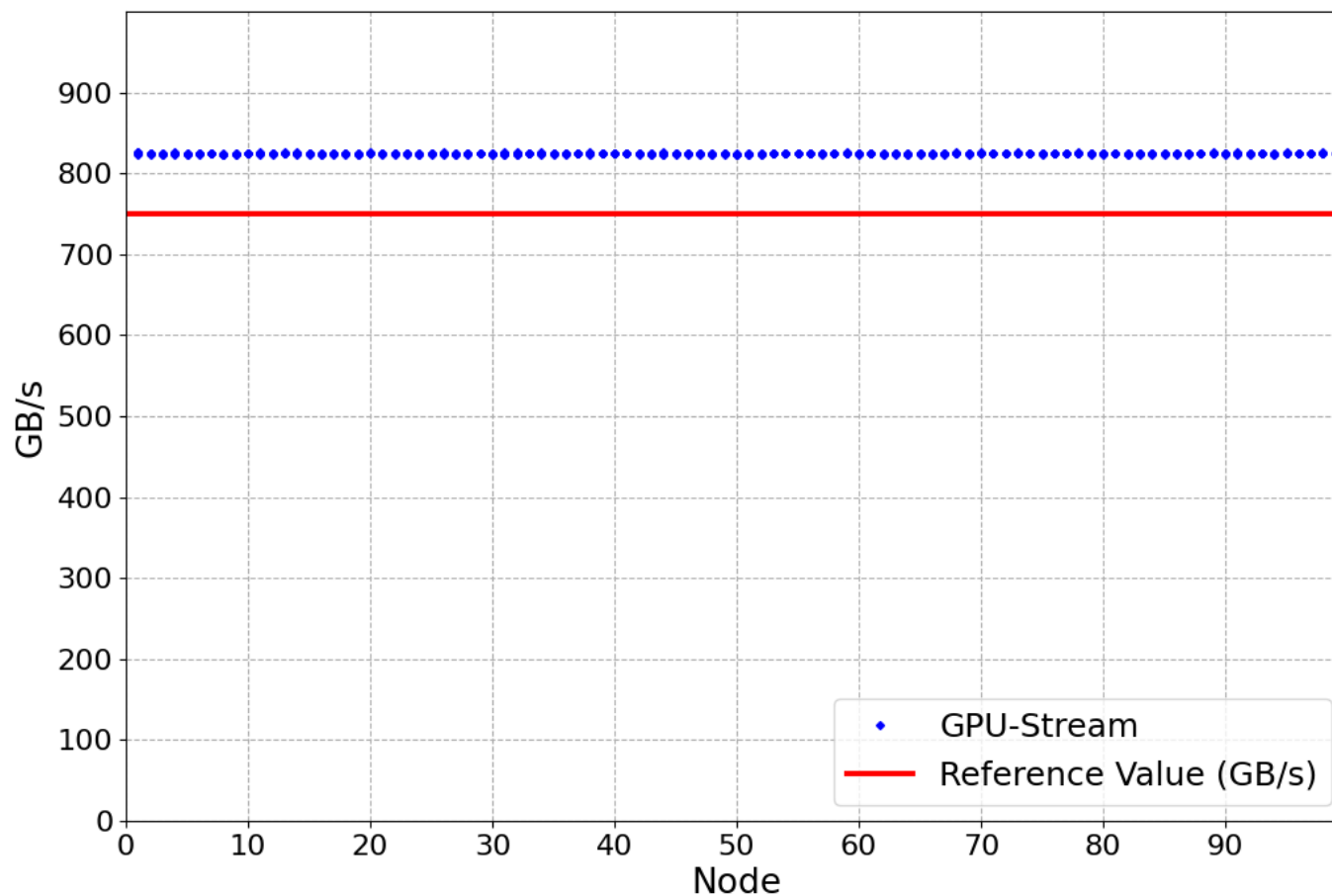
- Sanity threshold: 6.5 Tflops (no slow GPU found)



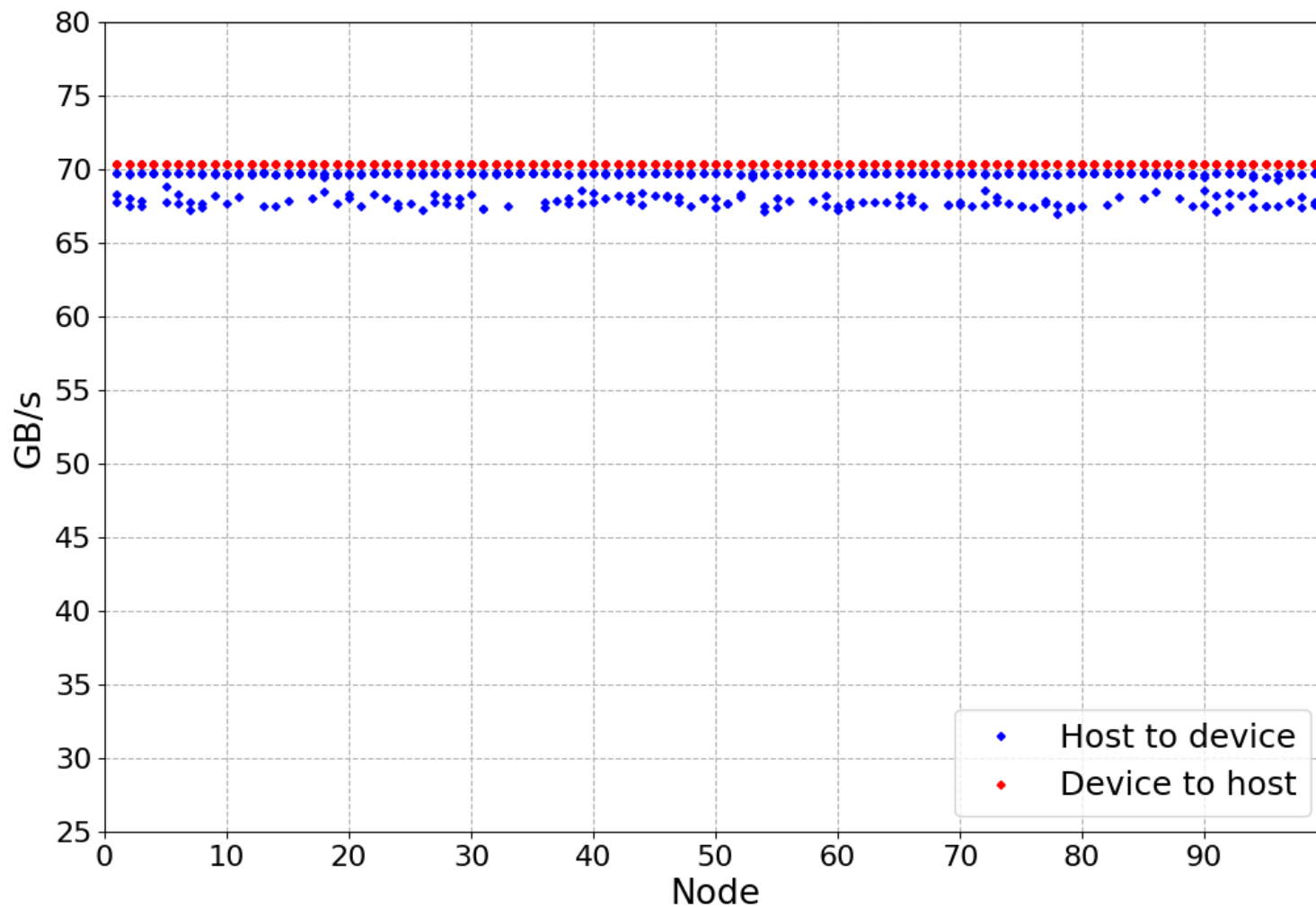
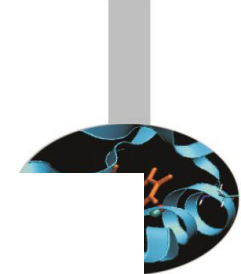
Stream-GPU



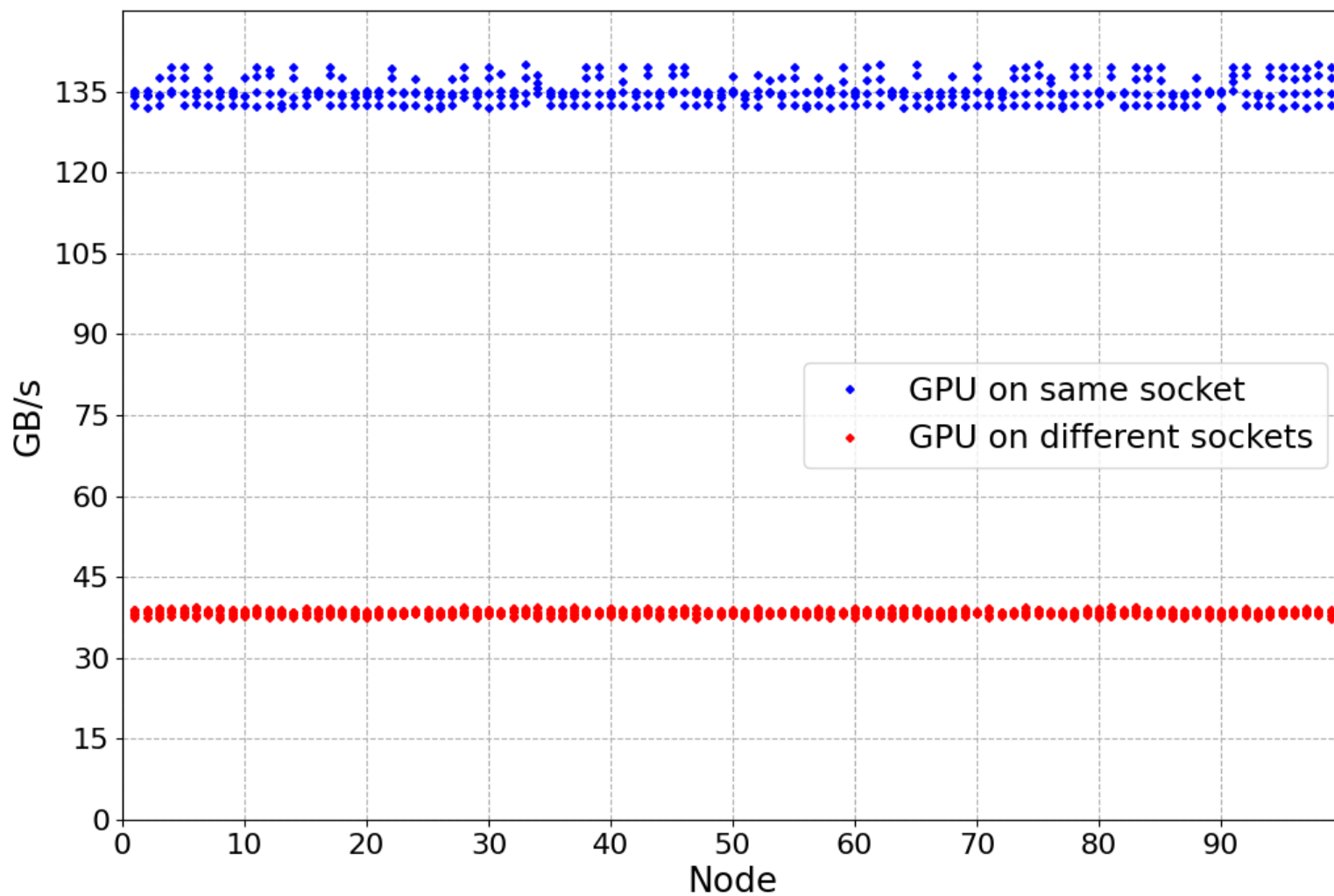
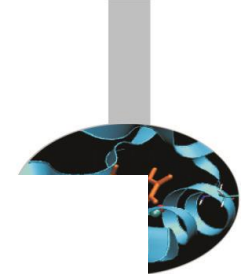
- Sanity threshold 750 Gb/s (no **slow GPUs found**)



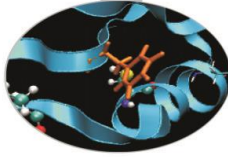
Nvlink-GPU



P2P-GPU

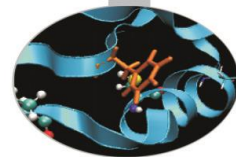


MARCONI100 – December 2021

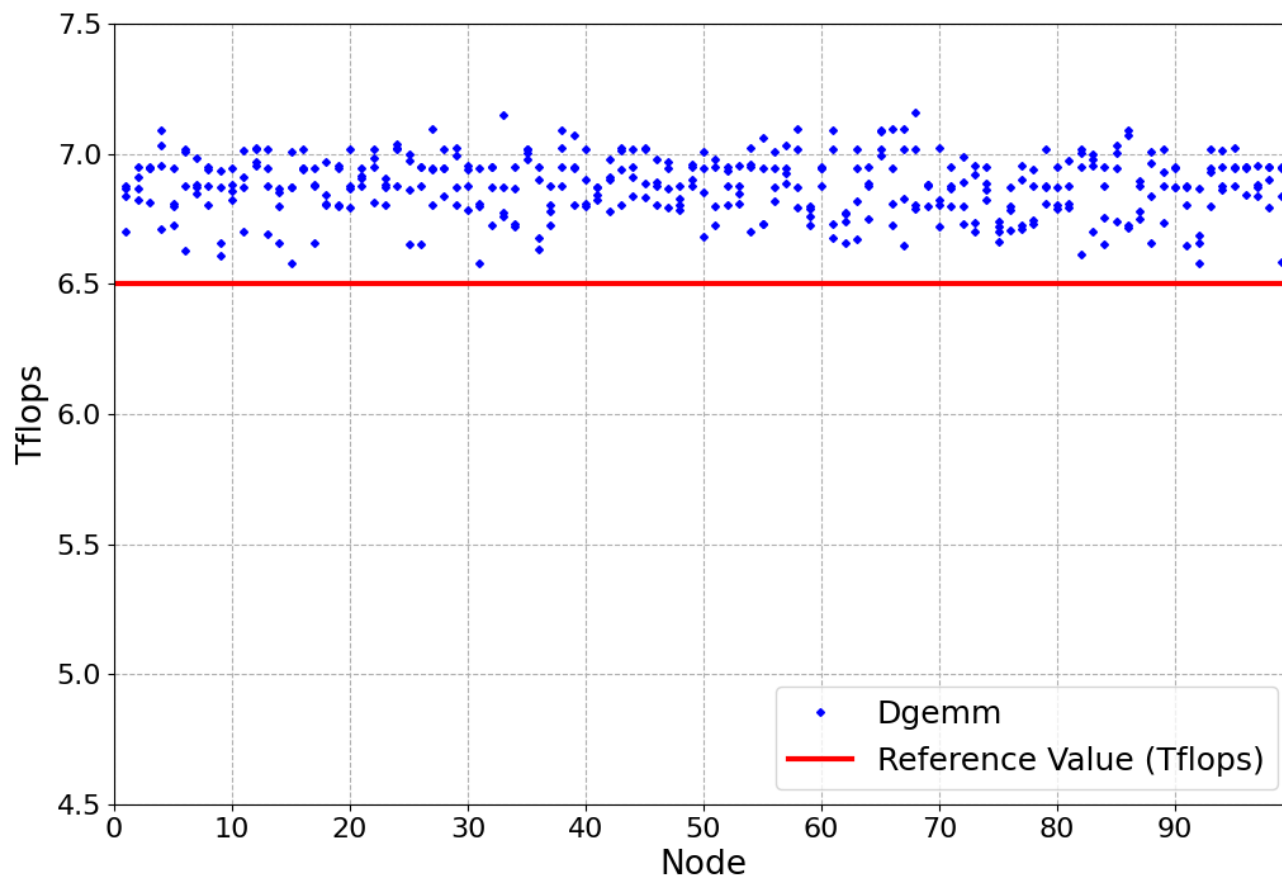


- Further sanity checks were performed during production and launched on December 9th
- Tests: dgemm, stream-GPU, nvlink and p2p on each single node of M100
- Results from the nodes of EUROFusion partition are shown

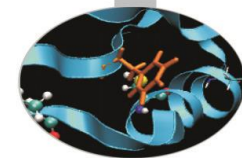
Dgemmm



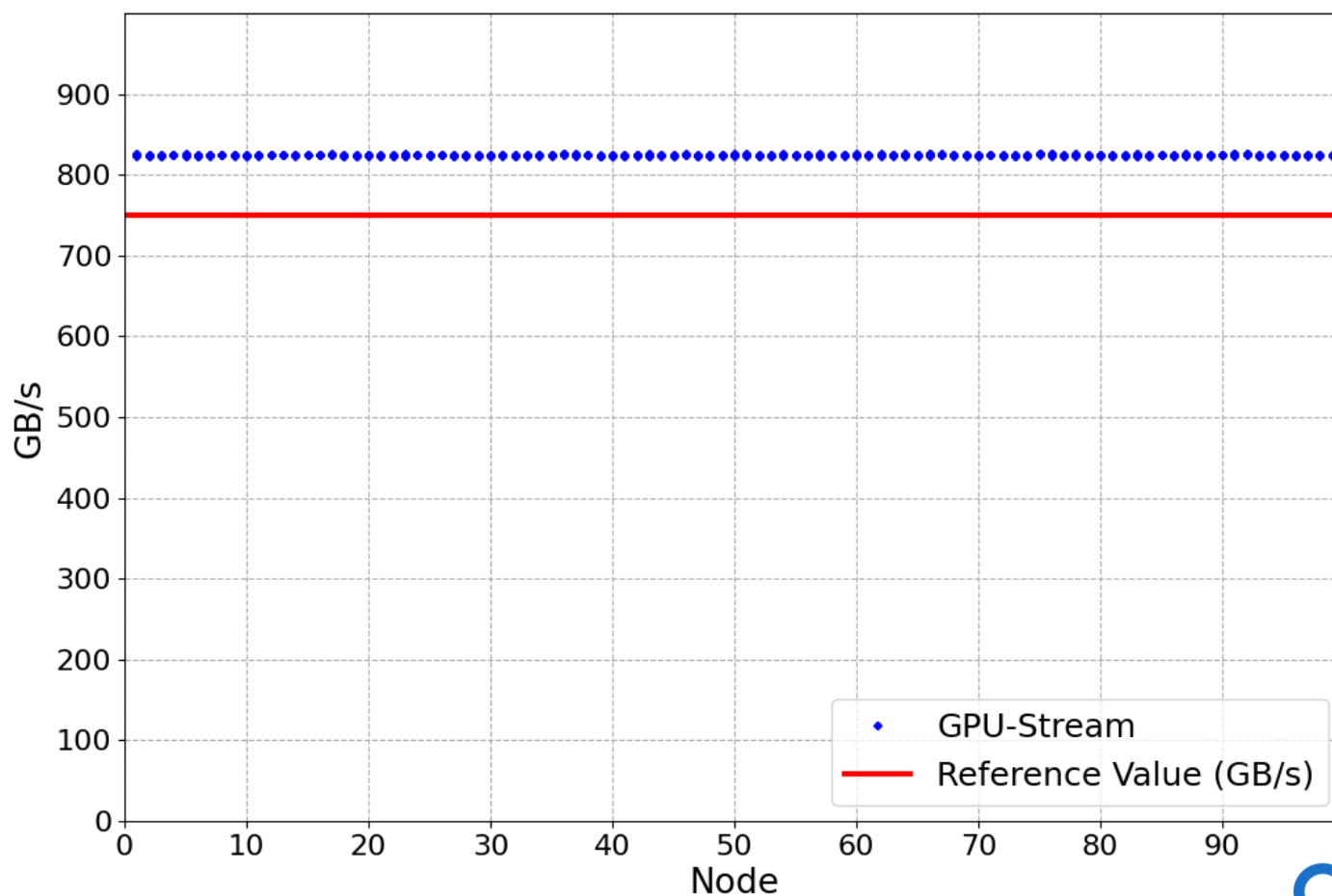
- Sanity threshold: 6.5 Tflops (one slow GPU found)



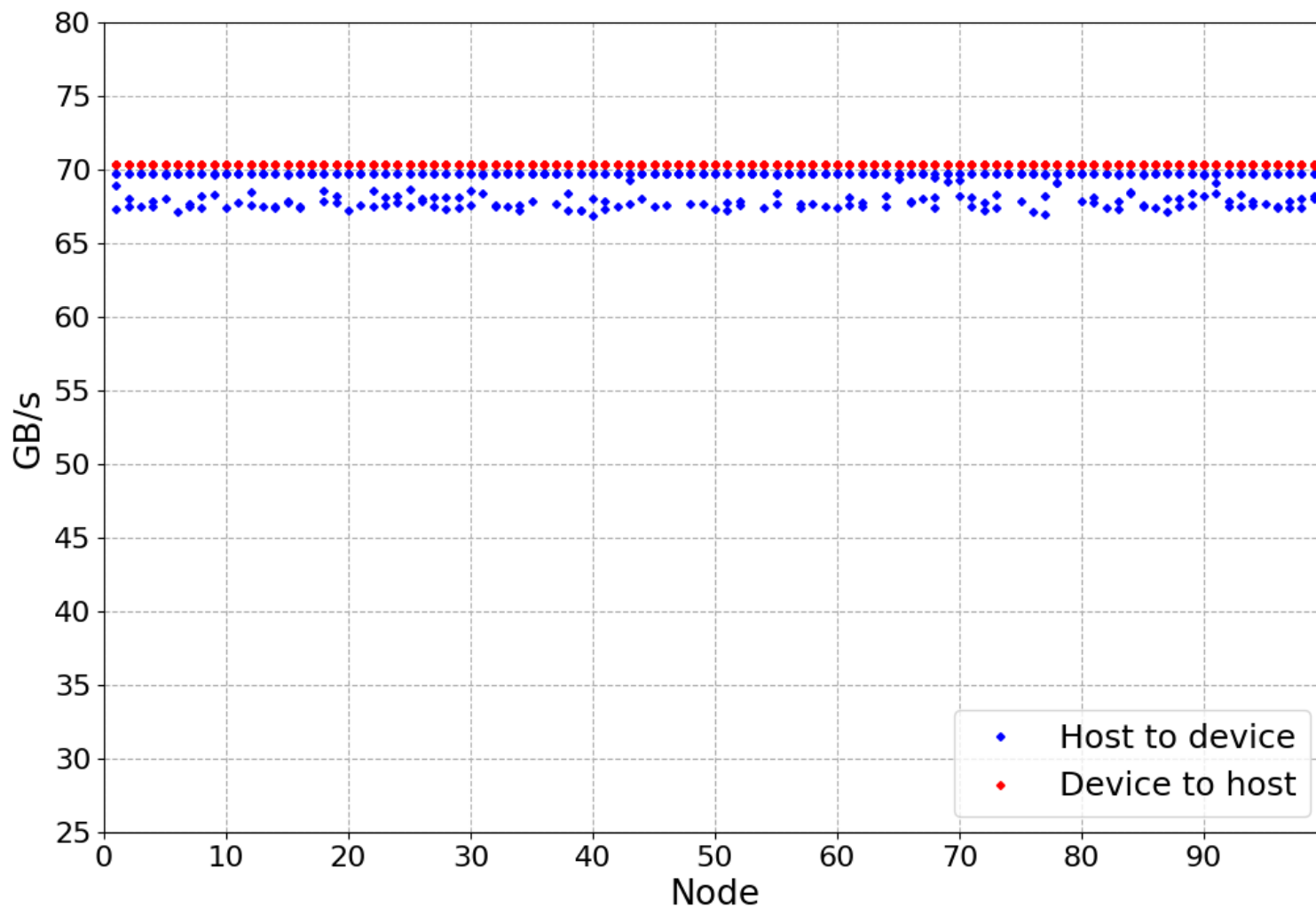
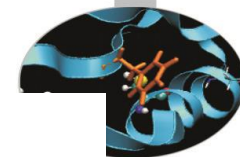
Stream-GPU



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



Nvlink-GPU



P2P-GPU

