Nanyang Technological University, Singapore

- passionate about HPC
- hold weekly training which open to every major in NTU
Strategy - High Density GPU cluster + Cloud

- each node with 8 GPU slots, connected by IB directly
- locally: aiming at benchmarking and deep learning application
Application Optimisation

Horovod:
- use FP16 for communication
- finely tuned on several deep models
- added GPUDirect RDMA support

OpenMC
- tried different compilers; mpi implementations; compilation flags...
- bounded by intensive memory access
- tested on Cloud and compared between different series of VM.

SeisSol
- 1-click script for running and plotting graph
- consulted professor from Department of Geophysics to better understand seismic activities