



NSTC Core Facility for Scientific Computing and Big Data Analysis

- **Services are provided by Academia Sinica Grid Computing Centre (ASGC)**
- **User-oriented and collaboration-oriented approach**
- **4x training events a year**
- **Thanks for the great support from IIS/AS 莊庭瑞老師 團隊、AMD, HPE**

Accelerating Discovery and Innovation With Advanced Computing Services

- **Service:**

- Computing, storage & long-term backup, data transmission, analysis facility, machine learning (ML) environment, performance tuning
- Software deployment and integration: ML application framework; making good use of available resources; virtualization and containerization; service collocation
- User support: Training and promotion; technical and usage consultation;

- **Resource:**

- Able to support 2,000 CPUCore scale parallel computing; 384GB RAM in a work node; 8xA100 GPU (80GB RAM) per node; 10PB+ disk storage space
- CPU: AMD Genoa 1,920 Cores; AMD Rome 768 Cores
- GPU: NVIDIA A100 (24), V100 (48), 3090 (24)
- Storage System : Ceph filesystem 10+ Petabyte; Tape storage 12 Petabyte

- **Resource plan in 2024**

- New Intel computing server
- New NVIDIA GPU: 4090
- More storage for Ceph: +4PB
- New WN: +2,000 CPU Cores