



NSTC Core Computing Service Workshop **(NSTC Core 高效能核心計算服務工作坊)**

January 15th 2025

Purpose:

To introduce services provide by the NSTC Core Center (高效能核心科學計算中心):

- High-performance, highly scalable and stable big data analysis environment
- Secure storage and backup
- Establish scientific computing system, develop technology and service research capabilities
- Cultivate talents

Center Location:

Academia Sinica Grid Computing (ASGC) Center, at the Institute of Physics of Academia Sinica

Funding from:

The Taiwan National Science and Technology Council (國家科學及技術委員會)



Services

To serve all Taiwan Scientific communities:

- Collaborate with research teams to
 - Assist in the customization of big data analysis processes
 - Improve the performance of big data analysis and scientific computing
 - Develop new analytical tools and methods
- Maintain a stable research and analysis environment
- Provide a convenient high-performance application environment
- Research team does not have to go through the work to setup their own system and maintain it
 - Allow to focus on scientific issues



NSTC Core is currently servicing about 600 users from 25 institutes



Workshop Agenda

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1. 高效能計算服務教育訓練工作坊介紹 (NSTC Core Services and Resources)
 2. 高效能科學運算服務 (Computing and Storage Services)
 3. 虛擬化 SaaS (Software-as-a-Service) 雲端計算服務 - DiCOSApp (Virtual Software-as-a-Service Cloud Computing Service)
 4. SLURM計算服務 (SLURM computing service)
 5. 資料服務 (Data Service)
 6. 問卷調查 (Questionnaire)
- These presentations will be delivered in Mandarin, but the slides are written in English
 - We hope that more people will know about the computing services NSTC Core is providing, and benefit from it for their scientific research