

Monash University Malaysia High Performance Computing Usage Policies

The Monash University Malaysia High Performance Computing (MUM-HPC) is a Monash University Malaysia Research Infrastructure platform. It is currently managed by the Platform Director, Dr. Tan Chee Pin, with strong support from a Technical Committee, Stakeholders Committee and Information Technology Services (ITS). The HPC Usage Policies below are developed by the Technical Committee and will be subject to continuous update based on the HPC usage pattern and feedback.

As of December 2015, the MUM-HPC consists of 192 cores distributed across 12 nodes (16 cores per node) with 256GB RAM allocated to each node and a maximum data storage capacity of 19TB. The operating system for the MUM-HPC is unix-based e.g. RedHat Linux but with a GUI frontline for selected software as requested by users.

HPC Usage Policies

1. Each registered user will be allocated a maximum of 32 cores, 20GB RAM and 100 GB of disk storage. Users can submit job using the HPC Web portal at <http://www.hpc.monash.edu.my/>
2. For experienced Linux-user, a unique IP address will be provided by ITS that can be used to access the HPC Head node. The maximum time allowed for each Linux interface session in the head node is 30 minutes. User will be automatically logged out of the server thereafter.
3. Request for new user account, new software installation and creation of GUI front-line must be put through ITS intranet available at <http://intranet.monash.edu.my/ess/ITServices/Pages/IT-Services-Reqquisition.aspx>. The request will need to be reviewed and approved by the Platform Director prior to implementation.
4. For new software installation, users must ensure that the software is compatible with Linux-operating system and can be run through command-line.
5. Users are required to routinely monitor their disk space and delete unnecessary intermediate file and/or unused data whenever possible. It is important to note that HPC is not meant to for long-term data storage.
6. Users must acknowledge the MUM-HPC for any form of publication resulting from work done on the MUM-HPC.

Suggested text: “The author(s) would like to acknowledge the Monash University Malaysia High Performance Computing for the provision of computational resources.”

7. Each account will be reviewed annually in November to determine if they should be continued. Users who wish to continue their account on the system are required to attach their research outcome e.g. publication soft-copy or external grant in the renewal form.
8. Users **shall not**
 - a. Attempt to access data or alter programs in the head node
 - b. Engage in activities that can compromise the MUM-HPC security
 - c. Download, install and run software that affect the MUM-HPC system security

- d. Configure their software to run in a way that it will fully utilize a single node i.e. the job should be distributed across multiple available nodes using a fraction of the processing power.
9. To provide optimum computational resource allocation for all users, for any given job submission, the maximum job duration is 7 days. However, users may request for up to 30 days of job extension. Similarly such request will need to be submitted via ITR (see point 3) and approved by the Platform Director.