

**The Euler Co-op**  
Operation & Management Plan

**Euler Shared-Use Guiding Principles:**

1. Users with Euler accounts will be asked to pay a \$443 maintenance fee every April 1 and October 1.
  - This twice-a-year fee exclusively pays for sys admin support.
2. Hardware contributors will receive a certain number of “priority hours” every six months based on the total CPU time available on the hardware that they add to Euler.
  - Every six months, hardware contributors will receive a credit of hours equal to 95% of six months of the total CPU-hours available on their resources. E.g. two nodes with four cores each would be calculated as  $0.95 \times (2 \text{ nodes} \times 4 \text{ cores}) \times 6 \text{ months}$ . The remaining 5% of the time is withheld for scheduled maintenance.
  - “Hardware contributor” status will last until the hardware is retired. See 4) below for retirement rules.
  - Where applicable, allocations will be issued by lab (group) and will pool the priority hours for the associated users. E.g. SBEL lab members would have a shared pool of available hours to draw from.
  - Priority hours will expire at the end of each six-month period (Apr. 1-Oct. 1). Unused hours do not carry over, and extra priority hours cannot be obtained.
  - Users who have spent all their priority hours will still be able to submit jobs using lowered priority (courtesy hours).
3. An Euler user who is not a hardware contributor or does not belong to a group that is a hardware contributor will receive unlimited courtesy time and zero priority time.
  - A courtesy job might be preempted at any time to make room for a job using priority hours.
  - Preemption of courtesy jobs will be performed on a first-in, first-out basis, i.e. the jobs that have been in the queue the longest will be cancelled first.
4. Euler hardware retirement is done at the discretion of the ECD. Hardware may also be withdrawn at any time at the request of its owner. Upon retirement, the hardware is always returned to its owner.
5. Account sharing for avoiding fee payment will be penalized with the closing of the account in question.

**Glossary:**

- Hardware contributor: a person/group that has added a full node to Euler.
- Priority hours: the amount of time that can be used to run jobs which can preempt other jobs.
- Courtesy job: a job launched by a user who is not debiting priority hours. Courtesy jobs may be cancelled or preempted by higher priority jobs at any time.

**Remarks:**

- Accounting for priority hours will be managed using SLURM facilities.
- Summary of priority hours as well as current hardware assets and owners will be available online.
- “Introductory accounts” will be available for four months and are envisioned to help one understand whether Euler can help them. No fee will be charged for this period. There will be a duration limit of 10 minutes on the length of a job submitted via an “introductory account”.
- Users joining after April 1 or October 1 will be charged on a prorated basis (\$80 less per month).
- Users with priority hours can launch at any time courtesy (low priority) jobs that would not debit from their priority hours.
- This doc will be updated every six months to reflect changes in the shared use of Euler.
- Address Euler inquiries to [euler.co-op@engr.wisc.edu](mailto:euler.co-op@engr.wisc.edu).