Accounts & Allocations

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Eligibility

All faculty or staff for researches in Georgetown University or Medical Center are eligible for access to Medusa as Principal Investigators (PI). All other users must be authorized and associated with the corresponding PI who has already agreed on the account and usage terms.

Accounting

The accounting system will use each group which includes the corresponding PI and associated users to keep track of its total usage (Service Units). Each PI is responsible for any associated cost with the group.

Allocations and Charges

When a PI signs up for Medusa, an initial allocation of Service Units (SUs) is granted to the PI (group). The current initial allocation is 100,000 SUs per fiscal year with annual Initial Allocation Fee $100. If the total usage of the PI (group) is over the initial allocation, the cost associated with the usage over the initial allocation will be charged to the PI. The current rate over the initial allocation is at $22 per every 10,000 SUs.

As the Service Units (SUs) takes the Queue Factor (QF) into account, the following chart shows the current effective cost in terms of computing core hours:

<table>
<thead>
<tr>
<th>Queue</th>
<th>QF</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>SUs &lt; Allocation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Allocation &lt; SUs</td>
</tr>
<tr>
<td>base.q</td>
<td>1</td>
<td>$0.00</td>
</tr>
<tr>
<td>bigmem.q</td>
<td>1</td>
<td>$22 per 10,000 CPU hours</td>
</tr>
<tr>
<td>devel.q</td>
<td>0</td>
<td>$0.00</td>
</tr>
<tr>
<td>dev_.q</td>
<td>0</td>
<td>$0.00</td>
</tr>
</tbody>
</table>

The command `show_usage` should display your PI's (group's) usage, your own usage, and PI's allocation balance in Service Units (SUs).

Condo Owners

As the current HPC Medusa is based on a co-sponsored and shared model among PIs and Institute itself, PI should consider to become a condo owner if he/she plans to use Medusa a lot. A condo owner is a PI who invests on adding compute nodes to the shared cluster, and has the following incentives:

- The PI has access to existing shared resources (queues, storage, software, support) as other regular PIs.
- The annual Initial Allocation Fee is waived.
- The corresponding credit is added to the annual initial allocation of SUs. For example, if a compute node in the current base.q is added, 175,200 SUs will be added to the initial allocation per fiscal year for 4 years.
- The PI has a higher priority in the job scheduling system.
- The PI has a larger resource quota corresponding to the added compute nodes.

Contact

Please contact sm-cram@georgetown.edu for account information.