HPC Documentation

Our Mission

UA High Performance Computing (HPC) is an interdisciplinary research center focused on facilitating research and discoveries that advance science and technology. We deploy and operate advanced computing and data resources for the research activities of students, faculty, and staff at the University of Arizona. We also provide consulting, technical documentation, and training to support our users.

This site is divided into sections that describe the High Performance Computing (HPC) resources that are available, how to use them, and the rules for use.

Quick News

We only keep a reasonably current version of Singularity. Prior versions have been removed. Only the latest one is considered secure. Singularity is installed on all of the system's compute nodes and can be accessed without using a module.
Have you tried Puma yet? Our latest supercomputer is larger, faster and has bigger teeth than Ocelote (ok, maybe not the last bit). Puma Quick Start

Since we upgraded Ocelote it has the same software suite as Puma. It is generally not as busy as Puma. So if your work does not need the capabilities of Puma, consider using Ocelote instead. This applies to GPU's also, if the P100's will work for you.

Ocelote's operating has been updated to CentOS 7 following a month-long maintenance period. It now shares the same modules with Puma and uses the same scheduling software SLURM.

Anaconda is now available as a module. It expands the capability of Jupyter with Jupyter Labs; includes RStudio, and the Conda ecosystem. We recommend you access it through OnDemand and the Ocelote or Puma Desktops. See these instructions.

Quick Links

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>26 Jan 2022</td>
<td>Maintenance downtime is scheduled from 6AM to 6PM on January 26 for ALL HPC services</td>
</tr>
<tr>
<td>28 Jul 2021</td>
<td>Maintenance downtime is scheduled from 6AM to 6PM on July 28 for ALL HPC services</td>
</tr>
<tr>
<td>12 Jul 2021 - 01 Aug 2021</td>
<td>El Gato will be taken down for scheduled maintenance from July 12th through August 1st. Following maintenance, it will use SLURM as its scheduling software and have the same software image and modules as Ocelote and Puma.</td>
</tr>
<tr>
<td>01 Jun 2021 - 30 Jun 2021</td>
<td>Ocelote will be taken down for scheduled maintenance from June 1st through June 30th. During that time, its OS will be updated to CentOS 7 and its scheduler will be migrated to SLURM.</td>
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<tr>
<td>Date</td>
<td>Message</td>
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<tr>
<td>27 Jan 2021</td>
<td>Maintenance downtime is scheduled from 6AM on January 27th through 6PM on January 28th for ALL HPC services</td>
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<tr>
<td>28 Jan 2021</td>
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<tr>
<td>28 Oct 2020</td>
<td>Maintenance downtime is scheduled from 7AM to 6PM on October 28 for ALL HPC services</td>
</tr>
<tr>
<td>29 Jul 2020</td>
<td>Maintenance downtime is scheduled from 7AM to 6PM on July 29 for ALL HPC services</td>
</tr>
<tr>
<td>29 Apr 2020</td>
<td>Maintenance downtime is scheduled from 7AM to 6PM on April 29 for ALL HPC services</td>
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<tr>
<td>29 Jan 2020</td>
<td>Maintenance downtime is scheduled from 7AM to 6PM on January 29 for ALL HPC services</td>
</tr>
<tr>
<td>30 Oct 2019</td>
<td>Maintenance downtime is scheduled from 7AM to 6PM on October 30 for ALL HPC services</td>
</tr>
<tr>
<td>31 Jul 2019</td>
<td>Maintenance downtime is scheduled from 7AM to 6PM on July 31 for ALL HPC services. We will be patching all the HPC systems and upgrading R to version 3.6.1 during this time.</td>
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<tr>
<td>23 Mar 2018</td>
<td>Debug queue is added to support testing code or trying script options. It has higher priority but short limits.</td>
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<tr>
<td>02 Feb 2018</td>
<td>46 nodes with Nvidia GPU's are available for standard and windfall use.</td>
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<tr>
<td>02 Jan 2018</td>
<td>The 2012 systems (cluster, smp, and htc) have been powered off as scheduled.</td>
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<tr>
<td>12 Dec 2017</td>
<td>We offer a new web portal called <strong>Open OnDemand</strong> which includes Jupyter notebooks and a nifty file browser</td>
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<tr>
<td>31 Aug 2016</td>
<td>Grand Opening of Ocelote 3pm</td>
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<tr>
<td>01 Feb 2016</td>
<td>Our new cluster is delivered. Installation will take most of the week</td>
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