

High Performance Computing

Search the HPC-Wiki

MEMBER OF



Introduction

The WWU IT is providing HPC resources to aid researchers conduct computationally demanding tasks. For this purpose we are hosting the **PALMA-II** HPC cluster. It is meant to be used to run applications which are highly parallelized and can take advantage of hundreds or thousands of cores simultaneously and/or need very large amounts of memory.

The HPC team is maintaining the cluster and trying to keep it operational 24/7. We are also providing a default set of software to use on the cluster and try our best to help with installing or optimizing programs you want to run. However, time is limited and sometimes the applications you want to run on the cluster might just not be suited for this use-case. Please inform yourself about what resources you require and if you can actually make use of an HPC cluster.

What HPC is not

The cluster is not a *very fast computer* replacing your laptop or workstation. Programs on HPC clusters, normally, do not make use of any GUI and calculations are typically submitted to a batch system via job scripts. Users should be familiar with the Linux command line and should *thoroughly* read the information provided in this wiki.

Users who are completely new to the Linux commandline and HPC are strongly advised to take the [Introduction to Linux in HPC](#) tutorial.



Manufacturer	MEGWARE
Cores	16,272
Memory	77,568 GB
Nodes	444
Processor	Intel Xeon Gold 614C (Skylake)
Interconnect	100Gbit/s Intel Omni-
GPFS Storage	2,4 PB
Linpack Performance	Rmax: 800 TFlop/s Rpeak: 1,277 TFlop/s
OS	CentOS 7

Latest News and Announcements

- [2022-05-04 - MAINTENANCE](#)
- [2022-04-01 - HPC consulting hour](#)
- [2021-10-19 - HPC-user meeting](#)
- [2021-08-06 - MAINTENANCE 2021-08-\(14-16\)](#)

Requirements

You have to be a member of a [registered](#) research group of the University of Münster. Detailed information about the registration process can be found [here](#).

Publications

We kindly ask you to record any publication you made with the help of our HPC systems at [CRIS.WWU](#) with an appropriate note. Instructions can be found [here](#).

Lectures

Once a semester there is a [lecture](#) about parallel programming and the usage of our HPC system. This lecture is intended for people with prior knowledge in Linux and C/C++ or Fortran programming. It is **not** an introductory course, however, if you just want to inform yourself on the basic usage of PALMA-II, you are welcome to join the first day of this lecture.

News on HPC

Get important updates and news on HPC topics through our [mailing list](#) and have a look at the [News](#) page!

Join the [HPC-Users](#) channel on Mattermost.

Getting started

A first overview can be found at the [Getting started](#) section. More specifics can be found at the individual pages of the [Wiki](#)

Contact & Support

If you have questions regarding High Performance Computing, you can write to hpc@uni-muenster.de.

A few Do's and Dont's when writing:

- Please use your uni-muenster.de e-mail address or at least specify your user account when contacting us
- Don't send log files or submission scripts or the like. Better just send the **path** on the cluster to those files if possible.

HPC consulting hour

We are also offering an HPC consulting hour ("Sprechstunde") via Zoom, where you can directly talk to one of our support staff:

- Every Tuesday from 11-12am
- Zoom Link will be shared every week via the mailing list and Mattermost HPC-Users channel (see above).

HPC.NRW

The WWU is part of the The North Rhine-Westphalia Competence Network for High Performance Computing ([HPC.NRW](https://www.hpc-nrw.de)).

It offers a competent first point of contact and central advisory hub with a broad knowledge base for HPC users in NRW.

A network of thematic clusters for low-threshold training, consulting and coaching services has been created within the framework of the competence network HPC.NRW. The aim is to make effective and efficient use of high-performance computing and storage facilities and to support scientific researchers of all levels. The existing resources and services that the state has to offer are also presented in a transparent way.



General HPC WIKI

In a joint effort of different German Universities, many useful tips and general information about HPC computing can be found at <https://hpc-wiki.info>.

