Blueshark Cluster

What software and libraries are available?

The cluster environment is implemented in CentOS 7 Linux.

The following compiler suites, libraries, and software are installed, and can be updated by request. Some are OS level packages while others use the environment module system. **NOTE:** [See this FAQ for more information on using environment modules](https://services.fit.edu/it_faq/content/39/352/en/what-software-and-libraries-are-available.html). Additional packages can be added upon request and after a review for suitability. Users cannot install system level packages.

- ANSYS
- ATLAS
- Berkley Lab Checkpoint Restart (BLCR)
- Apache Cassandra
  - 2.1.5
  - 2.1.9 (stable)
  - 2.2.1 (latest)
- Cuda Development Kit
- Environmental Modelling System (EMS)
- Fluent
- Gaussian
- GCC by GNU
  - 5.1.0
  - 5.2.0
- HDF5
- Java Development Kit
  - 1.7.0_u79
  - 1.8.0_u60
- LAPACK
- MPICH
  - 3.1.3
  - 3.1.4
- NETCDF
- OPENMPI
- Portland Group Compiler (PGI) For C/C++/FORTRAN/MPICH
- PYTHON
  - 2.7.10
  - 3.4.3
- SAGE Math

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