

Open MPI: **Open Source High Performance Computing**

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A High Performance Message **Passing Library**

The Open MPI Project is an open source Message Passing Interface implementation that is developed and maintained by a consortium of academic, research, and industry partners. Open MPI is therefore able to combine the expertise, technologies, and resources from all across the High Performance Computing community in order to build the best MPI library available. Open MPI offers advantages for system and software vendors, application developers and computer science researchers.

Features implemented or in short-term development for Open MPI include:

- Full MPI-3.1 standards conformance
- Thread safety and concurrency
- Dynamic process spawning
- Network and process fault tolerance
- Support network heterogeneity
- Single library supports all networks
- · Run-time instrumentation
- Many job schedulers supported

- Many OS's supported (32 and 64 bit)
- Production quality software
- High performance on all platforms
- · Portable and maintainable
- Tunable by installers and end-users
- Component-based design, documented **APIs**
- Active, responsive mailing list
- Open source license based on the BSD license

SC'15 OMPI State of the Union and **PMIx BOFs**

Submit your questions ahead of time for the SC'15 **BOFs**

> Read more

Open MPI v1.10.2 released

Stable release

> Read more

hwloc v1.11.2 released

New release

> Read more

PMIx v1.1.1 released

New production release

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Performance Benchmarks

New section οn performance benchmarks added

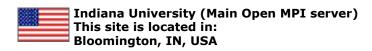
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Open MPI is developed in a true open source fashion by a consortium of research, academic, and industry partners. The Open MPI Team page has a comprehensive listing of all contributors and active members.

See the FAO page for more technical information

https://www.open-mpi.org/

Join the mailing lists



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