

Open MPI core (OPAL, ORTE, and OMPI layers)

Frameworks

MPI byte
transfer layer
(btl)

MPI collective
operations
(coll)

Process launching
and monitoring
(plm)

...

High
resolution
timers (timer)

Base and
components
(i.e., plugins)

Base

TCP

Shared memory

⋮

OpenFabrics

Base

Tuned

Shared memory

⋮

Loopback

Base

rsh / ssh

SLURM

⋮

ALPS (Cray)

Base

Linux

Darwin

⋮

Windows