OpenMPI

• Goals of OPEN MPI
  - Full MPI-2 implementation
  - Fast, reliable and extensible,
  - Production-grade code quality as a base for research

• Concept of OPEN MPI
  - Modular design with component architecture
  - Support of many network protocols
    such as gm, mx, openib, udapl and tcp

• HLRS contribution to OPEN MPI
  - Porting and extension on Windows CCS
  - Nightly test on Windows HPC Server 2008
  - Add support for RDMA Bit Transfer Layer using Network Direct
  - Add support for WinVerbs
  - Develop remote process launch and management component
    using Compute Cluster Pack and Windows Management
    Instrumentation
  - Extend the PERUSE profiling interface and perform PERUSEbased
    performance measurements on applications
  - Work on advanced internal concurrent-threading features

• Members of OPEN MPI