

-- StephenChilds - 08 Nov 2007

## Configuration variables for MPI

**IMPORTANT NOTE!!:** Updated documentation for the configuration of MPI is now under [https://twiki.cern.ch/twiki/bin/view/LCG/Site-info\\_configuration\\_variables#MPI](https://twiki.cern.ch/twiki/bin/view/LCG/Site-info_configuration_variables#MPI).

These are all the necessary variables to configure of MPI. See also <http://www.grid.ie/mpi/wiki/YaimConfig>

There is an example file coming in the `services` directory, containing the node type specific variables. Please, remember to move these files into your appropriate `siteinfo` directory where you store the YAIM configuration. For more details please check The configuration variables section in the YAIM guide.

- **MPI specific variables:**

- ◆ **Mandatory variables:** sys admins must ensure these variables are properly defined according to the features of the site.

Variable Name	Description	Value type	Version
MPI_SHARED_HOME	Set this to set this to "yes" if you have a shared home area between WNs, to the path of a (writeable) shared area if there is one available, to "no" if there is no shared area.	String	0.1
MPI_SSH_HOST_BASED_AUTH	Set this to "yes" if you have password-less ssh enabled between your worker nodes.	String	0.1
MPI_MPICH_MPIEXEC	If you are using OSC mpiexec with mpich, set this to the location of the mpiexec program, e.g. "/usr/bin/mpiexec"	String	0.1
MPI_MPICH2_MPIEXEC	If you are using OSC mpiexec with mpich2, set this to the location of the mpiexec program, e.g. "/usr/bin/mpiexec"	String	0.1
MPI_MPI_START	Location of mpi-start if not installed in standard location /opt/i2g/bin/mpi-start	String	0.1
MPI_MPICH_ENABLE	Set to "yes" to enable the MPICH implementation of MPI.	String	0.1
MPI_MPICH2_ENABLE	Set to "yes" to enable the MPICH2 implementation of MPI.	String	0.1

- ◆ **Default variables:** sys admins don't need to change the value of these variables since YAIM provides a suitable default value.

Variable Name	Description	Value type	Default Value	Version
MPI_MPICH_PATH	Path to the MPI implementation MPICH.	String	"/opt/mpich-1.2.7p1"	0.1
MPI_MPICH_VERSION	Version of MPI implementation MPICH.	String	"1.2.7p1"	0.1
MPI_MPICH2_PATH	Path to the MPI implementation MPICH2.	String	"/opt/mpich2-1.0.5p4"	0.1
MPI_MPICH2_VERSION	Version of MPI implementation MPICH2.	String	"1.0.5p4"	0.1

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