

**NAME**

`oshmem_info` - Display information about the Open MPI installation

**SYNOPSIS**

`oshmem_info` [**options**]

**DESCRIPTION**

**oshmem\_info** provides detailed information about the Open MPI/SHMEM installation. It can be useful for at least three common scenarios:

1. Checking local configuration and seeing how Open MPI/SHMEM was installed.
2. Submitting bug reports / help requests to the Open MPI/SHMEM community (see <http://www.open-mpi.org/community/help/>)
3. Seeing a list of installed Open MPI/SHMEM plugins and querying what MCA parameters they support.

**OPTIONS**

**oshmem\_info** accepts the following options:

- `-a|--all`  
Show all configuration options and MCA parameters
- `--arch` Show architecture Open MPI/SHMEM was compiled on
- `-c|--config`  
Show configuration options
- `-gmca|--gmca <param> <value>`  
Pass global MCA parameters that are applicable to all contexts.
- `-h|--help`  
Shows help / usage message
- `--hostname`  
Show the hostname that Open MPI/SHMEM was configured and built on
- `--internal`  
Show internal MCA parameters (not meant to be modified by users)
- `--level` Show only variables with at most this level (1-9). The default is 1 unless `--all` is specified without `--level` in which case the default is 9. See the LEVEL section for more information.
- `-mca|--mca <param> <value>`  
Pass context-specific MCA parameters; they are considered global if `--gmca` is not used and only one context is specified.
- `--param <type> <component>`  
Show MCA parameters. The first parameter is the type of the component to display; the second parameter is the specific component to display (or the keyword "all", meaning "display all components of this type").
- `--parsable`  
When used in conjunction with other parameters, the output is displayed in a machine-parsable format `--parseable` Synonym for `--parsable`
- `--path <type>`  
Show paths that Open MPI/SHMEM was configured with. Accepts the following parameters: prefix, bindir, libdir, incdir, pkglibdir, sysconfdir.
- `--pretty`  
When used in conjunction with other parameters, the output is displayed in 'prettyprint' format (default)

- `--selected-only`  
Show only variables from selected components.
- `-V|--version`  
Show version of Open MPI/SHMEM.

## LEVELS

- 1 Basic information of interest to users
- 2 Detailed information of interest to users
- 3 All remaining information of interest to users
- 4 Basic information required for tuning
- 5 Detailed information required for tuning
- 6 All remaining information required for tuning
- 7 Basic information for MPI implementors
- 8 Detailed information for MPI implementors
- 9 All remaining information for MPI implementors

## EXAMPLES

- `oshmem_info`  
Show the default output of options and listing of installed components in a human-readable / prettyprint format.
- `oshmem_info --parsable`  
Show the default output of options and listing of installed components in a machine-parsable format.
- `oshmem_info --param btl openib`  
Show the MCA parameters of the "openib" BTL component in a human-readable / prettyprint format.
- `oshmem_info --param btl openib --parsable`  
Show the MCA parameters of the "openib" BTL component in a machine-parsable format.
- `oshmem_info --path bindir`  
Show the "bindir" that Open MPI was configured with.
- `oshmem_info --version ompi full --parsable`  
Show the full version numbers of Open MPI/SHMEM (including the ORTE and OPAL version numbers) in a machine-readable format.
- `oshmem_info --version btl major`  
Show the major version number of all BTL components in a prettyprint format.
- `oshmem_info --version btl:tcp minor`  
Show the minor version number of the TCP BTL component in a prettyprint format.
- `oshmem_info --all`  
Show *all* information about the Open MPI/SHMEM installation, including all components that can be found, the MCA parameters that they support, versions of Open MPI/SHMEM and the components, etc.

## AUTHORS

The Open MPI/SHMEM maintainers -- see <http://www.openmpi.org/> or the file *AUTHORS*.

This manual page was originally contributed by Dirk Eddelbuettel <edd@debian.org>, one of the Debian GNU/Linux maintainers for Open MPI, and may be used by others.