

# MPI LIBLINEAR FAQ

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Some questions may be found in [LIBLINEAR FAQ](#).

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## Q: Why am I getting the following warnings or even encountering crashes when running MPI LIBLINEAR?

```
$ mpirun -n 2 -npnnode 1 --machinefile machinefile ./train ...
-----
[[958,1],0]: A high-performance Open MPI point-to-point messaging module
was unable to find any relevant network interfaces:

Module: OpenFabrics (openib)
       Host: [machine-name]

Another transport will be used instead, although this may result in
lower performance.
-----
...
...[btl_tcp_frag.c:237:mca_btl_tcp_frag_recv] mca_btl_tcp_frag_recv: readv failed: Connection reset by peer (104)
-----
mpirun noticed that process rank 0 with PID 13335 on node peanuts exited on signal 11 (Segmentation fault).
-----
```

OpenFabrics (openib) is a module for high-speed data-transport across machines. If some related component (e.g., InfiniBand) is not supported on your machine, then OpenMPI may report the warning messages. To solve this issue, please add `--mca btl ^openib` into the command to exclude the openib component.

```
$ mpirun -n 2 -npnnode 1 --machinefile machinefile --mca btl ^openib ./train ...
```

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## Q: Why am I getting the following errors?

```
...[btl_tcp_endpoint.c:803:mca_btl_tcp_endpoint_complete_connect] ... failed: Connection refused (111)
```

Sometimes MPI fails to choose a proper network interface. You need to manually specify the correct one by adding

```
--mca btl_tcp_if_include [your-network-interface]
```

in your `mpirun` command.

Note that `[your-network-interface]` should be replaced by the name of a network interface that used to communicate with all the other nodes.

On Unix-like system, you may type `ifconfig` to see all network interfaces on your machine. See [Open MPI's FAQ](#) for more details.

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## Q: Why am I getting the following errors?

```
Host key verification failed.
-----
```

```
ORTE was unable to reliably start one or more daemons.
This usually is caused by:
```

- \* not finding the required libraries and/or binaries on one or more nodes. Please check your `PATH` and `LD_LIBRARY_PATH` settings, or configure OMPI with `--enable-orterun-prefix-by-default`
- \* lack of authority to execute on one or more specified nodes. Please verify your allocation and authorities.
- \* the inability to write startup files into `/tmp` (`--tmpdir/orte_tmpdir_base`). Please check with your sys admin to determine the correct location to use.
- \* compilation of the orted with dynamic libraries when static are required (e.g., on Cray). Please check your configure cmd line and consider using one of the contrib/platform definitions for your system type.
- \* an inability to create a connection back to mpirun due to a

lack of common network interfaces and/or no route found between them. Please check network connectivity (including firewalls and network routing requirements).

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Please make sure all the machines specified in your `machinefile` are accessible via SSH login without password prompt.

Note that the **first** line in `machinefile` should be the IP of the **master** machine.

If you still encounter such errors, please try to replace `localhost` with `<MASTER-MACHINE-IP>` in your `machinefile`.

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Please contact [Chih-Jen Lin](#) for any question.