



HCOLL / IBM Power System S822LC (8335-GTB) SUPPORT

README

Rev 1.1

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Overview

This README applies specifically to the HCOLL 3.7 support for the IBM Power System S822LC (8335-GTB) server service pack released in 1Q17. The scope is to define restrictions which may be applicable to end-user applications looking to exploit/utilize the fabric collective accelerator.

HCOLL Restrictions

The following HCOLL restrictions exist for the HCOLL 3.7 / IBM 8335-GTB release:

- The MPI_THREAD_MULTIPLE threading mode is not currently supported for Spectrum MPI applications exploiting HCOLL.
- Supporting “mixed” datatypes is not the default HCOLL behavior. It must be enabled by setting the HCOLL parameter:

```
- x HCOLL_CONVERT_DTE_TO_BYTE=1
```

This will pack all non-contiguous datatypes into a contiguous buffer which is subsequently passed down into HCOLL where it is handled as a contiguous data type.