Groups and Communicators

George Bosilca

The generic process type

- Store information about the process name
  - Used by orte to deliver information
- Store the master convertor for the peer
- The PML process pointer
- And some flags: indicate if the process is a local process (i.e. on the same node).

Groups

- A set of nodes indexed by their rank (pointers to their process structure).
- All the functions required to create sub-groups from other groups:
  - Union, inclusion, exclusion, intersection, difference
  - Range inclusion and range exclusion.

MPI Communicator

- Hold all information related to the MPI level
  - Local and remote group
  - Fortran index
  - Attribute hash table
  - Error handler
  - Collective modules and data
  - PML communicator information and array of pointer to processes

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The BTL process type

- Store information about how to connect to the remote process using this specific network
- Amount of information depend on the network