

MPI Forum 2020/07/12 Virtual Meeting

Groups, Contexts, Communicators and Caching Chapter Diff

Two types of changes

- Limited (formal) changes
 - No semantics modifications
 - The tex file is modified, but the pdf is not necessarily
- More substantial changes
 - New features introduced
 - Modification of existing features

Limited (formal) changes

- Pythonization for all bindings (not so limited ...)
- Consistent use of
 - Inter-communicator(s)/Inter-Communicator(s)
 - Intra-communicator(s)/Intra-Communicator(s)
- Replacement of "-" with \hyphen/ command
- Process → MPI process
- Replacement of offensive language
- Better formatting
 - e.g., \mpiarg → \const
- Added index references for missing constants and functions
 - e.g., \const → \constmain, etc.
- Examples description
- Typos corrections, whitespace removal, etc.



Substantial changes (1)

- Changes dealing with Sessions
 - spm/wpm text added when necessary
 - New function: MPI_Group_from_session_pset
 - New function: MPI_Comm_create_from_group
 - New function: MPI_Intercomm_create_from_group

Substantial changes (2)

- Changes dealing with HW topologies
 - Two new split_type values:
 - MPI COMM TYPE HW GUIDED
 - Prototype modified for MPI_Comm_split_type: info argument is now INOUT instead of IN
 - MPI_COMM_TYPE_HW_UNGUIDED
 - 2 new code examples, 1 new figure and 2 new references
 - Clarifications for both:
 - MPI Comm_split_type
 - MPI_COMM_TYPE_SHARED: clear reference to MPI_Win_allocate_shared

Substantial changes (3)

- MPI Comm dup clarifications w.r.t:
 - Keyvalues
 - Info hints
 - Topology information
- MPI_Comm_idup clarifications
- New function: MPI_Comm_idup_with_info
- New info keys:
 - mpi_assert_no_any_tag
 - mpi assert no any source
 - mpi_assert_exact_length
 - . . .
- Changes dealing Communicator info management
 - MPI Comm get/set info clarifications
 - New advice to users
 - One advice removed

