MPI — One Sided Communications

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One Sided Communications

Modern hardware can operate with Remote Memory Access (RMA)

- Easier implementation of some algorithms;
- Performance improvement;
- Potentially increase overlap;

In particular, RMA allows different processes to be more decoupled from each other, since there is no need for a strict handshaking protocol.



How do they work?

- Processes have to define a window that is visible to other processes;
- Data transfers can be executed during an exposure epoch;
- Both *put* and *get* operations are available.

