MPI Send and Recv Semantics

- These are “standard mode”, blocking calls.
- Send returns when `buf` may be re-used; `Recv` returns when data in `buf` is available.
- Count consecutive items of type `datatype`, beginning at `buf`, are sent to process with rank `dest`.
- Tag can be used to distinguish among messages from the same source.
- Messages are non-overtaking.
- Buffering policies depend on implementation.
Inside MPI_Send and MPI_Recv

Sending Process

Program Memory

System Buffer

MPI_Send

Receiving Process

System Buffer

Program Memory

MPI_Recv