

Appendix C

Reduction Operations

<u>NAME</u>	<u>MEANING</u>
MPI_MAX	Maximum
MPI_MIN.....	Minimum
MPI_SUM.....	Sum
MPI_PROD.....	Prod
MPI_LAND.....	Logical and
MPI_BAND.....	Bit-wise and
MPI_LOR.....	Logical or
MPI_BOR.....	Bit-wise or
MPI_LXOR.....	Logical xor
MPI_BXOR.....	Bite-wise xor
MPI_MAXLOC.....	Max value and location
MPI_MINLOC.....	Min value and location

Allowed Datatypes

<u>Operation</u>	<u>Allowed Types</u>
MPI_MAX, MPI_MIN.....	Integer, Float
MPI_SUM, MPI_PROD.....	Integer, Float, Complex
MPI_LAND, MPILOR, MPILXOR.....	Logical
MPI_BAND, MPI_BOR, MPI_BXOR.....	Integer, Byte
MPIMAXLOC, MPI_MINLOC.....	Need special datatypes