* MPI\_INIT (ierr): *Initialize MPI*
* MPI\_COMM\_SIZE (comm, nProc, ierr): *Find out how many processes there are*
* MPI\_COMM\_RANK (comm, myid, ierr): *Find out which process I am*
* MPI\_BARRIER (comm, ierr): *Ensure every process has completed the computation*
* MPI\_FINALIZE (ierr): *Terminate MPI*
* MPI\_REDUCE (sendbuf, recvbuf, count, datatype, operation, root, comm, ierr)

*It performs a reduction of data from each process onto the specified root process. The root process must wait for all other process to enter the call.*

* MPI\_ALLREDUCE (sendbuf, recvbuf, count, datatype, operation, comm, ierr)

*There is no root, all processes receive the results.*