```
#include "mpi.h"

int main(int argc, char *argv[]) {
    int pad = 0, dimx = 480+pad, dimy = 480, dimz = 400, nreps = 100;
    int pid=-1, np=-1;

    MPI_Init(&argc, &argv);
    MPI_Comm_rank(MPI_COMM_WORLD, &pid);
    MPI_Comm_size(MPI_COMM_WORLD, &np);

    if(np< 3) {
        if(0 == pid) printf("Needed 3 or more processes.\n");
        MPI_Abort( MPI_COMM_WORLD, 1 ); return 1;
    }
    if(pid < np - 1)
        compute_process(dimx, dimy, dimz/ (np - 1), nreps);
    else
        data_server( dimx,dimy,dimz);

    MPI_Finalize();
    return 0;
}
```