

## Parallel Processing

### Project 5

turnin code: pp\_p5

Enhance your MPI library to support the following:

```
int MPI_Reduce(const void *sendbuf, void *recvbuf, int count, MPI_Datatype datatype,  
               MPI_Op op, int root, MPI_Comm comm);  
  
int MPI_Op_create(MPI_User_function *user_fn, int commute, MPI_Op *op);
```

MPI\_Reduce only has to support MPI\_INT as the data type.

MPI\_Reduce is only required to support MPI\_SUM as its an available *\*built-in\** op.

However, it should also provide the possibility for the user to provide a user-defined op by creating one with MPI\_Op\_create. The commute argument will not be relevant for our purposes.