

## Worksheet #33: Combining Task and MPI parallelism

Name: \_\_\_\_\_

Net ID: \_\_\_\_\_

Compute the critical path length for the MPI program shown on the right in pseudocode, assuming that it is executed with 2 processes/ranks. (Assume that the send/recv calls in lines 5 & 10 match with each other.)

```
1. main() {
2.     if (my rank == 0)
3.         finish { // F1
4.             async await(req) doWork(1);
5.             MPI_Irecv(rank 1, ... , &req);
6.             doWork(1);
7.         }
8.     else {
9.         doWork(1);
10.        MPI_Send(rank 0, ...);
11.    }
12. } // main
```

