

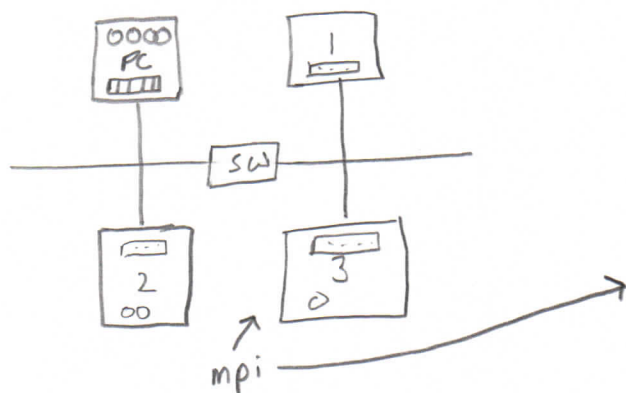
Subject:

Date:

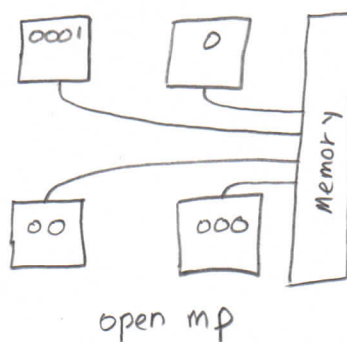
MPI

- Compile MPI  $\rightarrow$  mpicc
- Run MPI  $\rightarrow$  mpirun

distributed-memory



Shared Memory



MPI\_Gather

MPI\_Barrier  $\leftarrow$  Prevents actions from occurring until finished

MPI\_Scatter

MPI\_Broadcast

MPI\_Scatter ( $A, work, int, A, work, int, master, world$ )

MPI\_Bcast

( $B, n \times n, int, master, world$ )

for i  
for j  
for k } dot-product

MPI\_Gather

( $C, work, int, c + w * id,$