



More Common Powertools

- powertools list powertools and common commands not standard on linux systems
- sj show jobs in the queue for the current user
- starttime show estimated start times for a job
- mailme E-mail yourself a file
- clusterstate show a summary of the current state of the nodes in the cluster



MICHIGAN STATE

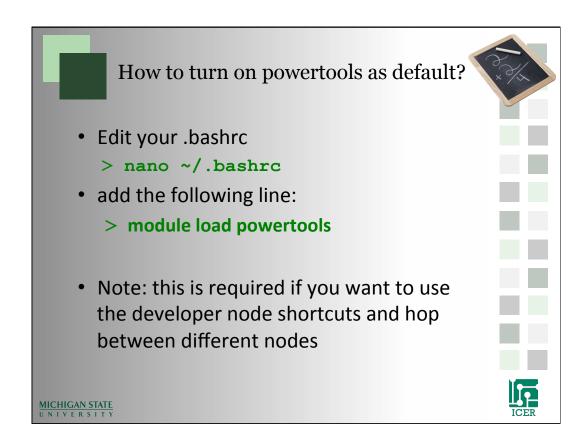


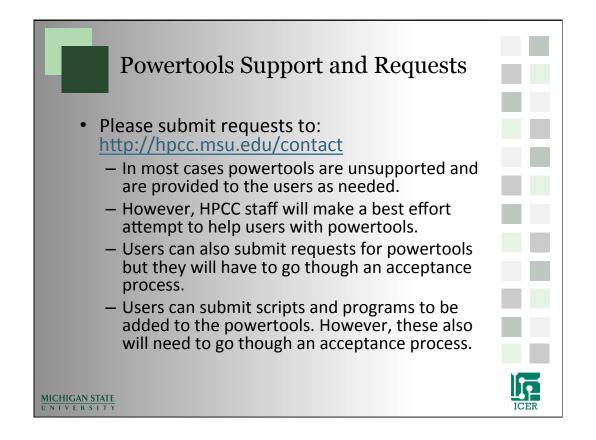
Even More Powertools

- licensecheck check the availability of licenses for supported software, including:
 - matlab, abaqus, fluent, and others
- getexample provides a copy of examples for various tasks written by iCER staff
- quota list your home directory disk usage

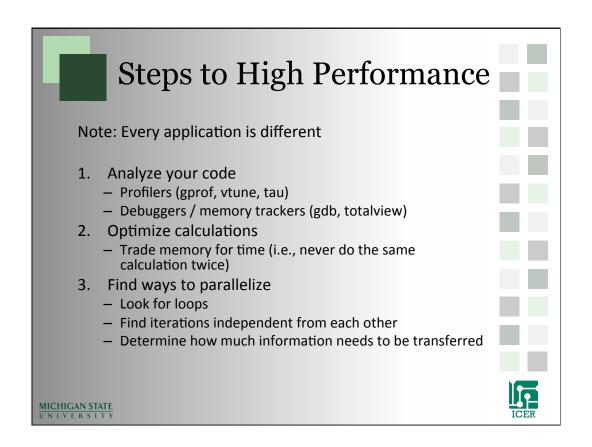


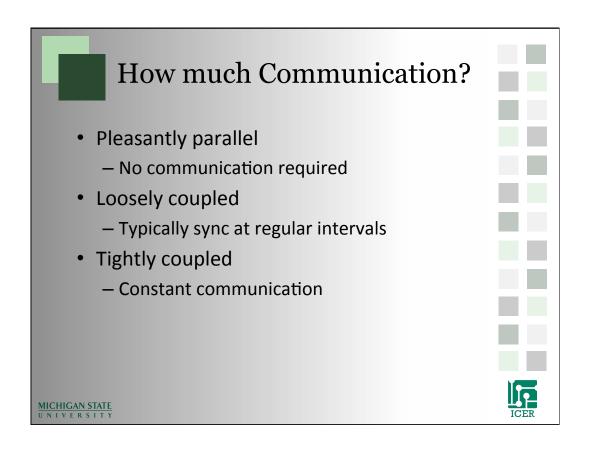
MICHIGAN STAT

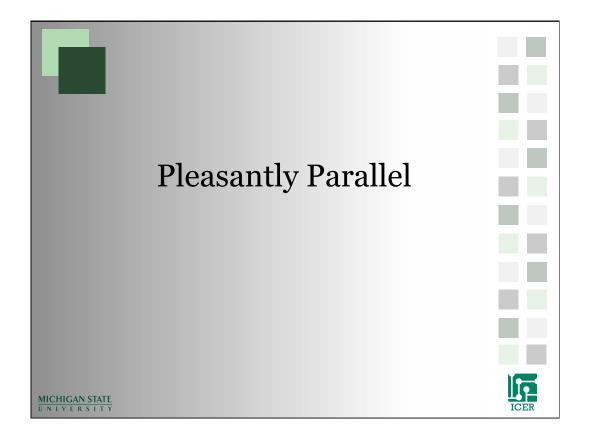


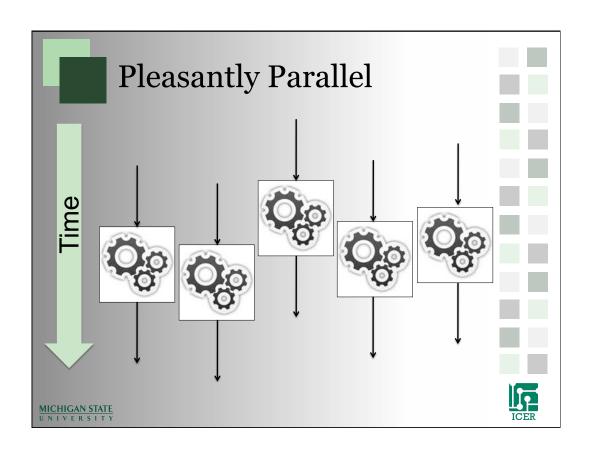


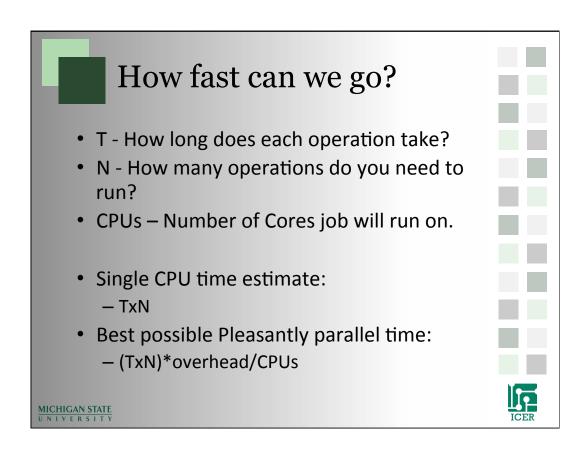


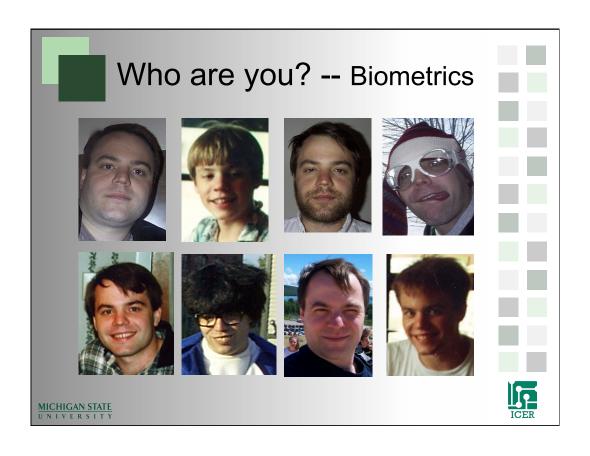


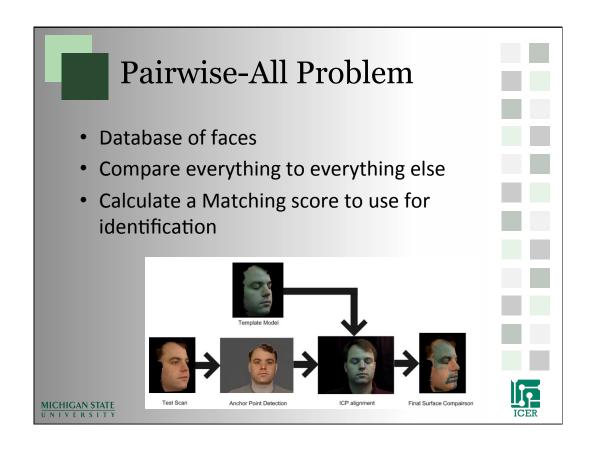


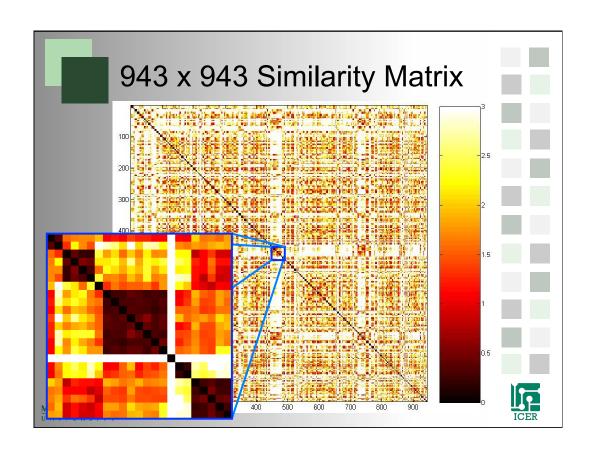


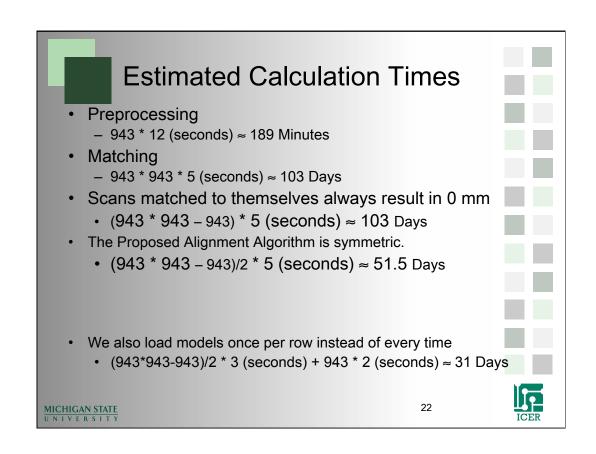


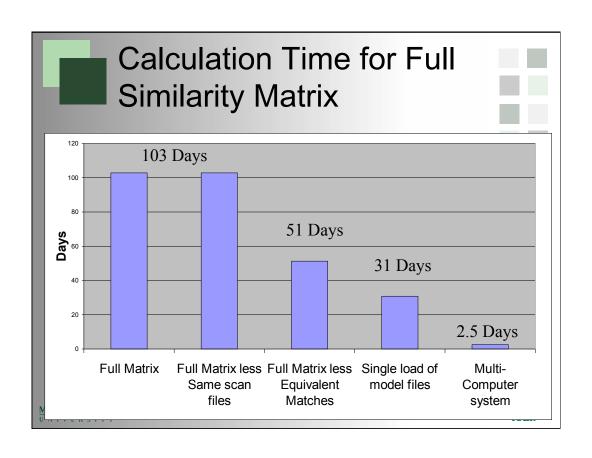


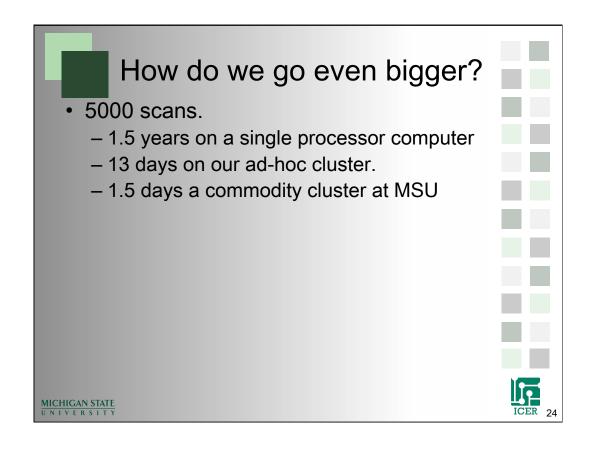


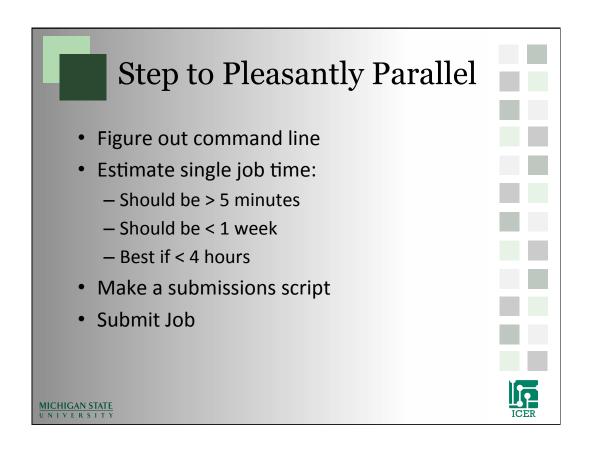


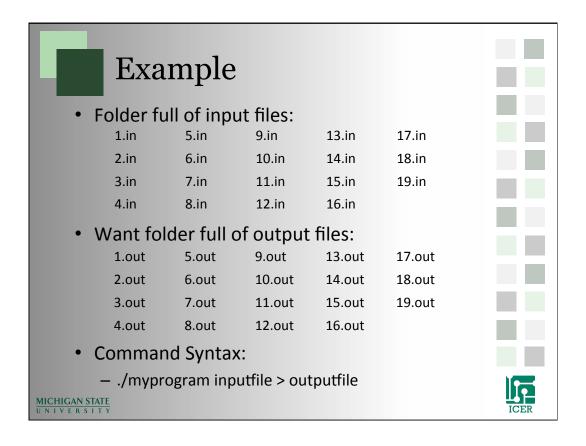


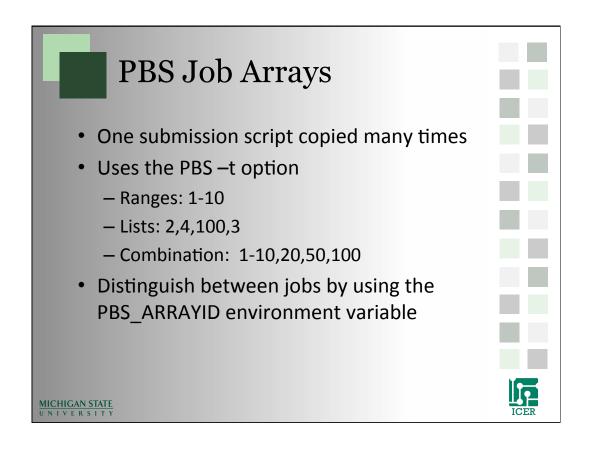


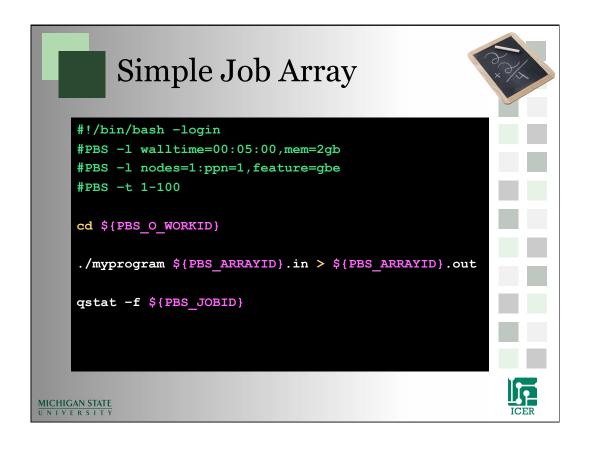


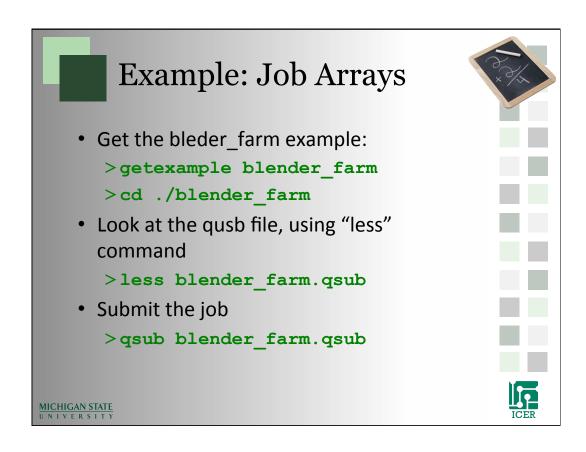


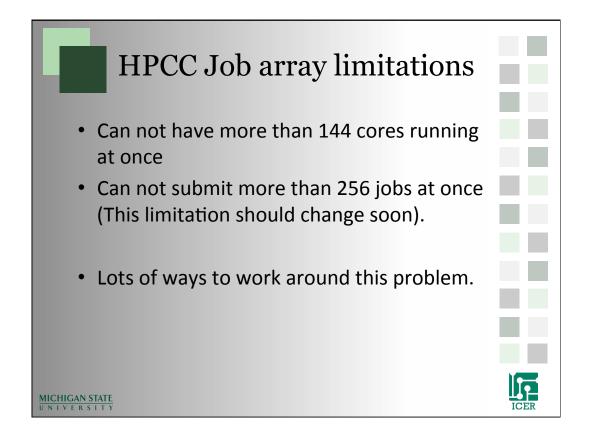


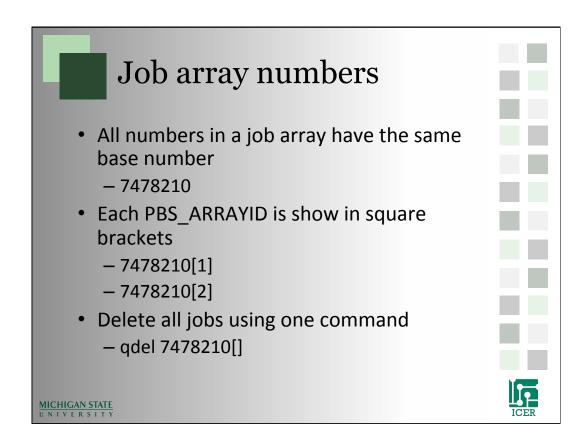


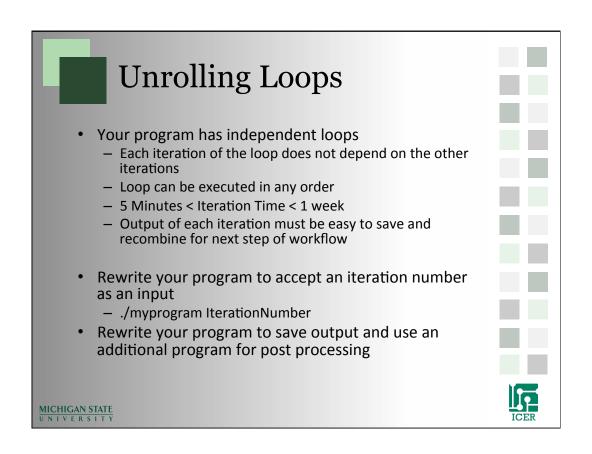










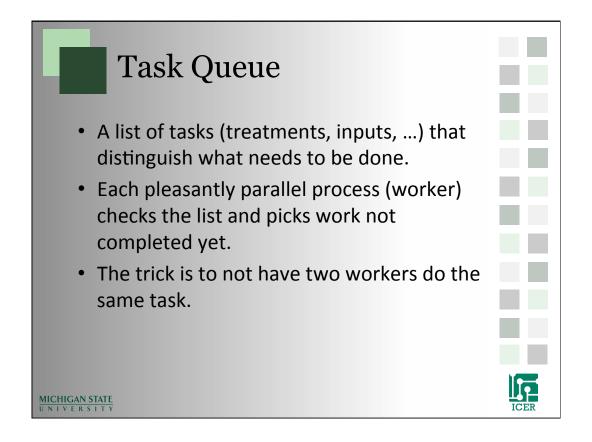


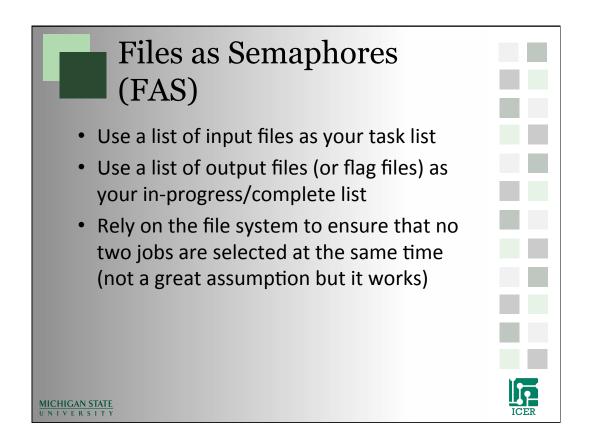
```
#!/bin/bash -login
#PBS -l walltime=00:05:00
#PBS -l nodes=1:ppn=1,feature=gbe
#PBS -t 1-100

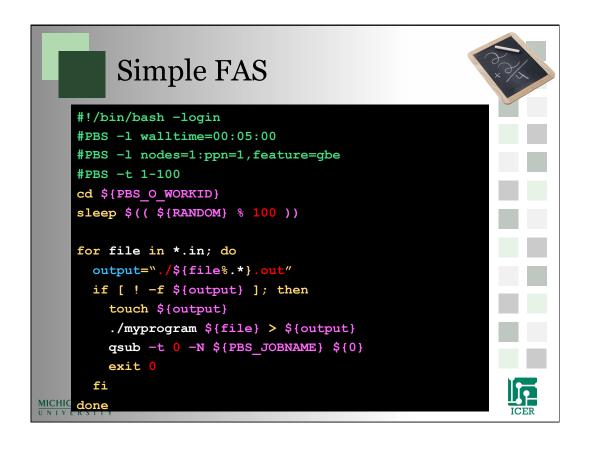
cd ${PBS_O_WORKID}

./myprogram ${PBS_ARRAYID}

qstat -f ${PBS_JOBID}
```

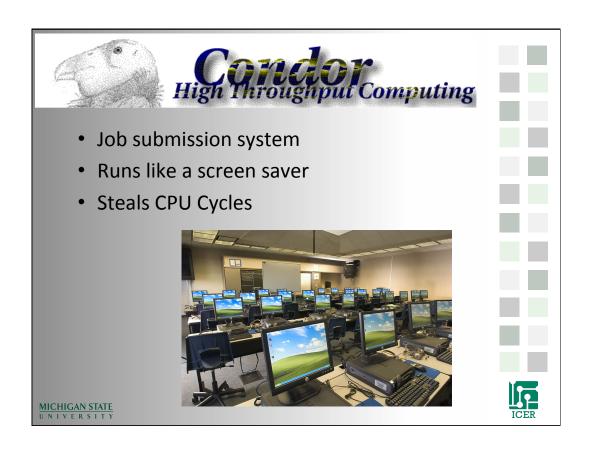


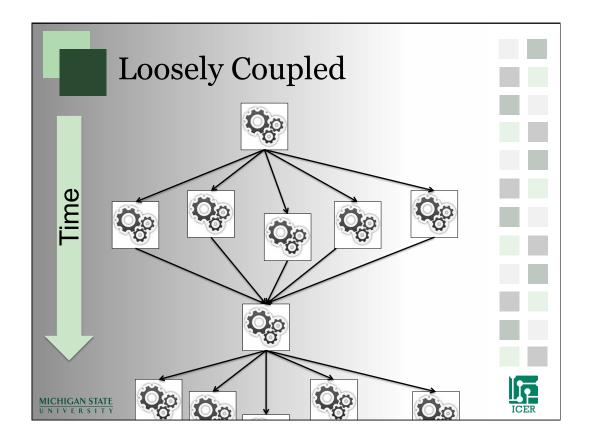


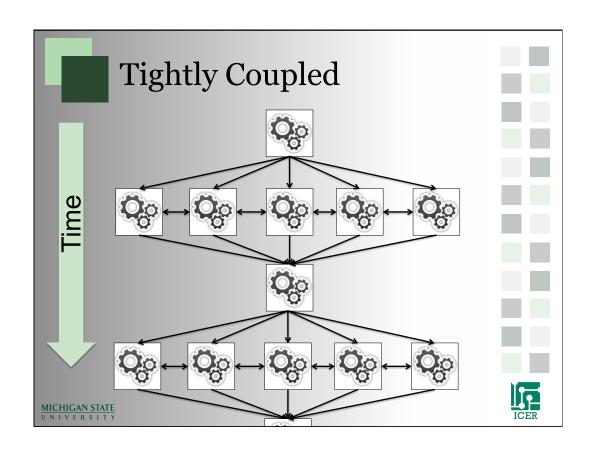


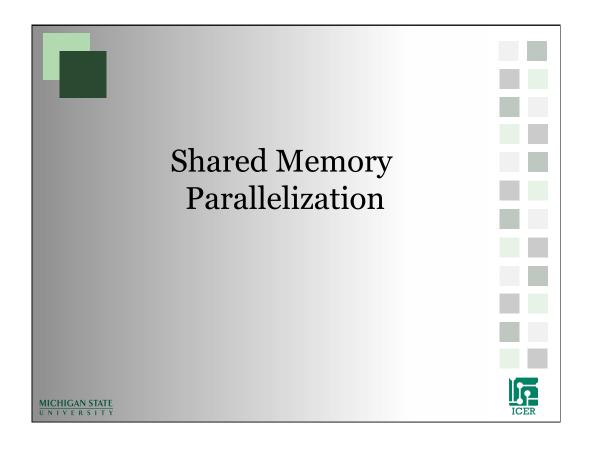


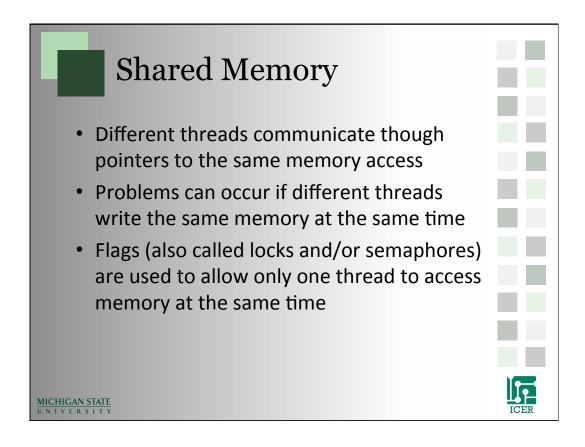


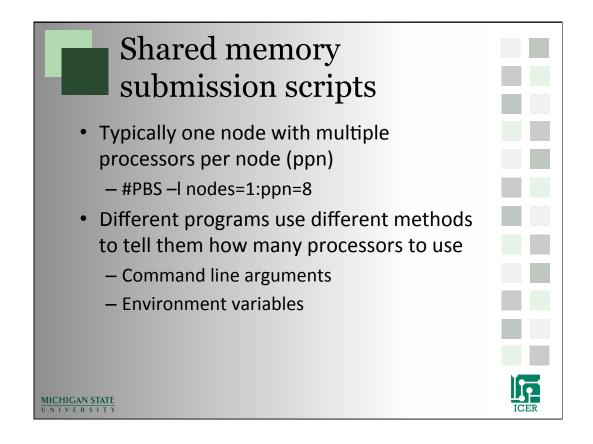


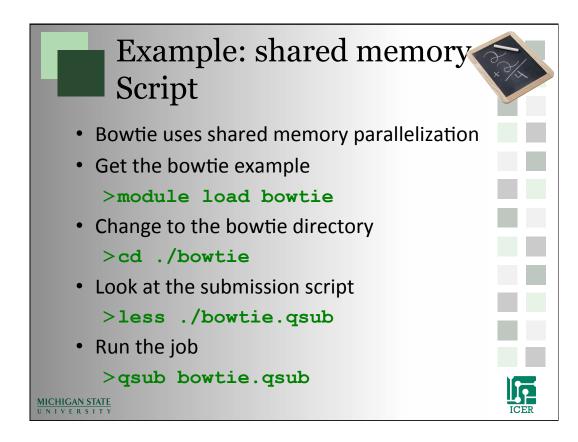


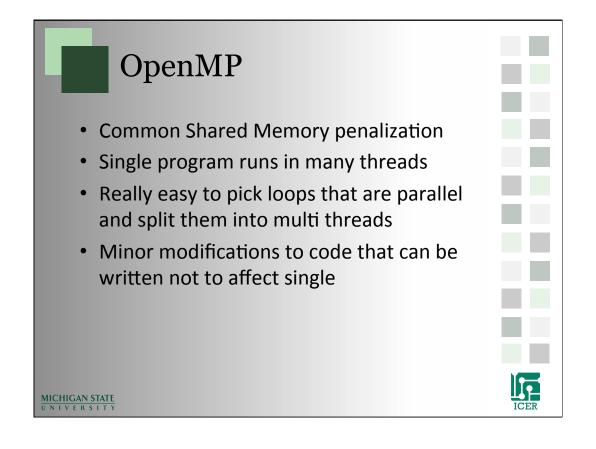












```
#!/bin/bash -login
#PBS -l walltime=00:01:00
#PBS -l nodes=1:ppn=1, feature=gdb

cd ${PBS_O_WORKID}
OMP_NUM_THREADS=`cat ${PBS_NODES} | wc -l`
export NUM_OMP_THREADS
./simpleOMP
qstat -f ${PBS_JOBID}
```

