

## Summary of Commands Used in HPCC Workshop - <https://wiki.hpcc.msu.edu/x/JwJiAQ>

```
ssh dev-intel10  
echo "Hello world"
```

```
pwd  
cd /mnt/scratch/  
ls  
cd ~
```

```
man qsub
```

```
cat .bashrc  
mkdir hpccworkshop  
cd ./hpccworkshop
```

```
module list  
module avail  
powertools
```

```
module load powertools  
powertools  
getexample  
getexample helloworld
```

```
cd ~/hpccworkshop/helloworld  
ls -la  
ls -la > numOfLines  
cat numOfLines  
wc -l * | sort -n
```

```
cd ~/hpccworkshop/helloworld  
cat minlines.txt  
./minlines.txt
```

```
ls -la  
chmod u+x minlines  
ls -la  
./minlines
```

```
env  
echo ${MACHTYPE}  
export MYVAR="Hello World"  
echo ${MYVAR}
```

```
pwd  
{CC} -O3 -o hello hello.c  
./hello
```

```
xeyes  
firefox &  
ps <- Find the process ID #### for firefox
```

```
kill ####
```

```
cd ~/hpccworkshop/helloworld  
nano hello.qsub
```

```
qsub simple.qsub  
showq
```

```
qstat -f #####  
showstart -e all #####
```

## ADVANCED WORKSHOP

```
ssh eval-k40
```

```
module load powertools  
powertools
```

```
dev
```

```
nano ~/.bashrc
```

```
getexample  
getexample blender_farm  
cd ./blender_farm  
less blender_farm.qsub  
qsub blender_farm.qsub
```

```
getexample bowtie  
cd ./bowtie  
less ./bowtie.qsub  
qsub bowtie.qsub
```

```
module unload OpenMPI  
module load MVAPICH  
module swap OpenMPI MVAPICH
```

```
module load powertools  
getexample helloMPI  
./README
```

```
echo $HOST >> ./hostfile  
echo $HOST >> ./hostfile  
echo $HOST >> ./hostfile  
echo $HOST >> ./hostfile  
mpirun -np 4 -hostfile ./hostfile helloMPI
```

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Link to slides:

<https://wiki.hpcc.msu.edu/x/6QFiAQ>

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