

## Ficheiro cpi.pbs

```
#!/bin/bash
#PBS -l walltime=03:00
#PBS -j oe
#PBS -N a
#PBS -l nodes=4:ppn=2

cat $PBS_NODEFILE
cd ~/PCP
mpirun -np 8 -machinefile $PBS_NODEFILE -mca btl tcp,sm,self ./cpi-openmpi
```

## Linha de comandos

```
$module add gnu/openmpi_eth/1.8.2
$module add gnu/4.9.0
```

```
$mpicc -o cpi-openmpi ./cpi.c
```

```
$qsub -V -lnodes=4:ppn=2 -q mei-testes cpi.pbs
```

```
95395.search6.di.uminho.pt
```

```
$less a.o95396
```

```
compute-101-50/compute-101-50/compute-562-6/compute-562-6/
compute-562-1/compute-562-1/compute-432-2/compute-432-2
```

```
Process 0 on compute-101-50.local
Process 1 on compute-101-50.local
pi is approximately 3.1416009869231249, Error is 0.0000083333333318
wall clock time = 0.002083
Process 6 on compute-432-2.local
Process 7 on compute-432-2.local
Process 4 on compute-562-1.local
Process 5 on compute-562-1.local
Process 3 on compute-562-6.local
Process 2 on compute-562-6.local
```