

After Login to ANTYA

```
$ module load git/2.25.0
```

```
$ git clone https://github.com/mkhpc/hpctraining.git
```

Please make sure to add the proxy details in your .bashrc file before running the above command:

```
export https_proxy="http://userid:password@10.20.1.222:3128"
```

```
export http_proxy="http://userid:password@10.20.1.222:3128"
```

```
export ftp_proxy="ftp://userid:password@10.20.1.222:3128"
```

Job Submission on ANTYA for Labs

\$ cat jobscript.sh

#!/bin/bash

JOB NAME

#PBS -N OpenMP_test

QUEUE NAME

#PBS -q regularq

COMPUTE RESOURCES REQUESTED FOR THE JOB SELECT = NO. OF CHUNKS/NODES, NCPUS = NO. OF CORES PER CHUNK/NODE

#PBS -l select=1:ncpus=40

**## SPECIFY THE EXECUTION TIME LIMIT FOR THE CODE/APPLICATION IN HRS:MINS:SECS
FORMAT**

#PBS -l walltime=00:30:00

**## JOIN THE OUTPUT AND ERROR FILES INTO A SINGLE FILE WITH NAME
<JOBNAME>.O<JOBID>**

#PBS -j oe

EXPORT ALL ENVIRONMENT VARIABLES

#PBS -V

LOAD A MODULE BASED ON APPLICATION/CODE REQUIREMENT

module load gcc/8.2.0

ENVIRONMENT VARIABLE FOR ACCESSING THE WORKING DIRECTORY WITH PBS VARIABLE

cd \$PBS_O_WORKDIR

RUN COMMAND BASED ON CODE/APPLICATION

gcc -fopenmp program_name.c

./a.out

Job Submission

\$ qsub jobscript.sh

Check your job

\$ qstat -an1

Vtune Profiling

- Also add the below command in your job script run section:

```
# Source the path of intel tools
```

```
source /home/application/intel-2020/parallel_studio_xe_2020.1.102/psxevars.sh
```

```
# RUN COMMAND BASED ON CODE/APPLICATION
```

```
sh v0.sh
```

Launch the script now

```
qsub regularq.sh
```