7.1 Interactive execution

To use the newly created "test" account to compile and execute the application *interactively* through the resource manager, execute the following (note the use of **prun** for parallel job launch which summarizes the underlying native job launch mechanism being used):

```
# Switch to "test" user
[sms]# su - test
# Compile MPI "hello world" example
[test@sms ~]$ mpicc -03 /opt/ohpc/pub/examples/mpi/hello.c
# Submit interactive job request and use prun to launch executable
[test@sms \tilde{}] $ salloc -n 8 -N 2
[test@c1 ~]$ prun ./a.out
[prun] Master compute host = c1
[prun] Resource manager = slurm
[prun] Launch cmd = mpiexec.hydra -bootstrap slurm ./a.out
Hello, world (8 procs total)
   --> Process # 0 of 8 is alive. -> c1
   --> Process # 4 of 8 is alive. -> c2
   --> Process # 1 of 8 is alive. -> c1
   --> Process # 5 of 8 is alive. -> c2
   --> Process # 2 of 8 is alive. -> c1
   --> Process # 6 of 8 is alive. -> c2
   --> Process # 3 of 8 is alive. -> c1
   --> Process # 7 of 8 is alive. -> c2
```