**1.Making shortcuts**

1.1 open bash profile

*nano ~/.bash\_profile*

In the bash\_profile

(

#Aliases

#Establishing custom commands below

alias edit="open ~/.bash\_profile"

alias login\_tacc="ssh maxcurie@stampede2.tacc.utexas.edu"

)

1.2 compile the new bash profile

*source .bash\_profile*

1.3 If you have following problem

@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

@ WARNING: REMOTE HOST IDENTIFICATION HAS CHANGED! @

@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

IT IS POSSIBLE THAT SOMEONE IS DOING SOMETHING NASTY!

Someone could be eavesdropping on you right now (man-in-the-middle attack)!

It is also possible that the RSA host key has just been changed.

The fingerprint for the RSA key sent by the remote host is

REMOVED FOR SECURITY REASONS

Please contact your system administrator.

Add correct host key in /home/USER/.ssh/known\_hosts to get rid of this message.

Offending key in /home/USER/.ssh/known\_hosts:10278

Password authentication is disabled to avoid man-in-the-middle attacks.

Keyboard-interactive authentication is disabled to avoid man-in-the-middle attacks.

–

Type the following to add a hostname

*ssh-keygen -R HOSTNAME.*

**2. Get file from GENECode**

*rm -rf genecode/*

*git clone https://maxcurie@gitta.rzg.mpg.de/~GENE/guest/git.py/gene.git  -b release-1.8 genecode*

*git clone*[*https://maxcurie@gitta.rzg.mpg.de/~GENE/guest/git.py/gene.git*](https://maxcurie@gitta.rzg.mpg.de/~GENE/guest/git.py/gene.git)*-b unstable genecode*

3. **Configure GENE**

3.1. to compile

*gmake*

3.2 Change for stampede2

3.2.1. *cd makefiles*

3.2.2. Make directory for stampede2

*mkdir stampede2*

3.2.3. Cope from stampede to stampede2

*cp -R ~/genecode/makefiles/stampede/stampede.mk ~/genecode/makefiles/stampede2;*

*cp -R ~/genecode/makefiles/stampede/stampede.mk ~/genecode/makefiles/stampede2*

3.2.3. Change the name from “stampede.mk” to “stampede2.mk”

*mv stampede.mk stampede2.mk*

3.2.4. Change “stampede” to “stampede2” in submit.cmd files

*nano submit.cmd (vi for CORI)*

3.2.5. In makefiles, Machine.def, add a new machine stampede2

*nano machine.def*

3.2.6. make compile the changes

*gmake -j*

**4. Changing the parameter**

4.1 get new prob folder

*cd ..*

*ls*

*./newprob (getting a new prob folder)*

*ls*

4.2 Change the parameter in submit.cmd

*cd prob01*

nano submit.cmd

Add those lines

(

#SBATCH -N 1 #Total node to use for the task

ibrun ./gene\_stampede2

#SBATCH -A ITERP # Which job is for ...

)

**5. Submit a job**

5.1 Submit the job

*Sbatch submit.cmd*

5.2 check

*Squeue -u maxcurie*

**6. For test run**

6.1 create a folder in scratch folder (which is erased every week. )

*cds*

*mkdir name\_of\_the\_folder*

6.2 change the parameters file

*cd ~*

*cd genecode*

*cd prob01*

*nano parameters*

*In parameter file*

*(”*

*n\_spec = 1 ! # species*

*nx0 = 16 ! # radial grid pts*

*nky0 = 1 ! # kys*

*nz0 = 16 ! # parallel grid pts*

*nv0 = 16 ! # vpar grid points*

*nw0 = 4 ! # mu grid points*

*diagdir = '/scratch/06062/maxcurie/test01'*

*nonlinear = F*

*”)*