

SLRM template

aua036.slm:

```
#!/bin/bash
#SBATCH --reservation=boehm      # reservation name
#SBATCH -J aua036                # job name
#SBATCH -N 5                     # number of nodes
#SBATCH --ntasks-per-node=16    # uses all cpus of one node
#SBATCH --ntasks-per-core=1
#SBATCH --threads-per-core=1
#SBATCH --mail-type=BEGIN,END
#SBATCH --mail-user=jakob.franz.gruber@geo.tuwien.ac.at

### Clean correlation directory
rm *input
rm *calc
rm *flag
rm *im

### Define session name
sessname=aua036

### Set difx version number manually if using DIFX trunk
#export DIFX_LABEL="2.5.2"

### Set particular hops station 2 letter code
#HOPS_STATION_CODE=/global/lv71175/meq/DATA/r1840/correlation/hops_stations_code_r1
840.txt

### Generate machines file with auxiliary function
/home/lv71175/jgruber/gen_machines_slurm_serial.sh

### Execute vex2difx
vex2difx $sessname.v2d

### Start Calc server and wait a bit
startCalcServer &
sleep 10

### Correlation of several scans
for i in $(seq -w 01 03) ; do
    calcif2 $sessname_"${i}.calc
    rm -rf $sessname_"${i}.difx/
    NP=$SLURM_NTASKS
    mpirun -np $NP -machinefile machines mpifxcorr $sessname_"${i}.input
    difx2mark4 $sessname_"${i}
done

exit
```