

Exercise 1

Thanks to Eoin! ¹

```
#
#   Minim suite
#   Can cycle for 2018081900 --> 2018081921
#   One cycle uses about 2.8 GB in $PERM on cca
#
# on ecgate
#
mkdir -p $HOME/hm_home/daMinim
cd $HOME/hm_home/daMinim
HarmonieDA setup
#sed -i 's/\.perm\./.scratch./g' config-sh/config.ecgb-cca # U
HarmonieDA start DTG=2018081900 PLAYFILE=minim
```

Then use R_plots script from Antonin to plot increment

¹HarmonieSystemTraining2019/Practicals

Exercise 2

Thanks to Eoin!

```
#
#   Minim suite
#   Can cycle for 2018081900 --> 2018081921
#   One cycle uses about 2.8 GB in $PERM on cca
#
# on ecgate
#
mkdir -p $HOME/hm_home/daSingleObs
cd $HOME/hm_home/daSingleObs
HarmonieDA setup
#sed -i 's/\.perm\./.scratch./g' config-sh/config.ecgb-cca
sed -i 's/USEOBSOUL=0/USEOBSOUL=1/g' scr/include.ass
sed -i 's/SINGLEOBS=no/SINGLEOBS=yes/g' sms/config_exp.h
HarmonieDA start DTG=2018081900 PLAYFILE=singleobs
```

Use R_plots script from Antonin to plot increment

Adjoint test

In experiment directory on ecgate

- HarmonieDA co nam/harmonie_namelists.pm
- Add LADTEST=TRUE to NAMTESTVAR namelist in %minim. See %minim4d for an example.
- rerun the initRun task.
- rerun Minim task.
- Expected output:

```
ADTEST TEST OF ADJOINT CHAVARIN+CNT3TL
ADTEST -----
ADTEST          1234567890123456
ADTEST <Y,F .X>= 0.3630772052214011E+01
ADTEST <F*.Y,X>= 0.3630772052213989E+01
ADTEST The difference is      27.0 times machine precision.
ADTEST -----
ADTEST End Adjoint Test
ADTEST -----
```