

Generate a run script (mkexp)

Advanced use cases

Set up experiments for other people's checkout

If you want to use a model checked out and built by someone else, all you need is read permission for that checkout.

[recipe_mkexp_external.sh](#)

```
1. # Identify the model checkout you want to use
2. MODEL_CHECKOUT='/path/to/other/checkout'
3. # set MODEL_CHECKOUT=/path/to/other/checkout # for (t)csh
4.
5. # Load modules for checkout
6. module use $MODEL_CHECKOUT/etc/Modules
7. module add icon-levante
8.
9. # ** ONLY ** for old builds, eg. nextGEMS cycle 2: Load modules
   # needed for run-time
10. # module use /sw/intel/oneapi/compiler/2021.3.0/modulefiles
    /sw/intel/oneapi/tbb/2021.3.0/modulefiles
    /sw/intel/oneapi/mkl/2021.3.0/modulefiles
11. # module add compiler mkl compiler-rt
12.
13. # Create subdirectory for your setup and a subdirectory 'run'
14. MODEL_SUBDIR='my_subdir'
15. mkdir -p $MODEL_SUBDIR/run
16. cd $MODEL_SUBDIR/run
17.
18. # Set up your own experiment
19. EXP_ID='xyz0123'
20. ACCOUNT='ab4567'
21. SCRIPT_ROOT='$HOME' # or '$WORK_ROOT' or '$DATA_ROOT' (use single
    quotes here!)
22. # ** EITHER ** create a new experiment config file
23. EXP_TYPE='amip-R2B4'
24. setconfig $EXP_ID.config EXP_TYPE=$EXP_TYPE ACCOUNT=$ACCOUNT
    MODEL_SUBDIR=$MODEL_SUBDIR SCRIPT_ROOT=$SCRIPT_ROOT >
    $EXP_ID.config
25. # ** OR ** adapt an existing experiment config file
26. OTHER_CONFIG='/path/to/other.config'
27. setconfig $OTHER_CONFIG ACCOUNT=$ACCOUNT
    MODEL_SUBDIR=$MODEL_SUBDIR SCRIPT_ROOT=$SCRIPT_ROOT >
    $EXP_ID.config
28. # Possibly edit the result further
```

```
29. your_editor $EXP_ID.config
30.
31. # Create your own run scripts
32. mkexp $EXP_ID.config
```

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