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Generate a run script

First step

There are several pre defined experiments available in the run-directory, listed as exp.<experiment-name>. To generate a run script for one of these experiments do

```
./make_runscripts <experiment-name>
```

Be careful not to forget experiment-name. make_runscripts will generate **all** possible runscripts otherwise. make_runscripts only works after configuring the model, as it needs the proper information of the compiler used.

The resulting runscript exp.<experiment-name>.run, for some experiments also a postprocessing script post.<experiment-name>.run, will be stored in the run-directory and might need additional editing.

Use your experimenter ID

In general and to simplify collaboration it is an established way to copy a given script according to our **personalized naming convention**, see List of IDs.

Adaptations for accounting and parallelization

Example: Run the script as developer abc on Levante:

Copy the exp.amip experiment-template to your personal experiment-id:

```
cp run/exp.aes_amip run/exp.abc0001
./make_runscripts abc0001
cd run
```

Edit the file exp.abc0001.run and change the model settings (account e.g. mh0287):

```
#SBATCH --account=mpiaes
to
#SBATCH --account=mh0287
```

```
#SBATCH --nodes=1
to
#SBATCH --nodes=100
```

This number of notes fit for the default setting of the script, which is R2B8 resolution.

Submit the job:

 $update: \\ 2025/02/18 \\ models: icon: running_the_model: generate_a_runscript \\ https://wiki.mpimet.mpg.de/doku.php?id=models: icon: running_the_models: generate_a_runscript \\ https://wiki.mpimet.mpg.de/doku.php?id=models: generate_a_runscript \\ https://wiki.mpimet.mpg.de/doku.php.d$

sbatch exp.abc0001.run

You can check the status of your jobs with:

squeue -u <user>

Results will be written to icon-mpim/experiments/abc0001

In case you want to run one month of this experiment in R2B8 you have to adapt the run time in the run script: Set the run time of the job to at least 5 hours, also depending on your amount of output:

#SBATCH --time=05:00:00

- Monika Esch 2024/08/19 12:19

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Last update: 2025/02/18 16:11

