

R

Purpose: Statistics and plotting

Latest version: 4.0.2

License:  Free of use
Open Source - G

NU GPL _ext-link

Website: <https://www.r-project.org/> *_ext-link*

R is a language and environment for statistical computing and plotting.

R implements tools for data analysis, array operators (especially matrices), I/O features, graphical output features, and a high-level language (S) for integrating all of them, including user-defined variables, loops, etc.

SLURM Submit script example

For more information use the *Job Script Generator*.

Sbatch options:

The options shown in the example are detailed below. For more information and a more comprehensive list of available options, see the *sbatch command page*.

- **-J:** Name for the job's allocation.
- **-e:** Name of the stderr redirection filename.
- **-o:** Name of the stdout redirection filename.
- **-p:** Name of the partition (queue) where the job will be submitted.
- **-n:** Number of tasks.

R_example.slm

```
#!/bin/bash
#SBATCH -J R_example
#SBATCH -e R_example.err
#SBATCH -o R_example.out
#SBATCH -p std
#SBATCH -n 1
#SBATCH -t 0-02:00

module load apps/R/3.5.0

##
# Modify the input and output files!
INPUT_FILE=R_example.R
OUTPUT_FILE=R_example.out

##
# You don't need to modify nothing more
cp -r ${SLURM_SUBMIT_DIR}/${INPUT_FILE}
${SCRATCH}
cd ${SCRATCH}

srun Rscript ${INPUT_FILE} > ${OUTPUT_FILE}

cp ./${OUTPUT_FILE} ${SLURM_SUBMIT_DIR}
```

- **-c:** Number of cores per task.
- **-t:** Set the job's time limit. If the job don't finish before the time runs out, it will be killed.