

RAMSES job scripts database

(aka RAMSES slurm database)

P. Ocvirk

RAMSES job scripts db working group

Observatoire astronomique de Strasbourg

Universite de Strasbourg



Observatoire astronomique
de Strasbourg

RAMSES community in Strasbourg

- B. FAMAIEY (and past PhDs such as Guillaume THOMAS): PoR: Phantom of RAMSES for galaxy formation / evolution in MOND
- J. FREUNDLICH
- K. KRALJIC: large-scale structure / connexion to galaxy formation / evolution
- F. RENAUD: galaxy formation and evolution / galactic dynamics & link to star formation
- C. STAHL: Structure formation with non-gaussianities & Dirac-Milne
- D. AUBERT: EMMA + GINEA/Dyablo
- P. OCVIRK (and former PhD Joe LEWIS): The Epoch of Reionization, Cosmic Dawn Simulation project, responsable SNO RAMSES for Strasbourg, **Lead of ramses job scripts database work package**

RAMSES job scripts database

- Supercomputing use variations of job / slurm scripts.
- No 2 centers use the same syntax / options
- Large dispersion in documentation quality/availability
- => Build a curated database of scripts

- Computing center name main
- Supercomputer name main
- Execution date
- Simulation project name main
- Simulation project name alt
- Principal Investigator / author
- associated publication
- submit script (sbatch / bsub)
- NNODES
- NMPI domains
- NCPU
- NGPU
- NTHREADS
- compiler: pgi/intel/gnu/cray
- ...

- Repositories for incoming and DB
- Develop robust workflow / exception handling
- 14/10/2024: script DB KO meeting (PO and Corentin Cadiou)

RAMSES job scripts database

- Incoming repo: Upload your files here

- <https://seafile.unistra.fr/d/7cf0c55d4a0447a8aba5>

- DB and workflow repo in ramses-organisation

- <https://github.com/ramses-organisation/ramses-job-scripts>

- live since 22/10/2024

RAMSES job scripts database Summary

- RAMSES job script database is live since 22/10/2024
- <https://github.com/ramses-organisation/ramses-job-scripts>
- So far only 5 scripts have been ingested/indexed
- **Please send me YOUR SCRIPTS:**
 - ~3 scripts per person
 - Emphasize hardware variety
- <https://seafile.unistra.fr/d/7cf0c55d4a0447a8aba5>
- suggestions?



RAMSES USER MEETING 2025

Strasbourg 12-14 May 2025

Hackathon 15-16 May 2025

Observatoire astronomique de Strasbourg



RAMSES job scripts database

- Supercomputing use variations of job / slurm scripts.
- No 2 centers use the same syntax / options
- Large dispersion in documentation quality/availability
- => Benefit from a curated database of scripts?

- | | | |
|--------------------------------|-----------------------------------|--------------------------------|
| ○ Computing center name main | ○ Principal Investigator / author | ○ NCPU |
| ○ Supercomputer name main | ○ associated publication | ○ NGPU |
| ○ Execution date | ○ submit script (sbatch / bsub) | ○ NTHREADS |
| ○ Simulation project name main | ○ NNODES | ○ compiler: pgi/intel/gnu/cray |
| ○ Simulation project name alt | ○ NMPI domains | ○ ... |

- 14/10/2024: script DB KO meeting
- 22/10/2024: script DB live on [ramses-organisation/ramses-job-scripts](https://ramses-organisation.github.io/ramses-job-scripts)