code_saturne 8.1
Quick reference card

User scripts

All code_saturne commands are available under a single script: `code_saturne`. Here below are the most useful commands for a code_saturne user from the study creation to the post-processing. Complete information for each `command` can be obtained by typing:
`code_saturne <command> --help`.

- **info**

Get information on code_saturne. Open the documentation (user, theory).
e.g. `code_saturne info --guide user`

- **config**

Get information on the configuration and installation of code_saturne.
e.g. `code_saturne config`

- **create**

Create a code_saturne template study or case.
e.g. `code_saturne create --study study1`

- **gui**

Launch code_saturne graphical user interface.
e.g. `code_saturne gui --file xmlfile`

- **trackcvg**

Launch code_saturne track convergence tool.
e.g. `code_saturne trackcvg RESU/run_name`

- **compile**

Create a specific solver executable when some user subroutines are present.
e.g. `code_saturne compile --test`

- **studymanager**

Launch studymanager.
e.g. `code_saturne studymanager --file xmlfile --run`

Main user subroutines

Here below are the most useful user subroutines to run a standard simulation. Some of them are useless if the graphical user interface is used.

- **cs_user_parameters.c**

Initialization of the main keywords.

- **cs_user_boundary_conditions.c**

Management of the boundary conditions.

- **cs_user_physical_properties.c**

Management of the variable physical properties.

- **cs_user_initialization.c**

Non-standard initialization of the variables.

- **cs_user_extra_operations.c**

User project files.

- **cs_user_head_losses.c**

Management of the head loss.

- **cs_user_source_terms.c**

User source terms related subroutines.

- **cs_user_postprocess.c**

Post-processing related subroutines.

Practical information

`https://www.code-saturne.org`

Related software:
`https://www.salome-platform.org`