

Development in code_aster

General organization of code_aster



Code_Aster, Salome-Meca course material

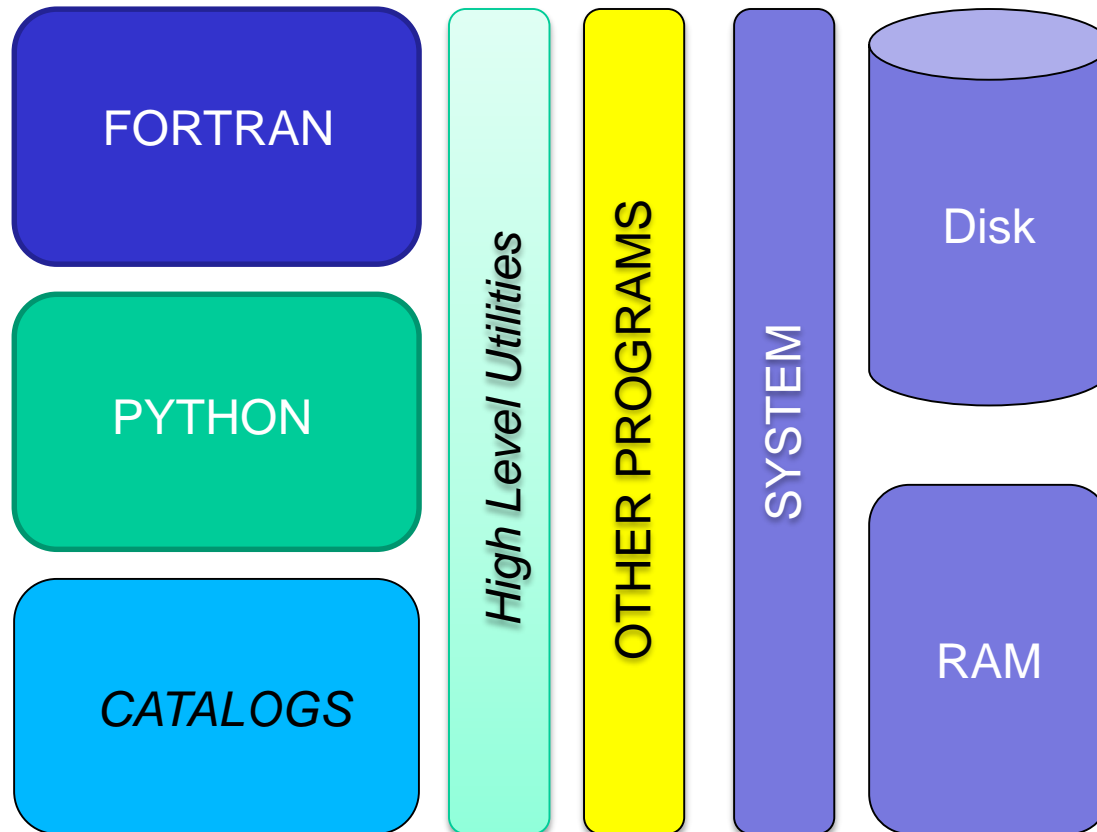
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General organization of Code_Aster

General organization of Code_Aster:

- Main program in FORTRAN
- Several high level interfaces
 - Memory management: JEVEUX
 - Command file management: SUPERVISOR
 - Finite element operation management: CALCUL/TE
 - Comportment law management: NMCOMP/LC + MFRONT + UMAT
- Several catalogs
 - Datastructure organization
 - Command catalogs: syntax of Code_Aster commands
 - Finite element catalogs: description of unknowns and finite element computation
 - Comportement laws catalogs: description of comportment laws

General organization of *Code_Aster*



General organization of Code_Aster

Main directories

Fortran (90) with includes files:

`./bibfor/**/*.F90`
`./bibfor/include/asterfort/*.h`

Python:

`./bibpyt/**/*.py`

Command catalogs:

`./code_aster/Cata/Commands/*.py`

Finite element catalogs:

`./catalo/**/*.py`

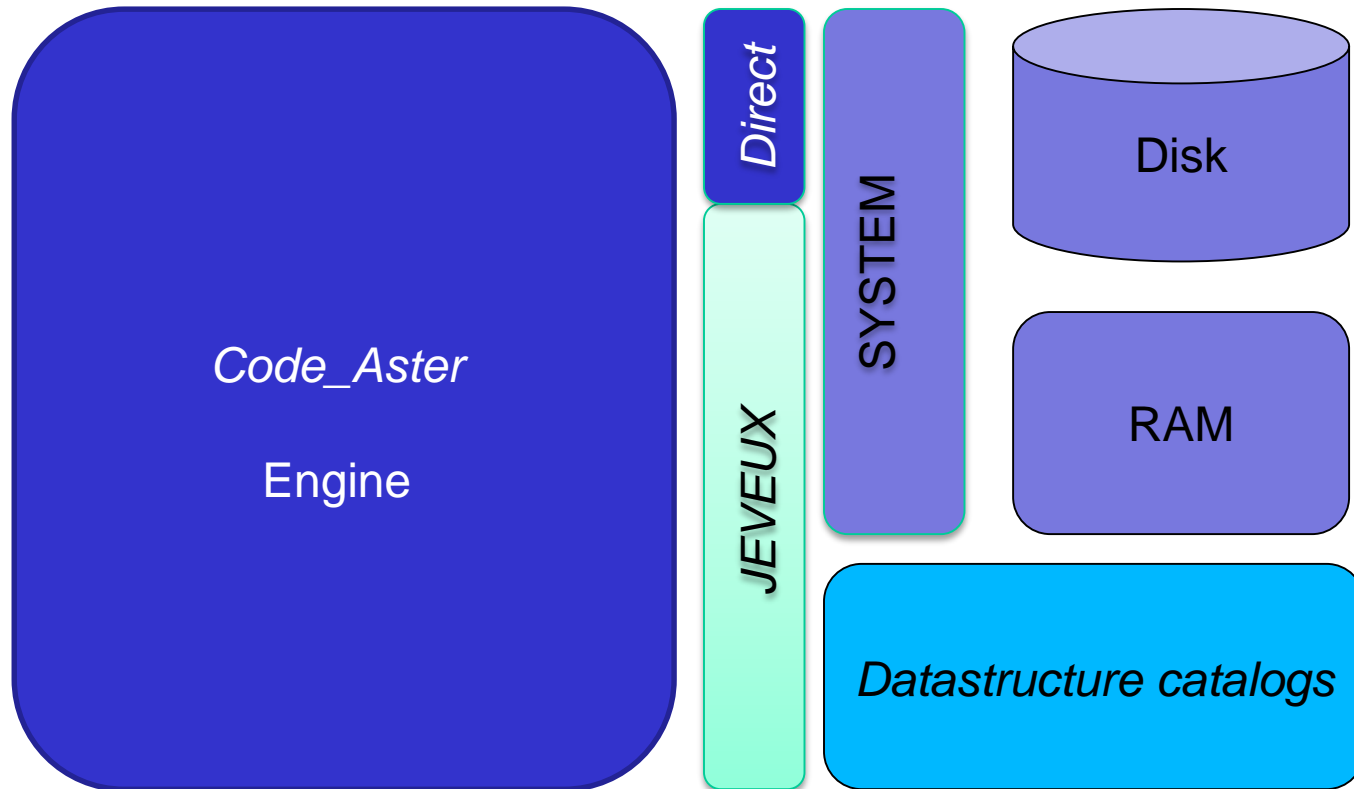
Comportment laws catalogs:

`./bibpyt/Comportement/*.py`

Datastructure catalogs:

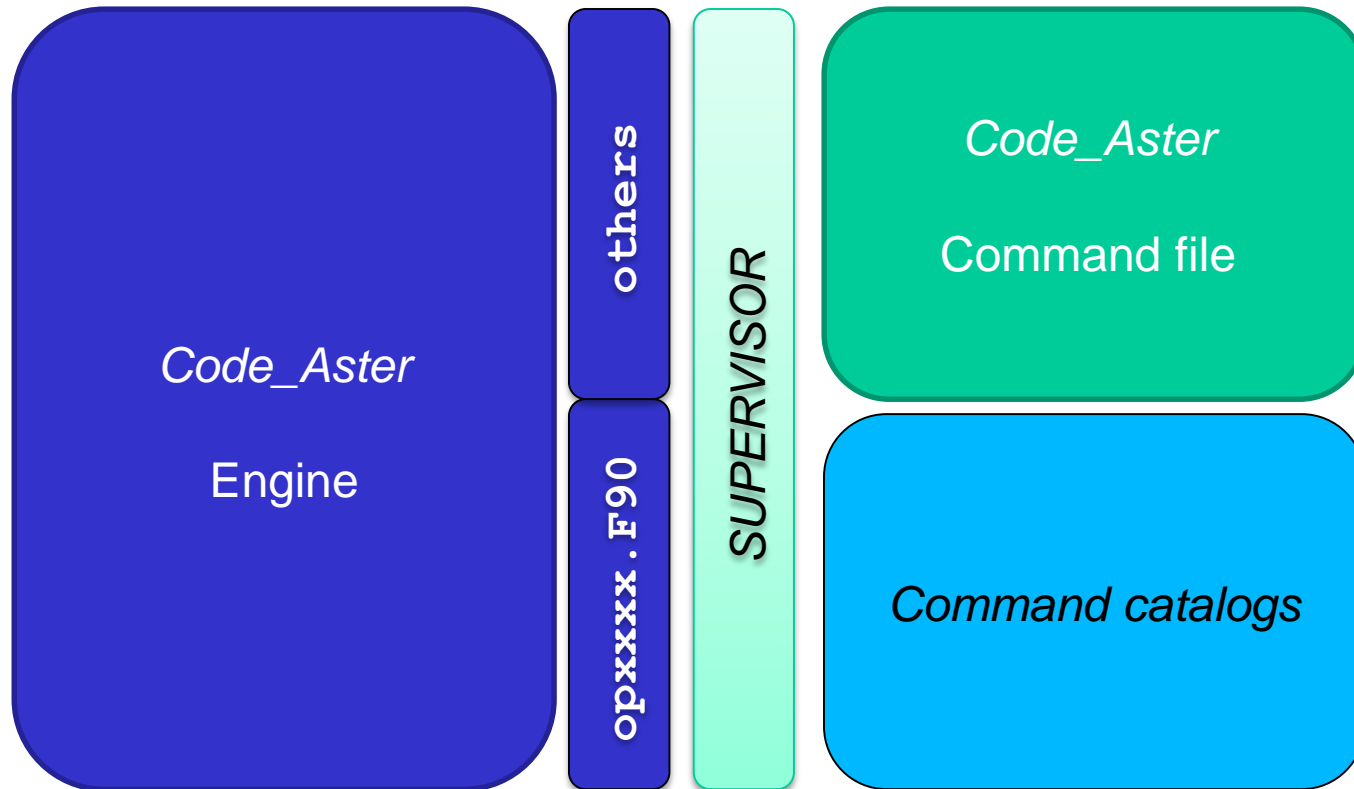
`./bibpyt/SD/*.py`

High level interface: JEVEUX (memory)



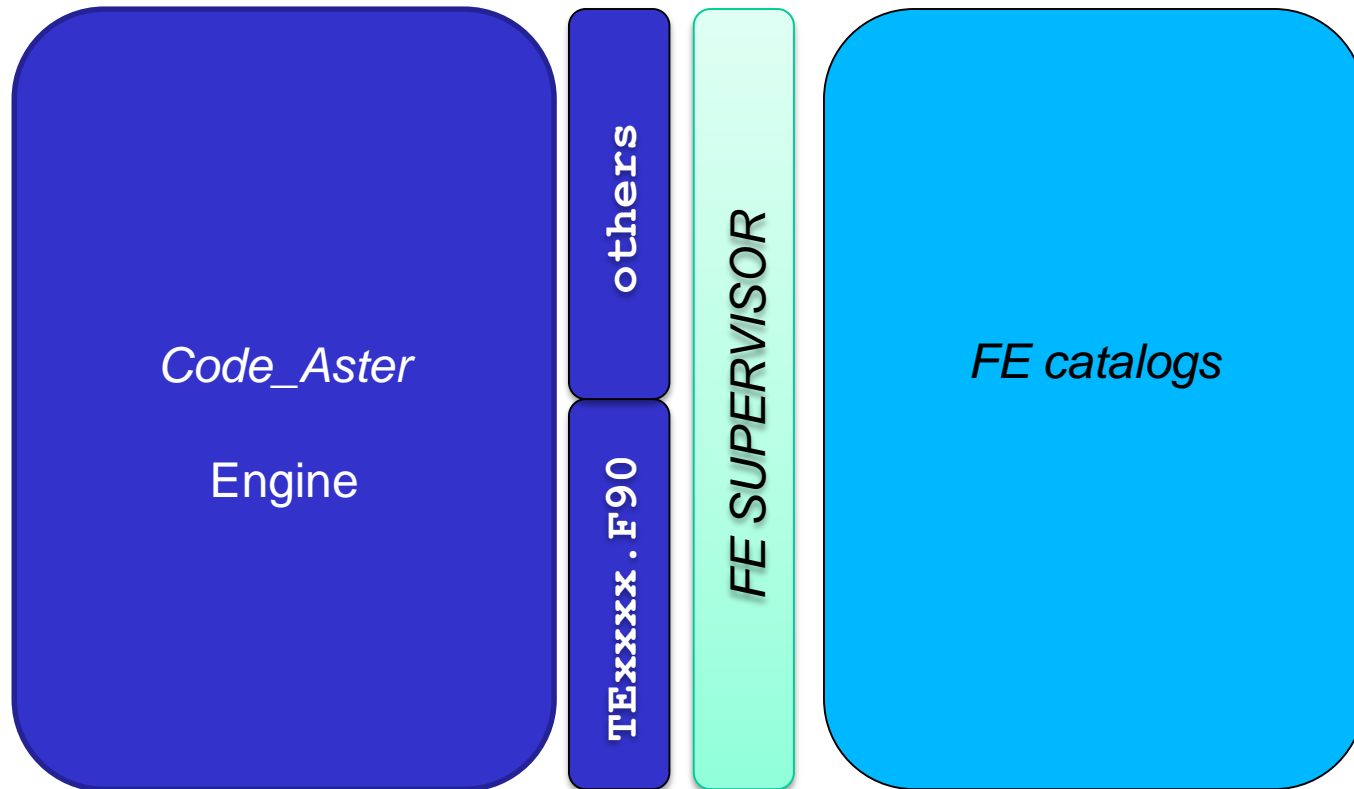
See presentation on memory management

High level interface: SUPERVISOR (.comm file)



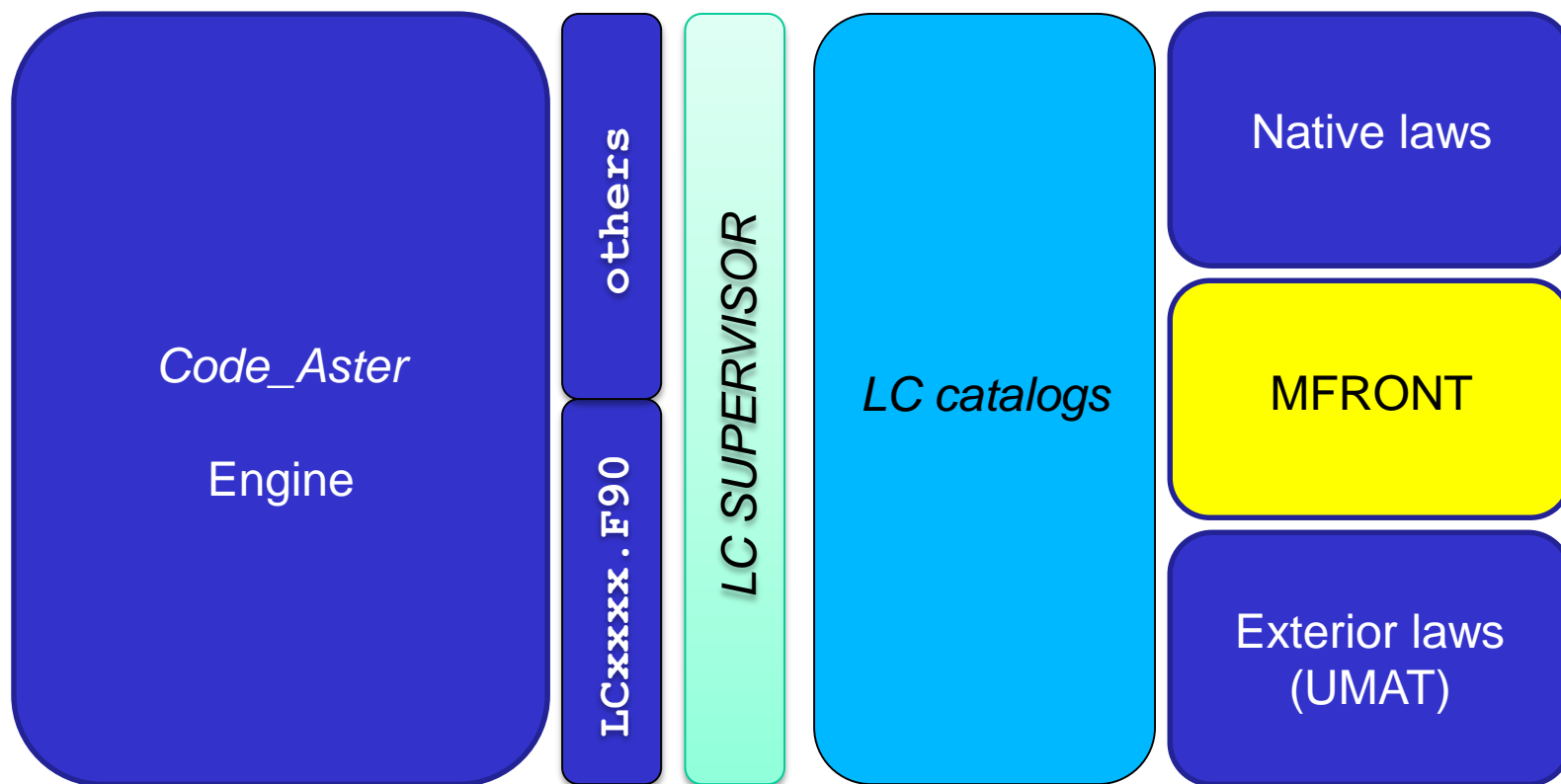
See presentation on commands

High level interface: FE supervisor



See presentation on finite elements options

High level interface: Compartment law supervisor



See presentation on compartment laws

End of presentation

Is something missing or unclear in this document?
Or feeling happy to have read such a clear tutorial?

Please, we welcome any feedbacks about Code_Aster training materials.
Do not hesitate to share with us your comments on the Code_Aster forum
[dedicated thread](#).