

Various syntaxes: files .export

Summary:

This document is a memorandum for various syntaxes.

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1 Files .export

Files .export associated with the CAS-tests of Code_Aster contain the parameters of execution provided usually by the interface atk and various files and data directories used. Only one parameter by line is provided. These various parameters are not positional, the name obeys a convention and makes it possible to distinguish the various values. Here the list of the possible keywords:

The parameters of execution are described in the following form:

P *nom_du_parameter valeur_du_parameter*

- **time_limit**: time in seconds of subjected work, this value passed on the command line.
- **memory_limit**: memory for calculation Aster. It must be indicated out of Mo.
- **testlist**: list of membership of the test. Each test must belong to one of the two lists `sequential` or `parallel`, and one of the two lists `checking` or `validation`. For the tests in the list `validation`, they must moreover mention the project concerned: `code`, `performance`, `seism`, `fracture` (nonexhaustive list).
- **mpi_nbcpu** : full number of processors for parallelism MPI.
- **mpi_nbnoeud** : many nodes for parallelism MPI (where them `nproc_mpi` processors will be distributed).
- **ncpus**: many processors for parallelism OpenMP.
- **max_base**: maximum limit of the size of the bases used during calculation, the associated value must be indicated out of Mo.
- **expected_diag** : diagnosis expected for the CAS-tests voluntarily in error (it is checked that the test stops with of a the same diagnosis gravity).

The data files necessary on the way of the test are described in the form:

F *extension nom_du_fichier D numero_unite_logic*

The data directories necessary on the way of the test are described in the form:

R *extension nom_du_repertoire D 0*

2 Parameters of command line for the achievable Aster

The following parameters can be added on the command line when one carries out Code_Aster. One obtains online help while making:

```
$ Cd $HOME/dev/codeaster/installation/standard
$. ./share/aster/profile.sh
$. ./bin/aster lib/aster/Execution/E_SUPERV.py - H
Use: ./aster lib/aster/Execution/E_SUPERV.py [- H|--help] [options]
```

The ASTERDATADIR environment variable exchanges the dated directory.

Options:

- H, --help	show this help message and exit
--commandes=FILE	Code_Aster command slips by
--memjeveux=MEMJEVEUX	maximum size of the memory taken by the execution (in MW)
--memory=MEMORY	maximum size of the memory taken by the execution (in MB)
--tpmax=TPMAX	limit of the time of the execution (in seconds)
--max_base=MAXBASE	limit of the size of the results database
--dbgjeveux	turn one summons additional checkings in the memory management
--num_job=JOBID	job ID of the current execution
--mode=MODE	execution mode (interactive gold batch)
--interact	ace 'python - I' works, it allows to enter commands after the execution of the command slips by.
--rep_outils=DIR	directory of Code_Aster tools (e.g. \$ASTER_ROOT/outils)
--rep_mat=DIR	directory of materials properties
--rep_dex=DIR	directory of external dated (geometrical dated gold properties...)
--rep_glob=DIR	directory of the results database
--rep_vola=DIR	directory of the temporary database
--suiivi_batch	force to flush the output after each line
--totalview	required to run Code_Aster through the Totalview débogueur
--syntax	only check the syntax of the command spins is gives

3 Parameters of the file .export of ASTK

One lists below the parameters (lines prefixed by one " P ") of a file.export that one can subject via the tool as_run.

To card-index .export is in general produced by the tool ASTK who is documented in [U1.04.00]

actions_astout	To subject a list of tests (astout)
actions_make_cmde	To compile the catalogues of order
actions_make_ele	To compile the catalogues of the finite elements
actions_make_env	To prepare the environment of execution (without launching the execution)
actions_make_etude	To launch a calculation aster
actions_make_exec	To compile the sources overloaded (C, FORTRAN) and to manufacture achievable
class	Name of the group of class batch
consbtc	yes / not . Yes: to build (without soumettre) the file btc.
corefilesize	Size of the files " core " (value or "unlimited")
cpresok	RESNOOK / RESOK : for a astout: recopy of the "out" files for the tests NOOK or OK
debug	nodebug / debug : version "debug" of aster
departure	To differ launching from a calculation (syntax of the Unix order " At ").
detr_rep_trav	yes / No : is necessary it to destroy the repertoire of work of the execution
display	To display it DISPLAY.
distribution	yes : calculation "is distributed" (parametric study)
exectool	Command line which "will encapsulate" the execution aster. For example: valgrind.
facmtps	For a astout: multiplicative factor of time CPU of the tests (compared to what is written in the file will.para test).
follow_output	yes / No : to ask (or not) the interactive follow-up of the execution.
mclient	Name of the machine "customer" (example: clautXXX.der.edf.fr)
mem_aster	Memory aster (percentage of memjob). Example: 30.25
memjob	Memory total of the job (KB). Example: 40000
mode	interactive / batch
mpi_nbcpu	Number of CPU of calculation for an execution in parallel MPI
mpi_nbnoeud	Many "nodes" of calculation for an execution in parallel MPI
nbmaxnook	Maximum number of errors for a astout. Defect: 5
ncpus	Number of CPU of calculation for an execution in OpenMP parallel
node	Name of the node of calculation
nomjob	Name of the "job"
origin	Name of the application having generated the file .export (ASTK 1.8.3)
profastk	Name of the file .astk associated with the file .export
rep_trav	Name of the repertoire of work. Example: /local100/home/user/trav

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waiter	Name of the machine waiter of calculation.
soumbtc	yes / not : tender (or not) of the file.btc
tpsjob	Maximum time of the job (mn)
uclient	User name (side customer)
username	User name
version	Version of aster: NEW10, STA10_mpi,...
xterm	Order xterm