
SETTE tools Documentation

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Shell scripts

1.1 fcm_job.sh

1.1.1 Simple job for NEMO tests

SYNOPSIS

```
$ ./fcm_job.sh INPUT_FILE_CONFIG_NAME NUMBER_PROC TEST_NAME
```

DESCRIPTION

Simple job for SET TESTS for NEMO (SETTE)

this job creates tree of validation in NEMO_VALIDATION_DIR as follows :

NEMO_VALIDATION_DIR/WCONFIG_NAME/WCOMPILER_NAME/TEST_NAME/REVISION_NUMBER(or DATE)

NEMO_VALIDATION_DIR : is choosen in param.cfg

WCONFIG_NAME : set by makenemo at the moment of compilation

WCOMPILER_NAME : set by makenemo at the moment of compilation

TEST_NAME : convention is LONG=10 days run, SHORT=5 days run

REVISION_NUMBER(or DATE) : revision number by svn info, if problems with svn date is taken

EXAMPLES

```
$ ./fcm_job.sh INPUT_FILE_CONFIG_NAME NUMBER_PROC TEST_NAME
```

```
run a job of config GYRE with 1 processor test REPRODUCTINILITY
```

```
$ ./fcm_job.sh input_GYRE.cfg 1 SHORT
```

```
run a job of config ORCA2_LIM_PISCES with 8 processors test RESTARTABILITY
```

```
$ ./fcm_job.sh input_ORCA2_LIM_PISCES.cfg 8 LONG
```

TODO

option debug

EVOLUTIONS

\$Id: fcm_job.sh 2687 2011-03-15 09:27:43Z flavoni \$

- creation

1.2 all_functions.sh

1.2.1 Set of functions used by sette.sh (NEMO tests)

SYNOPSIS

```
$ ./set_namelist INPUT_NAMELIST VARIABLE VALUE
$ ./copy_original INPUT_NAMELIST
```

DESCRIPTION

function superegrep input variable value

function copy_original input namelist_name output namelist

function set_namelist input namelist_name variable value output namelist

EXAMPLES

```
$ ./copy_original namelist_pisces
$ ./set_namelist namelist nn_itend 75
$ ./set_namelist namelist_ice_lim2 cn_icerst_in \"00101231_restart_ice\"
```

TODO

option debug

EVOLUTIONS

\$Id: all_functions.sh 2756 2011-04-29 15:16:07Z flavoni \$

- creation

1.3 sette.sh

1.3.1 Set of tests for NEMO

SYNOPSIS

```
$ ./sette.sh
```

DESCRIPTION

principal script is sette.sh, that calls

makenemo

creates the executable in `${CONFIG_NAME}/BLD/bin/nemo.exe`

(and its link opa in `${CONFIG_NAME}/EXP00`)

param.cfg : sets and loads following directories

Executing directory (EXE_DIR)

Input files storing (INPUT_DIR)

Temporary directory (if needed) (TMPDIR)

Validation directory (NEMO_VALIDATION_DIR)

(note: this file is the same for all configurations to be tested with sette)

all_functions.sh : loads functions used by sette (note: new functions can be added here)

set_namelist : function declared in all_functions that set namelist parameters for tests

fcm_job.sh

runs job and saves output files (grid_files, restarts, ice_evolu, ftrace.out)

and it creates tree of VALIDATION, in which there are restart files, solver.stat and ocean.output

Tree of VALIDATION is:

`NEMO_VALIDATION_DIR/WCONFIG_NAME/WCOMPILER_NAME/TEST_NAME/REVISION_NUMBER(or DATE)`

(note this job needs to have an input_CONFIG.cfg in which can be found input tar file)

(note other files can be saved adding at the end of fcm_job list of saved files)

NOTE: if job is not launched for some problems you have executable ready in `${CONFIG_NAME}/EXP00` directory

NOTE: the changed namelists are leaved in `${CONFIG_NAME}/EXP00` directory

in `${SETTE_DIR}` is created output.sette with the echo of commands run

if sette.sh is stopped in output.sette there is written the last command executed by sette.sh

if you run: `./sette.sh 2>&1 | tee out.sette`

in `${SETTE_DIR}` out.sette is redirected standard error & standard output

EXAMPLES

```
$ ./sette.sh
```

TODO

option debug

EVOLUTIONS

\$Id: sette.sh 2756 2011-04-29 15:16:07Z flavoni \$

- creation

1.4 sette_beginner.sh

1.4.1 Set of tests for NEMO for beginners

SYNOPSIS

```
$ ./sette_beginner.sh
```

DESCRIPTION

First simple example of how to use SETTE: create GYRE_SHORT configuration, compile it with 1 proc, and test it for a SHORT test: 5days

Indices and tables

- *search*