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# **SETTE tools Documentation**

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**Simona Flavoni**

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# Shell scripts

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## 1.1 sette.sh

### 1.1.1 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`)

Forcing files storing (`FORCING_DIR`)

Input files storing (`INPUT_DIR`)

Temporary directory (if needed) (`TMPDIR`)

Output files storing (`OUTPUT_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 added here)

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

`fcm_job.sh`

runs job and saves output files (`ocean.output`, `solver.stat`, `grid_files`, `restart`, `ice_evolu`, `ftrace.out`)

(note this job needs to have an input\_CONFIG.cfg in which found tar input 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

at the end the directory \${CONFIG\_NAME}/EXP00/VALIDATION is created

and output files, solver.stat, ocean.output are put in \${CONFIG\_NAME}/EXP00/VALIDATION directory

and restart files and 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\$

- creation

## 1.2 all\_functions.sh

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

#### SYNOPSIS

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

#### DESCRIPTION

**function superegrep** input variable value

**function set\_namelist** input namelist\_name variable value output namelist

#### EXAMPLES

```
$ ./set_namelist.sh namelist nn_itend 75
$ ./set_namelist.sh namelist_ice_lim2 cn_icerst_in \"00101231_restart_icemod\"
```

## TODO

option debug

## EVOLUTIONS

\$Id\$

- creation

## 1.3 fcm\_job.sh

### 1.3.1 Simple job for NEMO tests

#### SYNOPSIS

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

#### DESCRIPTION

Simple job for SET TESTS for NEMO (SETTE)

#### EXAMPLES

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

run a job of config GYRE with 1 processor

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

run a job of config ORCA2\_LIM\_PISCES with 8 processors

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

## TODO

option debug

## EVOLUTIONS

\$Id\$

- creation





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# Indices and tables

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