

Feature time variables

► **Feature variables** that control the whole experiment or the run length, or that can be used to retrieve time information for use in the configuration files

► Full experiment length control

- initial_date
- final_date

```
fesom_runscript.yaml
namelist_changes:
  namelist.config:
    ...
    restart_log:
      restart_length: "${restart_rate}"
      restart_length_unit: "${restart_unit}"
```

► Note: each model controls their timing in a different way, for FESOM for example with the restart variables

```
fesom_runscript.yaml
general:
  account: <your_account>
  setup_name: fesom
  compute_time: "00:20:00"
  initial_date: '2001-01-01'
  final_date: '2001-03-01'
  base_dir: <your_basedir>
  nyear: 0
  nmonth: 1
  nday: 0
  use_venv: False

fesom:
  version: 2.1
  model_dir: <your_model_dir>
  lresume: 0
  restart_rate: 1
  restart_first: 1
  restart_unit: 'm'
```

Feature time variables

▶ Variables to retrieve information for the configuration files

- start_date – start date of this run
- end_date – end date of this run
- next_date – next run initial date
- parent_date – ending date of the previous run

▶ Use case

Most of the models produce time-stamped output. In order to be able to handle this output files (copy/move) the name needs to be constructed in the **configuration files** using the information from the ESM-Tools calendar. This variables allow for such operations. Same goes for input files and restarts whose names need to be correctly time-stamped to be taken by the models.