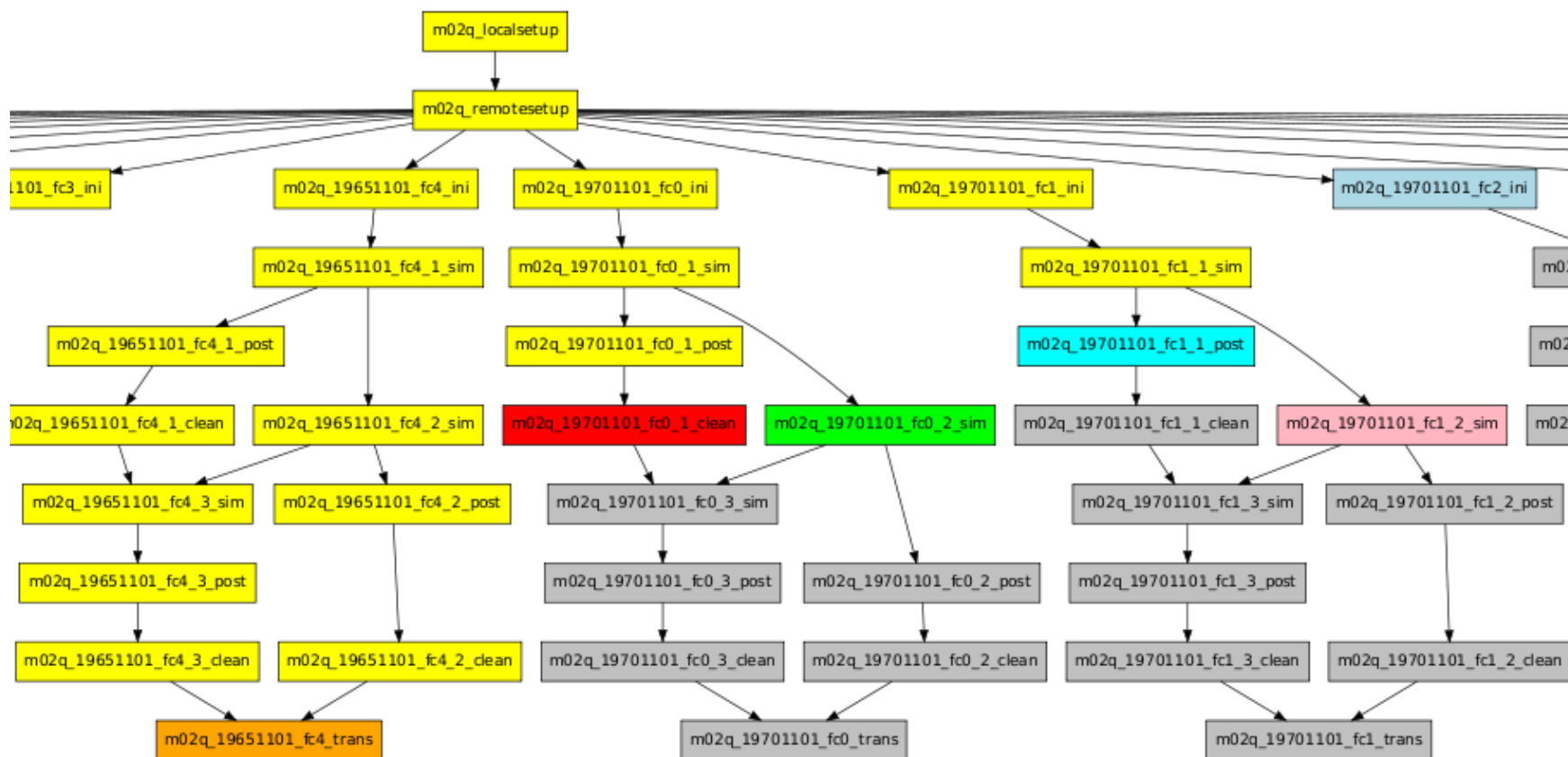


Autosubmit 2.4.1



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Outline

- Check compatibility
- Register commit SHA
- Finalise experiment
- Job statistics
- Change the job status
- Spin up and CNRM branches
- Updated documentation
- Future work
 - Autosubmit 2.5
 - IS-ENES2
 - Autosubmit 3
- Collaboration environment (GitLab)

Check compatibility

- At expid.py stage, an automatic check of compatibility between Autosubmit and given set of templates will be performed.
- VERSION file is needed in root Autosubmit folder and root template folder
- The table of compatibility is a txt file in the local root directory /cfu/autosubmit.
- If the check fails, a compatible set of templates should be cloned before going to next steps.
- The check can be run again by using:

```
python check_compatibility.py -h
usage: check_compatibility.py -e cxxx
```

COMPATIBILITY TABLE

Autosubmit	Template
2.2	1.0
2.3	1.1
2.4	1.2
2.4.0	2.4.0
2.4.1	2.4.0

Register commit SHA

- SHA-1 (Secure Hash Algorithm) is a 40-character checksum hash used in GIT to identify revisions under development.
- Register_exp.py checks the GIT branch and revision of templates, model and ocean diagnostics.
- In case that commit SHA exists, it will register it to the database along with the branch name.
- Autosubmit calls it automatically, or it can be run independently:

```
python register_exp.py -h
```

```
enterprise:8000/autosubmit_v2
```

```
i000      ecearth  Testing new      develop-v3.0.1      ecearth3
          templates based  b960a4ca10f2daf80601d87bcf32bd4ba9933b01
          on run.sh
```

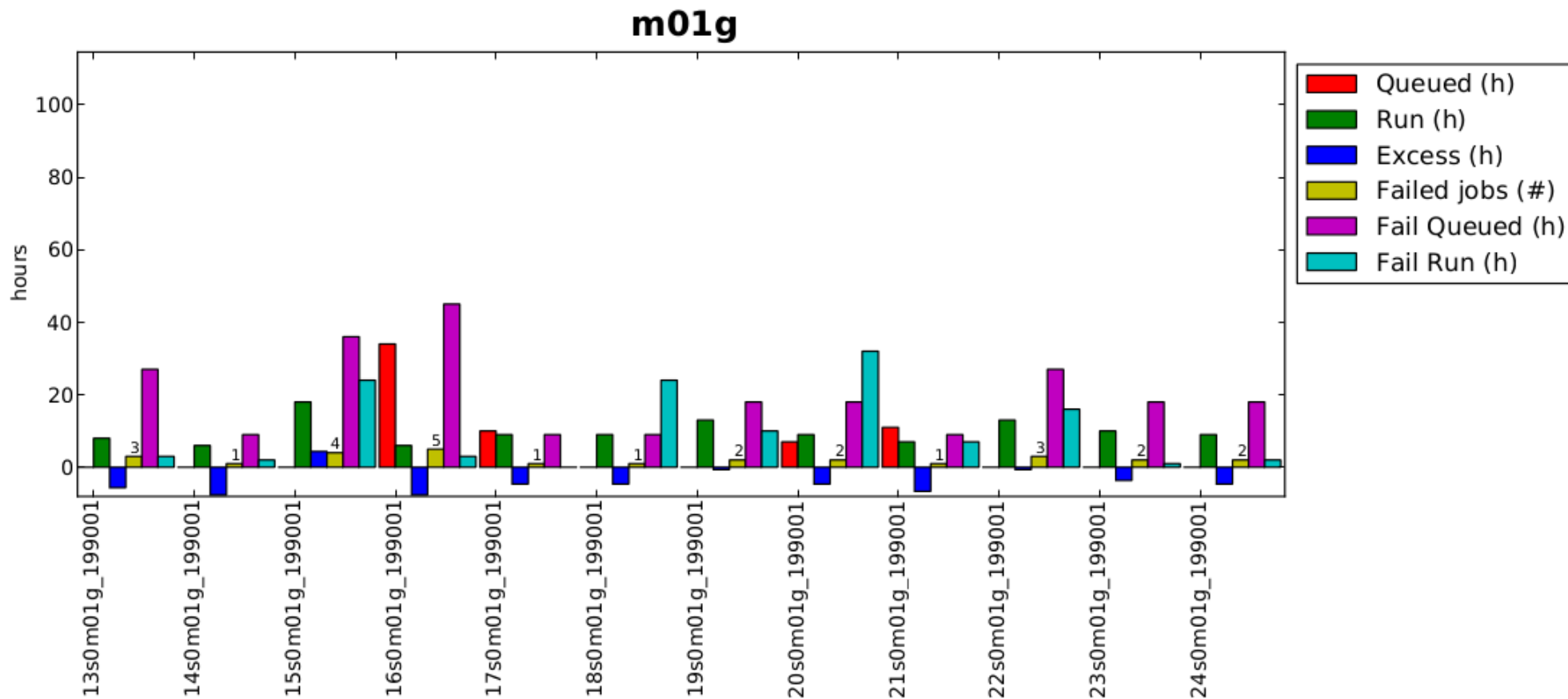
Finalise experiment

- Procedure to save space after finalising an experiment.
- The -p option: clean plot folder. Only the two latest plots will be kept. Older plots will be removed.
- The -g option: clean git folder. (model copy is too big).
 - A bare copy (less space on disk) automatically made.
 - To run again the experiment: ``git clone bare_copy``
- Clean procedure fails if experiment git folder is not synchronized with remote origin:
 - Uncommitted changes or new files
 - Unpushed new commits: *commit and push any changes we may have before finalise !*
- Autosubmit calls it automatically, or it can be run independently:

```
python finalise_exp.py -h
```

Job statistics

```
python statistics.py -h
```



Change the job status

- Procedure to modify multiple job status.

Autosubmit must be stopped !

```
python change_pk1.py -h
```

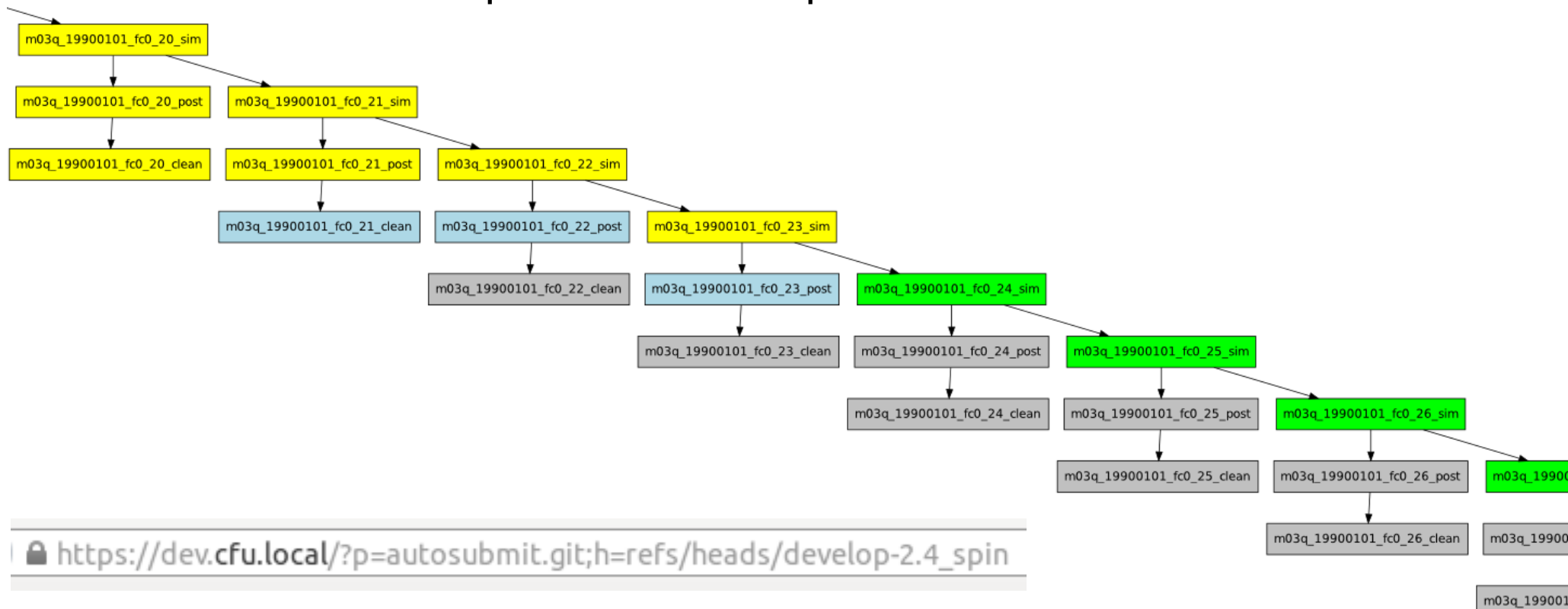
- The -t option: target status of the jobs we want to change to {READY,COMPLETED,WAITING,SUSPENDED,FAILED,UNKNOWN}
- If we supply the key word “Any”, all jobs will be changed to the target status.
- Two alternative options, the -l and -f: filter the jobs we want to change:
 - The -l flag: list of jobnames separated by blank spaces (i.e. "b037_20101101_fc3_21_sim
b037_20111101_fc4_26_sim")

Change the job status (filters)

- The -f flag can be used in three modes: the **chunk** filter, the **status** filter or the **type** filter:
 - -fc: list of individual chunks or ranges of chunks in the following format: "[19601101 [fc0 [1 2 3 4] fc1 [1]] 19651101 [fc0 [16-30]]]"
 - -fs: can be one of the following job status:
{Any,READY,COMPLETED,WAITING,SUSPENDED,FAILED,UNKNOWN}
 - -ft: can be one of the following types of job:
{Any,LOCALSETUP,REMOTESETUP,INITIALISATION,SIMULATION,POSTPROCESSING,CLEANING,LOCALTRANSFER}

Spin up branch

- Job hierarchy changed
- Sequential wrapper of any number of sim jobs implemented on MareNostrum 3
- To be used with template ecearth3-spin



https://dev.cfu.local/?p=autosubmit.git;h=refs/heads/develop-2.4_spin

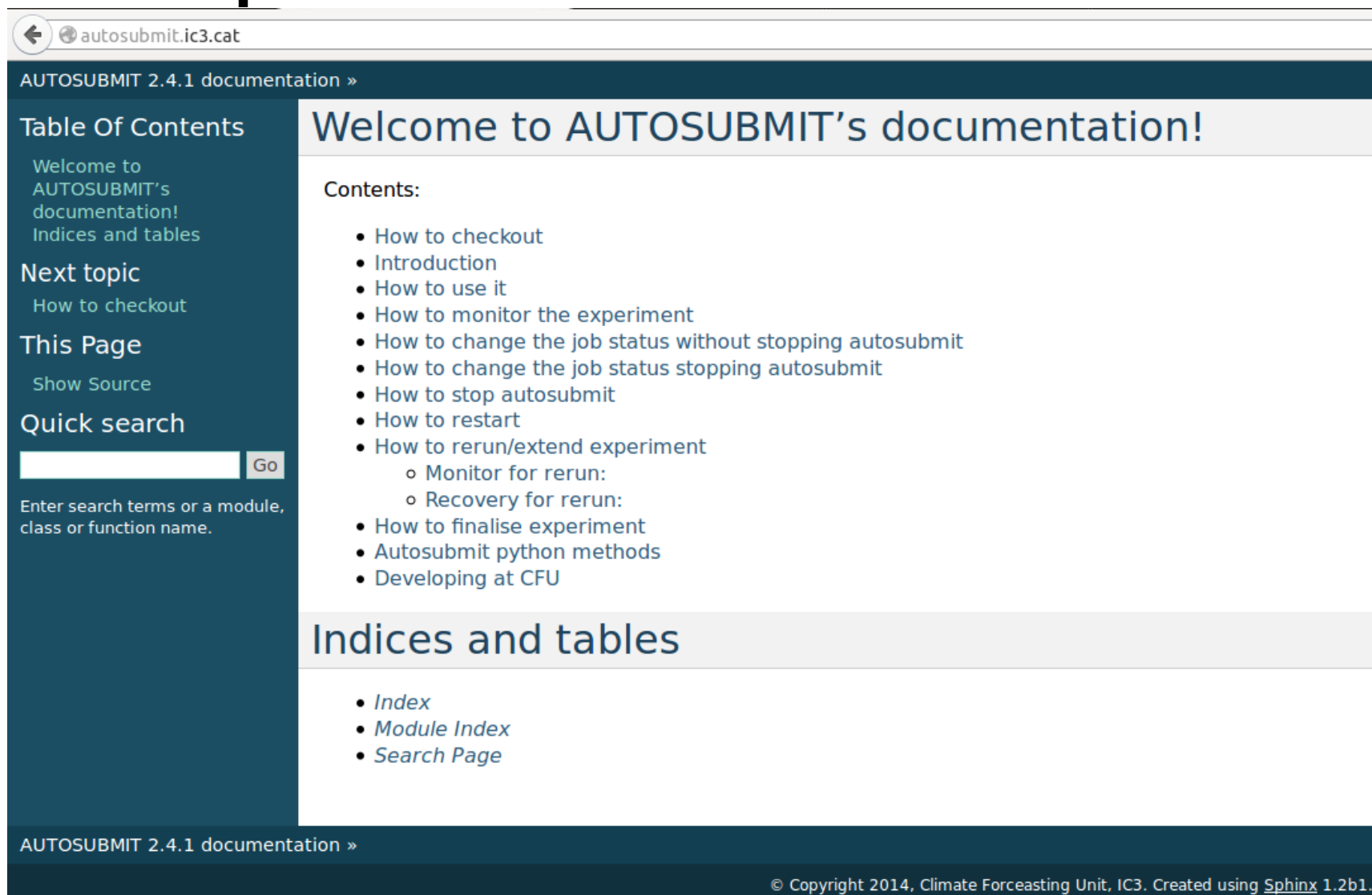
CNRM branch

- Experiment using CNRM-CM6 on ECMWF performed using modified Autosubmit
- More work would be necessary to control the full workflow (from compiling) on any platform
- Thanks to Eric Maisonnave and Lauriane Batté
- Report available under CFU wiki:

http://ic3.cat/wikicfu/index.php/Tools/Autosubmit#A_CNRM-CM6_monitoring

https://dev.cfu.local/?p=autosubmit.git;h=refs/heads/develop-2.4_CNRM

Updated documentation



The screenshot shows a web browser window with the URL `autosubmit.ic3.cat`. The page title is "AUTOSUBMIT 2.4.1 documentation". The main content area features a large heading "Welcome to AUTOSUBMIT's documentation!" and a "Contents:" section with a list of links: "How to checkout", "Introduction", "How to use it", "How to monitor the experiment", "How to change the job status without stopping autosubmit", "How to change the job status stopping autosubmit", "How to stop autosubmit", "How to restart", "How to rerun/extend experiment" (with sub-links for "Monitor for rerun" and "Recovery for rerun"), "How to finalise experiment", "Autosubmit python methods", and "Developing at CFU". Below this is an "Indices and tables" section with links for "Index", "Module Index", and "Search Page". A left sidebar contains navigation links for "Table Of Contents", "Next topic", "This Page", and "Quick search". The footer of the page contains the copyright notice: "© Copyright 2014, Climate Forecasting Unit, IC3. Created using Sphinx 1.2b1."










Future work

- Autosubmit 2.5
 - Structural changes !
 - Better interaction with SVN EC-Earth portal
- IS-ENES2 – Comparison with Cylc
- Autosubmit 3

Collaboration environment (GitLab)

 <https://gitlab.cfu.local>

Coming soon !

-   Nicolau Manubens Gil joined project at Administrator / example a day ago
-   Nicolau Manubens Gil joined project at cfu / test2 a day ago
-   Domingo Manubens-Gil opened issue **#1** at cfu / test2 8 days ago
merge of dev-feature is wrong
-   Domingo Manubens-Gil commented on merge request **#2** at cfu / test2 8 days ago
 this is useless...
-  Administrator pushed to branch **master** at cfu / test2 8 days ago
1334b51ee Merge branch 'dev-feature' into 'master'
5c046f9ce removed *.pyc from gitignore
Compare → [29aa08a8...1334b51e](#)
-  Administrator accepted merge request **#4** at cfu / test2 8 days ago
Dev feature
-  Domingo Manubens-Gil opened merge request **#4** at cfu / test2 8 days ago
Dev feature

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