Inca How To 28 may 2013

News

There is a new tag for libIGCM: libIGCM_v2.0 → on curie add the group number on job's header. It ask the question with the command ins job

```
Hit Enter or give project ID (default is gen2201):
```

ccc quota → give your score on storedir

```
[p24cozic@curie71]$ ccc_quota

Filesystem volume(TB) inodes non_files files<32M files<1G
avg_fsize(MB) score score_detail

store 5.363 6510 17.77% 56.12% 73.17%
1051 6/20 3/6, 0/7, 0/3, 3/4</pre>
```

Inca.def

- Parameter file → PARAM/inca.def
 - climatological → n = use 10m forcing, y= use
 10m calculate
 - freq_write_chem → indicate in seconds output frequency (inca_avgr file)
 - feedb → 1= aerosol effect on climate, 0= no aerosol effect on climate
- Possibility to add new parameters

Aerosols

- Since rev 1759 (svn info to knew with which version you are running)
 - To desactivate aerosol effect on climate
 - aerosol_couple=n (in Imdz.card)
 - flag_aerosol=0 (in Imdz.card)
 - feedb=0 (in inca.card)
 - other aerosols parameters (in Imdz.card)
 - ok_ade (direct effect)
 - ok_aie (indirect effect)
 - read_climoz (read ozone climatology)
 - ok_cdnc (Cloud droplet number concentration)

_

Monitoring your simulation

There is a new tool for this: RunChecker.job

```
Path/to/libIGCM/RunChecker.job [-u user] [-p path] job_name
```

-u user: starts the checker for the simulation of another user

```
-p path: absolute path of the directory containing the config.card for this simulation
```

curie > ../../libIGCM/RunChecker.job -p .

Where do we run ? curie71

Linux curie71 2.6.32-220.23.1.b16.Bull.28.8.x86_64 #1 SMP Thu Jul 5 16:46:35 CEST 2012 x86_64 x86_64 x86_64 GNU/Linux

sys source curie Intel X-64 lib.

Target user = p86maf

CURFEV13 p86maf curie . Submit: >.<

Data: >/ccc/store/cont003/dsm/p86maf/IGCM_OUT/IPSLCM5A/DEVT/pdControl/CURFEV13<

Rebuild: >/ccc/scratch/cont003/dsm/p86maf/REBUILD/IPSLCM5A/CURFEV13<

Post: >/ccc/scratch/cont003/dsm/p86maf/IGCM_OUT/IPSLCM5A/DEVT/pdControl/CURFEV13/Out<

Work: >/ccc/work/cont003/dsm/p86maf/IGCM_OUT/IPSLCM5A/DEVT/pdControl/CURFEV13<

	JobName = CURFEY13	:=======		=================== rı	===== un.card	: 16/02/1	3 17:32:31	:===				
Date Begin - DateEnd		 PeriodState	Current Period	Pending Rebuilds CumulPeriod Nb : from : to								
	2000-01-01 - 2009-12-31	Running	2004-02-01 - 2004-02-28	I 50	8	20030601	20040101	ļ				

i							
١	Rebuild	Pack_Output	Pack_Restart	Pack_Debug	Monitoring	Atlas	
	20011231 : 852 20021231 : 852	20011231 : 23 20021231 : 23	20001231 : 1 20011231 : 1 20021231 : 1 20031231 : 1	20011231 : 1 20021231 : 1			

16/02/13_17:34:50

curie >

Where do we run ? curie71

Linux curie71 2.6.32-220.23.1.bl6.Bull.28.8.x86_64 #1 SMP Thu Jul 5 16:46:35 CEST 2012 x86_64 x86_64 x86_64 GNU/Linux

sys source curie Intel X-64 lib.

Target user = p86maf

Submit: >/ccc/work/cont003/dsm/p86maf/CURIE/CMIP5/R1414/IPSLCM5A_20120731/modipsl/config/IPSLCM5A/v5.rcp85MR1<

Data: >/ccc/store/cont003/dsm/p86maf/IGCM_OUT/IPSLCM5A-MR/PROD/rcp85/v5.rcp85MR1<

Rebuild: >/ccc/scratch/cont003/dsm/p86maf/REBUILD/IPSLCM5A-MR/v5.rcp85MR1<

Post: >/ccc/scratch/cont003/dsm/p86maf/IGCM_OUT/IPSLCM5A-MR/PROD/rcp85/v5.rcp85MR1/Out<

Work: >/ccc/work/cont003/dsm/p86maf/IGCM_OUT/IPSLCM5A-MR/PROD/rcp85/v5.rcp85MR1<

JobName = v5.rcp85MR1						
	 End PeriodStat 	e Current Period 	 CumulPer	riod Nb : fro	:	2
 Rebuild	Last Rebuild Pack_Output Pack_Restart Pack_Debug Monitoring Atlas					
21190630 : 480 21191231 : 480 21200630 : 405 21201231 : 403 21210630 : 480 21211231 : 480		21011231 : 1 21021231 : 1 21031231 : 1 21041231 : 1 21051231 : 1 21061231 : 1	21041231 : 1 21051231 : 1	2110	SE_2101_2110 SE_2121_2130	3
21341231 : 480 21350630 : 480 21351231 : 480 21360630 : 480 21361231 : 480 21370630 : 480 21371231 : 480 21380630 : 480 21381231 : 480 21380630 : 480	21321231 : 32 21331231 : 32 21341231 : 0 21351231 : 1 21361231 : 1 21371231 : 1 21381231 : 1	21321231 : 1 21331231 : 1 21341231 : 1 21351231 : 1 21361231 : 1	21321231 : 1 21331231 : 1 21341231 : 1 21351231 : 1 21361231 : 1			

12/12/12 15:06:33

[labetoul@curie71 libIGCM]\$

Porting on curie

- Verify your environment (fcm / netcdf / ferret)
- Minimum to compile :
 - LMDZ/arch/arch-X64_CURIE.fcm / path
 - INCA/arch/arch-X64_CURIE.fcm / path
- → extract LMDZORINCA_v5 and change only LMDZ/libf/ and INCA/src/ directories
- → be careful
 - for INP/inca_....inp if you change it report difference in INP/inca ...def
 - For configuration scripts if you were using LMDZORINCA and not _v5, report difference in the new config (do not use anymore old config)

 Warning: nudge on old LMDZ rev (1628 and before) doesn't work on curie

My advice: include your modifications in the last version.