

Useful debugging commands

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List tasks in a session

The gsession list command prints the list of tasks in a session, together with their state:

Show log of actions in session

The gession log command prints out the sequence of actions and state changes for all tasks in a session:

```
$ gsession log gasset

Sep 10 22:26:07 GassetApp.76: Submitting to 'localhost'
Sep 10 22:26:07 GassetApp.76: Submitted to 'localhost'
Sep 10 22:26:07 GassetApp.76: Submitted to 'localhost'
Sep 10 22:26:07 GassetApp.77: Final output downloaded to 'gasset-1'
Sep 10 22:26:07 GassetApp.77: TERMINATED
Sep 10 22:26:12 GassetApp.76: RUNNING
Sep 10 22:26:22 GassetApp.74: TERMINATING
Sep 10 22:26:22 GassetApp.74: Final output downloaded to 'gasset-4'
Sep 10 22:26:22 GassetApp.74: TERMINATED
Sep 10 22:26:42 GassetApp.76: TERMINATED
Sep 10 22:26:42 GassetApp.76: TERMINATING
Sep 10 22:26:42 GassetApp.76: Final output downloaded to 'gasset-2'
Sep 10 22:26:42 GassetApp.76: Final output downloaded to 'gasset-2'
Sep 10 22:26:42 GassetApp.76: Final output downloaded to 'gasset-2'
Sep 10 22:26:42 GassetApp.76: TERMINATED
```

Dump contents of a task

The ginfo command allows you to dump the contents of a specific task, or all tasks in a session:

```
$ ginfo -v -s gasset
GassetApp.71
    f...1
    arguments: matlab, -nodesktop, -nodisplay, -nosplash, -r, simAsset 58 0.0471155977822
0.263213407081 0.0109589041096 534 3000 7 ;quit()
   inputs:
        file:///home/ubuntu/gasset/simAsset.m: simAsset.m
   outputs:
        stderr.txt: file, , stderr.txt, None, None, , None, None
        ./results/: file, , , None, None, , None, None
        stdout.txt: file, , stdout.txt, None, None, , None, None
    requested memory: 1GB
    jobname: GassetApp-N7
   execution:
        [...]
        state: TERMINATED
        returncode: 0, 0
       history:
            - Submitting to 'localhost' at Sat Sep 10 22:23:16 2016
            - SUBMITTED at Sat Sep 10 22:23:17 2016
            - Submitted to 'localhost' at Sat Sep 10 22:23:17 2016
            - RUNNING at Sat Sep 10 22:23:22 2016
            - TERMINATING at Sat Sep 10 22:24:03 2016
            - Final output downloaded to 'gasset-7' at Sat Sep 10 22:24:03 2016
            - TERMINATED at Sat Sep 10 22:24:03 2016
```

Abort all tasks in a session

The gsession abort command kills all tasks in a session.

```
$ gsession abort gasset
```

It produces normally no output; use the $\neg v$ option to see a log of actions taken.

Note: it is important that sessions are terminated! Otherwise, GC3Pie will consider part of the resources as still allocated to a task. This is especially evident when running on a single computer: after launching a few tasks, GC3Pie will stop and refuse to run anything.

Manual cleanup of the localhost resource

In case of incomplete cleanup, you will still run into this error:

ERROR: Resource localhost already running maximum allowed number of jobs

As a last resort, you can inspect directory

```
$HOME/.gc3/shellcmd.d:
$ ls $HOME/.gc3/shellcmd.d
15843
```

Each of these files is an allocated execution slot in the localhost resource. Delete the files to free up the slot.

(The file name is the PID of the process, in case you want to check if a command is still running before you make GC3Pie forget about it.)