



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:

```
$ gsession list -r ex2b
```

| JobID | Job name | State | Info |
|----------------|-----------------|------------|---------------------------------------|
| GrayscaleApp.6 | GrayscaleApp-N1 | TERMINATED | TERMINATED at Sat Jul 9 22:13:58 2016 |

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 ex2b
Jul 09 22:13:53 GrayscaleApp.6: Submitting to 'localhost'
Jul 09 22:13:53 GrayscaleApp.6: SUBMITTED
Jul 09 22:13:53 GrayscaleApp.6: Submitted to 'localhost'
Jul 09 22:13:58 GrayscaleApp.6: TERMINATING
Jul 09 22:13:58 GrayscaleApp.6: Final output downloaded to 'grayscale.d'
Jul 09 22:13:58 GrayscaleApp.6: 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 ex2b
```

```
GrayscaleApp.6
```

```
arguments: convert, lena.jpg, -colorspace, gray, gray-lena.jpg
```

```
[...]
```

```
execution:
```

```
[...]
```

```
history:
```

```
- Submitting to 'localhost' at Sun Jul 10 00:27:02 2016
```

```
[...]
```

```
lrms_execdir: /home/gc3pie/docs/programmers/tutorials/workflows/gc3libs.SMGNxrr
```

```
lrms_jobid: 23183
```

```
resource_name: localhost
```

```
[...]
```

```
inputs:
```

```
file:///home/gc3pie/docs/programmers/tutorials/workflows/lena.jpg: lena.jpg
```

```
[...]
```

```
output_dir: grayscale.d
```

```
outputs:
```

```
gray-lena.jpg: file, , gray-lena.jpg, None, None, , None, None
```

```
stderr.txt: file, , stderr.txt, None, None, , None, None
```

```
stdout.txt: file, , stdout.txt, None, None, , None, None
```

```
[...]
```

```
stderr: stderr.txt
```

```
stdin: None
```

```
stdout: stdout.txt
```

```
[...]
```

Dump contents of a task, II

Note that **without the -v** option, `ginfo` limits its output to the `.execution` attribute of a Task/Application object:

```
$ ginfo -s ex2b
GrayscaleApp.6
[...]
history:
  - Submitting to 'localhost' at Sun Jul 10 00:27:02 2016
  [...]
lrms_execdir: /home/gc3pie/docs/programmers/tutorials/workflows/gc3libs.SMGNx
lrms_jobid: 23183
resource_name: localhost
[...]
```

Abort all tasks in a session

The `gsession abort` command kills all tasks in a session.

```
$ gsession abort ex2b
```

It produces normally no output; use the `-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.