GNU Parallel Cheat Sheet

by Clint Priest (cpriest) via cheatography.com/4520/cs/4827/

Overview

GNU parallel is a shell tool for executing jobs in parallel using one or more computers.

It's a great replacement for xargs or find and can do amazing things.

http://www.gnu.org/software/parallel/parallel_tutorial.html

http://www.gnu.org/software/parallel/man.html

This is just a sheet of quick example commands and a concise reference.

Example Commands

Compress all *.html files in parallel

```
par allel gzip --best ::: *.html
```

Convert (via `lame`) all *.wav files to *.mp3

```
par allel lame {} -o {.}.mp3 ::: *.wav
```

Delete pict{0..9999}.jpg files in parallel

```
seq -w 0 9999 | parallel rm pict{}.jp g    # Runs rm 10,000 Times
seq -w 0 9999 | parallel -X rm pict{}.jp g # Runs rm minimal time
s
```

Command Synopsis

parallel [options] [command [arguments]] < list_of_arguments

parallel [options] [command [arguments]] (::: arguments | :::: argfile(s)) ...

parallel --semaphore [options] command

#!/usr/bin/parallel --shebang [options] [command [arguments]]

Input Lines

`{}`	Unaltered input line (foo/bar.jpg)
`{.}`	Remove extension: foo/bar
`{/}`	Basename: bar.jpg
`{//}`	Dirname: foo/
`{/.}`	Basename w/o ext: bar
`{#}`	Sequence Number of Job
`{%}`	Job Slot Number
`{n}`	Argument from input source n or the n'th argument.
`{n.}`	Combo of `{n}` and `{.}`.
`{n/}, {n//}, {n/.}`	Other Combo's Available
`{=perl expres sion= }`	$_ with = {}, $_ is output after eval.



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