

### 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/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

```
parallel gzip --best ::: *.html
```

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

```
parallel lame {} -o {}.mp3 ::: *.wav
```

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

```
seq -w 0 9999 | parallel rm pict{}.jpg # Runs rm
10,000 Times
```

```
seq -w 0 9999 | parallel -X rm pict{}.jpg # Runs rm
minimal times
```

### 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//},

Other Combo's Available

{n/.}

{=perl

\$\_ with = {}, \$\_ is output after eval.

expression=}



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