

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



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Published 26th February, 2019.  
 Last updated 12th May, 2016.  
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