

## NAME

parset - set shell variables in parallel

## SYNOPSIS

**parset** *variablename* [options for GNU Parallel]

## DESCRIPTION

**parset** is a shell function that puts the output from GNU **parallel** into shell variables.

The **parset** function is defined as part of **env\_parallel**.

If *variablename* is a single variable name, this will be treated as the destination variable and made into an array.

If *variablename* contains multiple names separated by ',' or space, the names will be the destination variables.

The last bug in **parset** was discovered 2017-06-29, so the code is ready for being tested widely. Please use it for everyday use and report bugs.

## OPTIONS

Same as GNU **parallel**, but they are put *after* the destination variable.

## SUPPORTED SHELLS

### Bash

#### Examples

Put output into **myarray**:

```
parset myarray seq 3 ::: 4 5 6
echo "${myarray[1]}"
```

Put output into vars **\$seq, \$pwd, \$ls**:

```
parset "seq pwd ls" ::: "seq 10" pwd ls
echo "$ls"
```

Put output into vars **\$seq, \$pwd, \$ls**:

```
into_vars=(seq pwd ls)
parset "${into_vars[*]}" ::: "seq 10" pwd ls
echo "$ls"
```

The commands to run can be an array:

```
cmd=("echo '<joe  \"double  space\"  cartoon>>' "pwd")
parset data ::: "${cmd[@]}"
echo "${data[0]}"
echo "${data[1]}"
```

**parset** can not be part of a pipe. In particular this means it cannot read anything from standard input (stdin) or write to a pipe:

```
seq 10 | parset res echo Does not work
```

but must instead use a tempfile:

```
seq 10 > parallel_input
parset res echo ::: parallel_input
```

```
echo "${res[0]}"  
echo "${res[9]}"
```

or a FIFO:

```
mkfifo input_fifo  
seq 30 > input_fifo &  
parset res echo :::: input_fifo  
echo "${res[0]}"  
echo "${res[29]}"
```

or Bash process substitution:

```
parset res echo :::: <(seq 100)  
echo "${res[0]}"  
echo "${res[99]}"
```

## Installation

Put this in **\$HOME/.bashrc**:

```
. `which env_parallel.bash`
```

E.g. by doing:

```
echo '. `which env_parallel.bash`' >> $HOME/.bashrc
```

## EXIT STATUS

Same as GNU **parallel**.

## AUTHOR

When using GNU **parallel** for a publication please cite:

O. Tange (2011): GNU Parallel - The Command-Line Power Tool, ;login: The USENIX Magazine, February 2011:42-47.

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**DEPENDENCIES**

**parset** uses GNU **parallel**.

**SEE ALSO**

**parallel**(1), **env\_parallel**(1), **bash**(1).