## NAME

parset - set shell variables in parallel

### **SYNOPSIS**

parset variablename [options for GNU Parallel]

env\_parset variablename [options for GNU Parallel]

### DESCRIPTION

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

env\_parset is a shell function that puts the output from env\_parallel into shell variables.

The parset and env\_parset functions are 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 number of names must be at least the number of jobs - otherwise some tmp files will not be cleaned up.

### **OPTIONS**

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

### SUPPORTED SHELLS

#### Bash/Zsh/Ksh/Mksh

## **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 "$1s"
```

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:

parset can read from stdin (standard input) if it is a file:

```
parset res echo < parallel_input_file</pre>
```

but **parset** can not be part of a pipe. In particular this means it cannot read from a pipe or write to a pipe:

```
but must instead use a tempfile:

seq 10 > parallel_input
parset res echo :::: parallel_input
echo "${res[1]}"
echo "${res[9]}"

or a FIFO:

mkfifo input_fifo
seq 30 > input_fifo &
parset res echo :::: input_fifo
echo "${res[1]}"
echo "${res[29]}"

or Bash/Zsh/Ksh process substitution:
parset res echo :::: <(seq 100)
echo "${res[1]}"</pre>
```

### Installation

Put this in the relevant \$HOME/.bashrc or \$HOME/.zshenv or \$HOME/.kshrc:

```
. `which env_parallel.bash`
. `which env_parallel.zsh`
source `which env_parallel.ksh`

E.g. by doing:
  echo '. `which env_parallel.bash`' >> $HOME/.bashrc
  echo '. `which env_parallel.zsh`' >> $HOME/.zshenv
  echo 'source `which env_parallel.ksh`' >> $HOME/.kshrc

or by doing:
  env_parallel --install
```

## ash/dash (FreeBSD's /bin/sh)

## **Examples**

ash does not support arrays.

echo "\${res[99]}"

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

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

parset can read from stdin (standard input) if it is a file:

```
parset res1,res2,res3 echo < parallel_input_file</pre>
```

but **parset** can not be part of a pipe. In particular this means it cannot read from a pipe or write to a pipe:

```
seq 3 | parset res1, res2, res3 echo Does not work
```

but must instead use a tempfile:

```
seq 3 > parallel_input
parset res1,res2,res3 echo :::: parallel_input
echo "$res1"
echo "$res2"
echo "$res3"

or a FIFO:

   mkfifo input_fifo
   seq 3 > input_fifo &
   parset res1,res2,res3 echo :::: input_fifo
   echo "$res1"
   echo "$res2"
echo "$res3"
```

#### Installation

Put the relevant one of these into **\$HOME/.profile**:

```
. `which env_parallel.sh`
. `which env_parallel.ash`
. `which env_parallel.dash`

E.g. by doing:
   echo '. `which env_parallel.ash`' >> $HOME/.bashrc

or by doing:
   env_parallel --install
```

## **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).