NAME

env_parallel - export environment to GNU parallel

SYNOPSIS

env_parallel [options for GNU Parallel]

DESCRIPTION

env_parallel is a shell function that exports the current environment to GNU Parallel.

If the shell function is not loaded, a dummy script will be run instead that explains how to install the function.

env_parallel is alpha quality and not production ready.

Environment space

env_parallel only works if the size of the current environment is smaller than the maximal length of a command and smaller than half of the max if running remotely. E.g. The max size of Bash's command is 128 KB, so **env_parallel** will fail if **set | wc -c** is bigger than 128 KB. Technically the limit is in execve(1) which IPC::open3 uses.

Bash completion functions are well-known for taking up well over 128 KB of environment space and the primary reason for causing **env_parallel** to fail.

OPTIONS

Same as GNU **parallel**.

SUPPORTED SHELLS

Bash

Installation

Put this in $HOME/.bashrc:

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

E.g. by doing:

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

aliases

```
        alias myecho=echo
        env_parallel myecho ::: test
        env_parallel -S server myecho ::: test
```

functions

```
        myfunc() { echo $*; }
        env_parallel myfunc ::: test
        env_parallel -S server myfunc ::: test
```

variables

```
        myvar=test
        env_parallel echo '$myvar' ::: test
        env_parallel -S server echo '$myvar' ::: test
```

arrays

```
        myarray=(foo bar baz)
```

```
env_parallel echo '${myarray[{}]}' ::: 0 1 2
env_parallel -S server echo '${myarray[{}]}' ::: 0 1 2
```

Zsh

Installation

Put this in $HOME/.zshrc:

```
. `which env_parallel.zsh`
```

E.g. by doing:

```
echo '. `which env_parallel.zsh`' >> $HOME/.zshenv
```

aliases

Not supported - Zsh does not support aliases defined in the same parsing as they are used.

functions

```
myfunc() { echo $*; }
env_parallel myfunc ::: test
env_parallel -S server myfunc ::: test
```

variables

```
myvar=test
env_parallel echo '$myvar' ::: test
env_parallel -S server echo '$myvar' ::: test
```

arrays

```
myarray=(foo bar baz)
env_parallel echo '${myarray[{}]}' ::: 1 2 3
env_parallel -S server echo '${myarray[{}]}' ::: 1 2 3
```

fish

Installation

Put this in $HOME/.config/fish/config.fish:

```
source (which env_parallel.fish)
```

E.g. by doing:

```
echo 'source (which env_parallel.fish)' >> $HOME/.config/fish/config.fish
```

aliases

```
alias myecho=echo
env_parallel myecho ::: test
env_parallel -S server myecho ::: test
```

functions

```
function myfunc
  echo $argv
end
env_parallel myfunc ::: test
```

```
env_parallel -S server myfunc ::: test
```

variables

```
set myvar test
env_parallel echo '$myvar' ::: test
env_parallel -S server echo '$myvar' ::: test
```

arrays

```
set myarray foo bar baz
env_parallel echo '$myarray[{}]' ::: 1 2 3
env_parallel -S server echo '$myarray[{}]' ::: 1 2 3
```

ksh

Installation

Put this in $HOME/.kshrc:

```
source `which env_parallel.ksh`
```

E.g. by doing:

```
echo 'source `which env_parallel.ksh`' >> $HOME/.kshrc
```

aliases

```
alias myecho=echo
env_parallel myecho ::: test
env_parallel -S server myecho ::: test
```

functions

```
myfunc() { echo $*; }
env_parallel myfunc ::: test
env_parallel -S server myfunc ::: test
```

variables

```
myvar=test
env_parallel echo '$myvar' ::: test
env_parallel -S server echo '$myvar' ::: test
```

arrays

```
myarray=(foo bar baz)
env_parallel echo '${myarray[{}]}' ::: 0 1 2
env_parallel -S server echo '${myarray[{}]}' ::: 0 1 2
```

pdksh

Installation

Put this in $HOME/.profile:

```
source `which env_parallel.pdksh`
```

E.g. by doing:

```
echo 'source `which env_parallel.pdksh`' >> $HOME/.profile
```

aliases

```
alias myecho=echo
env_parallel myecho ::: test
env_parallel -S server myecho ::: test
```

functions

```
myfunc() { echo $*; }
env_parallel myfunc ::: test
env_parallel -S server myfunc ::: test
```

variables

```
myvar=test
env_parallel echo '$myvar' ::: test
env_parallel -S server echo '$myvar' ::: test
```

arrays

```
myarray=(foo bar baz)
env_parallel echo '${myarray[{}]}' ::: 0 1 2
env_parallel -S server echo '${myarray[{}]}' ::: 0 1 2
```

csh

env_parallel for **csh** breaks **$PARALLEL**, so do not use **$PARALLEL**.

Installation

Put this in $HOME/.cshrc:

```
source `which env_parallel.csh`
```

E.g. by doing:

```
echo 'source `which env_parallel.csh`' >> $HOME/.cshrc
```

aliases

```
alias myecho echo
env_parallel myecho ::: test
env_parallel -S server myecho ::: test
```

functions

Not supported by **csh**.

variables

```
set myvar=test
env_parallel echo "\$myvar" ::: test
env_parallel -S csh@server echo "\$myvar" ::: test
```

arrays with no special chars

```
set myarray=(foo bar baz)
env_parallel echo "\${myarray\[\{\}\]}" ::: 1 2 3
env_parallel -S csh@server echo "\${myarray\[\{\}\]}" ::: 1 2
3
```

tcsh

> **env_parallel** for **tcsh** breaks **$PARALLEL**, so do not use **$PARALLEL**.
>
> Installation
>
> Put this in $HOME/.tcshrc:
>
> ```
> source `which env_parallel.tcsh`
> ```
>
> E.g. by doing:
>
> ```
> echo 'source `which env_parallel.tcsh`' >> $HOME/.tcshrc
> ```
>
> aliases
> ```
>         alias myecho echo
> env_parallel myecho ::: test
> env_parallel -S server myecho ::: test
> ```
>
> functions
> > Not supported by **tcsh**.
>
> variables
> ```
>         set myvar=test
> env_parallel echo "\$myvar" ::: test
> env_parallel -S tcsh@server echo "\$myvar" ::: test
> ```
>
> arrays with no special chars
> ```
>         set myarray=(foo bar baz)
> env_parallel echo "\${myarray\[\{\}\]}" ::: 1 2 3
> env_parallel -S tcsh@server echo "\${myarray\[\{\}\]}" ::: 1 2
> 3
> ```

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.
>
> This helps funding further development; and it won't cost you a cent. If you pay 10000 EUR you should feel free to use GNU Parallel without citing.
>
> Copyright (C) 2007-10-18 Ole Tange, http://ole.tange.dk
>
> Copyright (C) 2008,2009,2010 Ole Tange, http://ole.tange.dk
>
> Copyright (C) 2010,2011,2012,2013,2014,2015 Ole Tange, http://ole.tange.dk and Free Software Foundation, Inc.
>
> Parts of the manual concerning **xargs** compatibility is inspired by the manual of **xargs** from GNU findutils 4.4.2.

LICENSE

> Copyright (C) 2016 Ole Tange and Free Software Foundation, Inc.

Documentation license I

Documentation license II

work.

A copy of the full license is included in the file as cc-by-sa.txt.

DEPENDENCIES

env_parallel uses GNU **parallel**.

SEE ALSO

parallel(1), **bash**(1), **ksh**(1), **zsh**(1), **ksh**(1), **pdksh**(1)