

# Shell

## Links

- SHELLdorado: [Shell Scripts](#)
- en.wikibooks.org: [Bourne Shell Scripting](#)
- fahd.blog: [Shell Scripting - Best Practices](#)
- Eta Labs: [Rich's sh \(POSIX shell\) tricks](#)

## Helpful Aliases

```
alias ..='cd ..'
alias ...='cd ../../'
alias +=='pushd .'
alias -- -='popd'

alias ll='ls -lF'
alias la='ls -AF'
alias l='ls -CF'

alias e='/usr/bin/emacsclient -a /usr/bin/emacs -n'
```

## Optional source another script

```
if [ -f ~/.bashrc-rho ]; then
    . ~/.bashrc-rho
fi
```

## How to "source" an environment for a command

```
$SHELL -c "( source env-of-cmd.sh ; $* )"
```

## How to "daemonize" a script

```
if [ "$1" != "--" ]; then
    echo "restarting as daemon..."
    $0 -- &
    exit 0
fi
```

```
# stuff to do
```

## Kill a child after timeout

```
TIMEOUT=5
echo -n "executing app... "
app &
PID_APP=$!
( sleep $TIMEOUT && kill -9 $PID_APP ) 2>/dev/null &
PID_WATCHER=$!

if wait $PID_APP 2>/dev/null; then
    echo "done."
    kill -9 $PID_WATCHER
    wait $PID_WATCHER 2>/dev/null
else
    echo "error."
fi
```

## Read/Write number binary

```
# write to file (example: 1st byte in file)
echo -ne "$(printf '\\x%x' $number)" | dd of=<file> count=1 bs=1c
2>/dev/null

# read from file
number="$(dd if=<file> count=1 bs=1c 2>/dev/null | od -i | tr -s ' ' |
cut -s -d ' ' -f 2)"
if [ $(echo "$number" | grep -c -E "[0-9]+$") -ne 0 ] ; then
# success
fi
```

## Generate a "C" source from binary file

```
echo "/* HEADER */"
echo
:
:
echo "static int binarray = {"
od -v -t x1 -A n $FILE | sed -e 's/\([0-9a-f][0-9a-f]\)/0x\1,/g'
echo "};"
```

## Compare two directory listings (regarding names and size)

```
ls -lL <path/to/dir1> | sed -e 's/ [ ]*/ /g' | cut -d ' ' -f '5,9-' | sort -k 2 > dir1.lst
ls -lL <path/to/dir2> | sed -e 's/ [ ]*/ /g' | cut -d ' ' -f '5,9-' | sort -k 2 > dir2.lst
diff dir1.lst dir2.lst
```

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