

# GNU Coreutils

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# GNU Coreutils

This manual documents version 8.32 of the GNU core utilities, including the standard programs for text and file manipulation.

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## — The Detailed Node Listing —

### Common Options

- |  |   |
|--|---|
| • <a href="#">Exit status</a>                  | Indicating program success or failure           |
| • <a href="#">Backup options</a>               | Backup options                                  |
| • <a href="#">Block size</a>                   | Block size                                      |
| • <a href="#">Floating point</a>               | Floating point number representation            |
| • <a href="#">Signal specifications</a>        | Specifying signals                              |
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| • <a href="#">Treating / specially</a>         | Treating / specially                            |
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### Output of entire files

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- [nl invocation](#) Number lines and write files
- [od invocation](#) Write files in octal or other formats
- [base32 invocation](#) Transform data into printable data
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### Formatting file contents

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- [fold invocation](#) Wrap input lines to fit in specified width

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- [sum invocation](#) Print checksum and block counts
- [cksum invocation](#) Print CRC checksum and byte counts
- [b2sum invocation](#) Print or check BLAKE2 digests
- [md5sum invocation](#) Print or check MD5 digests
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- [join invocation](#) Join lines on a common field

### Operating on characters

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- [expand invocation](#) Convert tabs to spaces
- [unexpand invocation](#) Convert spaces to tabs

#### **tr: Translate, squeeze, and/or delete characters**

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- [Translating](#) Changing one set of characters to another
- [Squeezing and deleting](#) Removing characters

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- [ls invocation](#) List directory contents
- [dir invocation](#) Briefly list directory contents
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- [dd invocation](#) Convert and copy a file
- [install invocation](#) Copy files and set attributes
- [mv invocation](#) Move (rename) files
- [rm invocation](#) Remove files or directories
- [shred invocation](#) Remove files more securely

### **Special file types**

- [link invocation](#) Make a hard link via the `link` syscall

- |                                       |   |
|---------------------------------------|---|
| • <a href="#">ln invocation</a>       | Make links between files                        |
| • <a href="#">mkdir invocation</a>    | Make directories                                |
| • <a href="#">mkfifo invocation</a>   | Make FIFOs (named pipes)                        |
| • <a href="#">mknod invocation</a>    | Make block or character special files           |
| • <a href="#">readlink invocation</a> | Print value of a symlink or canonical file name |
| • <a href="#">rmdir invocation</a>    | Remove empty directories                        |
| • <a href="#">unlink invocation</a>   | Remove files via unlink syscall                 |

### Changing file attributes

- |                                    |                             |
|------------------------------------|-----------------------------|
| • <a href="#">chown invocation</a> | Change file owner and group |
| • <a href="#">chgrp invocation</a> | Change group ownership      |
| • <a href="#">chmod invocation</a> | Change access permissions   |
| • <a href="#">touch invocation</a> | Change file timestamps      |

### Disk usage

- |                                       |   |
|---------------------------------------|---|
| • <a href="#">df invocation</a>       | Report file system disk space usage             |
| • <a href="#">du invocation</a>       | Estimate file space usage                       |
| • <a href="#">stat invocation</a>     | Report file or file system status               |
| • <a href="#">sync invocation</a>     | Synchronize cached writes to persistent storage |
| • <a href="#">truncate invocation</a> | Shrink or extend the size of a file             |

### Printing text

- [echo invocation](#) Print a line of text
- [printf invocation](#) Format and print data
- [yes invocation](#) Print a string until interrupted

## Conditions

- [false invocation](#) Do nothing, unsuccessfully
- [true invocation](#) Do nothing, successfully
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- [dirname invocation](#) Strip last file name component
- [pathchk invocation](#) Check file name validity and portability
- [mktemp invocation](#) Create temporary file or directory
- [realpath invocation](#) Print resolved file names

## Working context

- [pwd invocation](#) Print working directory
- [stty invocation](#) Print or change terminal characteristics
- [printenv invocation](#) Print all or some environment variables
- [tty invocation](#) Print file name of terminal on standard input

**stty: Print or change terminal characteristics**

- |                               |                      |
|-------------------------------|----------------------|
| • <a href="#">Control</a>     | Control settings     |
| • <a href="#">Input</a>       | Input settings       |
| • <a href="#">Output</a>      | Output settings      |
| • <a href="#">Local</a>       | Local settings       |
| • <a href="#">Combination</a> | Combination settings |
| • <a href="#">Characters</a>  | Special characters   |
| • <a href="#">Special</a>     | Special settings     |

### User information

- |                                      |  |
|--------------------------------------|--|
| • <a href="#">id invocation</a>      | Print user identity                            |
| • <a href="#">logname invocation</a> | Print current login name                       |
| • <a href="#">whoami invocation</a>  | Print effective user ID                        |
| • <a href="#">groups invocation</a>  | Print group names a user is in                 |
| • <a href="#">users invocation</a>   | Print login names of users currently logged in |
| • <a href="#">who invocation</a>     | Print who is currently logged in               |

### System context

- |                                       |                                   |
|---------------------------------------|-----------------------------------|
| • <a href="#">arch invocation</a>     | Print machine hardware name       |
| • <a href="#">date invocation</a>     | Print or set system date and time |
| • <a href="#">nproc invocation</a>    | Print the number of processors    |
| • <a href="#">uname invocation</a>    | Print system information          |
| • <a href="#">hostname invocation</a> | Print or set system name          |
| • <a href="#">hostid invocation</a>   | Print numeric host identifier     |
| • <a href="#">uptime invocation</a>   | Print system uptime and load      |

**date: Print or set system date and time**

- [Time conversion specifiers](#)                      %[HIklMNpPrRsSTXzZ]
- [Date conversion specifiers](#)                      %[aAbBcCdDeFgGhjmuUVwWxyY]
- [Literal conversion specifiers](#)                      %[%nt]
- [Padding and other flags](#)                      Pad with zeros, spaces, etc.
- [Setting the time](#)                      Changing the system clock
- [Options for date](#)                      Instead of the current time
- [Date input formats](#)                      Specifying date strings
- [Examples of date](#)                      Examples

**SELinux context**

- [chcon invocation](#)                      Change SELinux context of file
- [runcon invocation](#)                      Run a command in specified SELinux context

**Modified command invocation**

- [chroot invocation](#)                      Run a command with a different root directory
- [env invocation](#)                      Run a command in a modified environment

- [nice invocation](#) Run a command with modified niceness
- [nohup invocation](#) Run a command immune to hangups
- [stdbuf invocation](#) Run a command with modified I/O buffering
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| • <a href="#">The sort command</a>           | The <code>sort</code> command |
| • <a href="#">The uniq command</a>           | The <code>uniq</code> command |
| • <a href="#">Putting the tools together</a> | Putting the tools together    |

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