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Man -h

```
$ man -h
Usage: man [OPTION...] [SECTION] PAGE...
  -C, --config-file=FILE
                                use this user configuration file
      --debug emit debugging messages
--default reset all options to their default values
--warnings[=WARNINGS] enable warnings from groff
  -d, --debug
-D, --default
 Main modes of operation:
                                equivalent to whatis
  -f, --whatis
  -k, --apropos
                                equivalent to apropos
search for text in all pages
  -K, --global-apropos
-l, --local-file
                                interpret PAGE argument(s) as local filename(s)
  -w, --where, --path, --location
                                print physical location of man page(s)
  -W, --where-cat, --location-cat
                                print physical location of cat file(s)
  -c, --catman
                                used by catman to reformat out of date cat pages
  -R, --recode=ENCODING
                                output source page encoded in ENCODING
 Finding manual pages:
 -L, --locale=LOCALE
-m, --systems=SYSTEM
                                define the locale for this particular man search
                                use manual pages from other systems
set search path for manual pages to PATH
  -M, --manpath=PATH
  -S, -s, --sections=LIST
                                use colon separated section list
  -e, --extension=EXTENSION limit search to extension type EXTENSION
  -i, --ignore-case
                                look for pages case-insensitively (default)
  -I, --match-case
                                look for pages case-sensitively
                                show all pages matching regex show all pages matching wildcard
      --regex
      --wildcard
                                make --regex and --wildcard match page names only,
      --names-only
                                not descriptions
 -a, --all
-u, --update
                                find all matching manual pages
                                force a cache consistency check
                                don't try subpages, e.g. 'man foo bar' => 'man
      --no-subpages
                                foo-bar
 Controlling formatted output:
 -P, --pager=PAGER
                               use program PAGER to display output
  -r, --prompt=STRING
                                provide the 'less' pager with a prompt
                               display ASCII translation of certain latin1 chars use selected output encoding
  -7, --ascii
  -E, --encoding=ENCODING
      --no-hyphenation, --nh turn off hyphenation
      --no-justification,
                                                              --nj turn off justifica
 -p, --preprocessor=STRING STRING indicates which preprocessors to run:
                                e - [n]eqn, p - pic, t - tbl,
g - grap, r - refer, v - vgrind
 -t, --troff use groff to format pages
-T, --troff-device[=DEVICE] use groff with selected device
  -H, --html[=BROWSER]
                                use lynx or BROWSER to display HTML output
  -X, --gxditview[=RESOLUTION] use groff and display through gxditview
                                (X11):
                                -X = -TX75, -X100 = -TX100, -X100-12 = -TX100-12
                                use groff and force it to produce ditroff
  -Z, --ditroff
  -?, --help
                                give this help list
                                give a short usage message
 andatory or optional arguments to long options are also mandatory or optional
```



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> which

```
WHICH(1)
                              General Commands Manual
                                                                           WHICH(1)
NAME
       which - shows the full path of (shell) commands.
SYNOPSIS
       which [options] [--] programname [...]
DESCRIPTION
       Which takes one or more arguments. For each of its arguments it prints
       to stdout the full path of the executables that would have been exe-
       cuted when this argument had been entered at the shell prompt. It does
       this by searching for an executable or script in the directories listed
       in the environment variable PATH using the same algorithm as bash(1).
       This man page is generated from the file which.texinfo.
OPTIONS
       --all, -a
           Print all matching executables in PATH, not just the first.
       --read-alias, -i
           Read aliases from stdin, reporting matching ones on stdout. This is
           useful in combination with using an alias for which itself. For ex-
           ample
           alias which='alias | which -i'.
       --skip-alias
           Ignore option `--read-alias', if any. This is useful to explicity
            search for normal binaries, while using the `--read-alias' option
           in an alias or function for which.
       --read-functions
           Read shell function definitions from stdin, reporting matching ones
           on stdout. This is useful in combination with using a shell func-
           tion for which itself. For example:
which() { declare -f | which --read-functions $@ }
export -f which
       --skip-functions
           Ignore option `--read-functions´, if any. This is useful to explicity search for normal binaries, while using the `--read-functions´
           option in an alias or function for which.
       --skip-dot
           Skip directories in PATH that start with a dot.
       --skip-tilde
            Skip directories in PATH that start with a tilde and executables
           which reside in the HOME directory.
       --show-dot
           If a directory in PATH starts with a dot and a matching executable
           was found for that path, then print "./programname" rather than the
           full path.
       --show-tilde
           Output a tilde when a directory matches the HOME directory. This
           option is ignored when which is invoked as root.
       --tty-only
Manual page which(1) line 1 (press h for help or q to quit)
```



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> Fg

```
ASH_BUILTINS(1)

General Commands Manual

BASH_BUILTINS(1)

NAME

bash, :, ., [, alias, bg, bind, break, builtin, caller, cd, command, compgen, complete, compopt, continue, declare, dirs, disown, echo, enable, eval, exec, exit, export, false, fc, fg, getopts, hash, help, history, jobs, kill, let, local, logout, mapfile, popd, printf, pushd, pwd, read, readonly, return, set, shift, shopt, source, suspend, test, times, trap, true, type, typeset, ulimit, umask, unalias, unset, wait - bash built-in commands, see bash(1)

BASH BUILTIN COMMANDS

SEE ALSO

bash(1), sh(1)

SNU Bash-4.2

Manual page fg(1) line 1/13 (END) (press h for help or q to quit)
```

≻ Bg

```
BASH_BUILTINS(1)

RAME

bash, :, ., [, alias, bg, bind, break, builtin, caller, cd, command, compgen, complete, compopt, continue, declare, dirs, disown, echo, enable, eval, exec, exit, export, false, fc, fg, getopts, hash, help, history, jobs, kill, let, local, logout, mapfile, popd, printf, pushd, pwd, read, readonly, return, set, shift, shopt, source, suspend, test, times, trap, true, type, typeset, ulimit, umask, unalias, unset, wait - bash built-in commands, see bash(1)

BASH_BUILTIN COMMANDS

SEE ALSO

bash(1), sh(1)

GNU Bash-4.2

2004 Apr 20

BASH_BUILTINS(1)

Manual page bg(1) line 1/13 (END) (press h for help or q to quit)
```

> ps

```
$ man ps
No manual entry for ps
```

► Ln

```
UNCLE

In - make links between files

SYMOPSIS

IN (007100) ... 1-31 TARGET LINK-MAWE
In (007100) ... 1-3666T
In (007100) ...
```



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> Stat

```
User Commands
NAME
        stat - display file or file system status
SYNOPSIS
        stat [OPTION]... FILE...
DESCRIPTION
Display file or file system status.
       Mandatory arguments to long options are mandatory for short options too.
       -L, --dereference
follow links
       -f, --file-system
display file system status instead of file status
       \mbox{--cached=}\underline{\mbox{MODE}} specify how to use cached attributes; useful on remote file systems. See MODE below
       -c --format=FORMAT
use the specified FORMAT instead of the default; output a newline after each use of FORMAT
        --printf=FORMAT
like --format, but interpret backslash escapes, and do not output a mandatory trailing newline; if you want a newline, include
\n in FORMAT
       -t, --terse print the information in terse form
        --append-exe
                append .exe if cygwin magic was needed
       --help display this help and exit
       --version output version information and exit
       The MODE argument of --cached can be: always, never, or default. 'always' will use cached attributes if available, while 'never' will try to synchronize with the latest attributes, and 'default' will leave it up to the underlying file system.
       The valid format sequences for files (without --file-system):
               permission bits in octal (note '#' and '0' printf flags)
               permission bits and file type in human readable form
               number of blocks allocated (see %B)
               the size in bytes of each block reported by %b
       %C
               SELinux security context string
               device number in decimal (st_dev)
       %D
               device number in hex (st_dev)
       %Hd major device number in decimal
Manual page stat(1) line 1 (press h for help or q to quit)
```



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> Ping

\$ ping	
[-] []] [-]	t] [-a] [-n <число>] [-l <paзмep>] [-f] [-i <ttl>] v <tos>] [-r <число>] [-s <число>] -j <список_узлов>] [-k <список_узлов>]] w <время_ожидания>] [-R] [-S <aдрес_источника>] c секция] [-р] [-4] [-6] конечный_узел</aдрес_источника></tos></ttl></paзмep>
Параметры:	
-t	Проверяет связь с указанным узлом до прекращения. Для отображения статистики и продолжения проверки нажмите клавиши CTRL+BREAK; для прекращения нажмите CTRL+C.
-a	Разрешает адреса в имена узлов.
-n <число>	Число отправляемых запросов проверки связи.
-1 <размер>	Размер буфера отправки.
-f	Устанавливает флаг, запрещающий фрагментацию, в пакете (только IPv4).
-i <ttl></ttl>	Срок жизни пакетов.
-v <t0s></t0s>	Тип службы (только IPv4; этот параметр
	использовать не рекомендуется, и он не влияет на поле TOS в заголовке IP).
-r <число>	Записывает маршрут для указанного числа прыжков (только IPv4).
-s <число>	Задает метку времени для указанного числа прыжков (только IPv4).
-ј <список_узлов>	Задает свободный выбор маршрута по списку узлов (только IPv4).
-k <список_узлов>	Задает жесткий выбор маршрута по списку узлов (только IPv4).
-w <время_ожидания> -R	Задает время ожидания каждого ответа (в миллисекундах). Использует заголовок маршрута для проверки и обратного маршрута (только IPv6). В соответствии с RFC 5095, использование этого заголовка маршрута не рекомендуется В некоторых системах запросы проверки связи могут быть сброшены, если используется этот заголовок.
-5 <адрес_источника>	Задает адрес источника.
-с секция	Идентификатор секции маршрутизации.
-р	Проверяет связь с сетевым адресом поставщика виртуализации Hyper-V.
-4	Задает принудительное использование протокола IPv4.
-6	Задает принудительное использование протокола IPv6.



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> Chmod

User Commands

NAME

chmod - change file mode bits

SYNOPSIS

chmod [OPTION]... MODE[.MODE]... FILE...
chmod [OPTION]... OCTAL-MODE FILE...
chmod [OPTION]... --reference=RFILE FILE...

DESCRIPTION

Trion This manual page documents the GNU version of **chmod. chmod** changes the file mode bits of each given file according to <u>mode</u>, which can be either a symbolic representation of changes to make, or an octal number representing the bit pattern for the new mode bits.

The format of a symbolic mode is [ugoa...][[-+=][perms...]...], where perms is either zero or more letters from the set rwxXst, or a single letter from the set ugo. Multiple symbolic modes can be given, separated by commas.

A combination of the letters ugoa controls which users' access to the file will be changed: the user who owns it (u), other users in the file's group (g), other users not in the file's group (o), or all users (a). If none of these are given, the effect is as if (a) were given, but bits that are set in the umask are not affected.

The operator + causes the selected file mode bits to be added to the existing file mode bits of each file; - causes them to be removed; and = causes them to be added and causes unmentioned bits to be removed except that a directory's unmentioned set user and group ID bits are not affected.

The letters rwxXst select file mode bits for the affected users: read (r), write (w), execute (or search for directories) (x), execute/search only if the file is a directory or already has execute permission for some user (X), set user or group ID on execution (s), restricted deletion flag or sticky bit (t). Instead of one or more of these letters, you can specify exactly one of the letters ugo: the permissions granted to the user who owns the file (u), the permissions granted to other users who are members of the file's group (g), and the permissions granted to users that are in neither of the two preceding categories (o).

A numeric mode is from one to four octal digits (0-7), derived by adding up the bits with values 4, 2, and 1. Omitted digits are assumed to be leading zeros. The first digit selects the set user ID (4) and set group ID (2) and restricted deletion or sticky (1) attributes. The second digit selects permissions for the user who owns the file: read (4), write (2), and execute (1); the third selects permissions for other users in the file's group, with the same values; and the fourth for other users not in the file's group, with the

chmod never changes the permissions of symbolic links; the chmod system call cannot change their permissions. This is not a problem since the permissions of symbolic links are never used. However, for each symbolic link listed on the command line, chmod changes the permissions of the pointed-to file. In contrast, chmod ignores symbolic links encountered during recursive directory traversals.

SETUID AND SETGID BITS

AND SEIGHT BITS.

chmod clears the set-group-ID bit of a regular file if the file's group ID does not match the user's effective group ID or one of the user's supplementary group IDs, unless the user has appropriate privileges. Additional restrictions may cause the set-user-ID and set-group-ID bits of MODE or RFILE to be ignored. This behavior depends on the policy and functionality of the underlying chmod system call. When in doubt, check the underlying system behavior.

For directories **chmod** preserves set-user-ID and set-group-ID bits unless you explicitly specify otherwise. You can set or clear the bits with symbolic modes like u+s and g-s. To clear these bits for directories with a numeric mode requires an additional leading zero like 00755, leading minus like -6000, or leading equals like =755.

RESTRICTED DELETION FLAG OR STICKY BIT

The restricted deletion flag or sticky bit is a single bit, whose interpretation depends on the file type. For directories, it prevents unprivileged users from removing or renaming a file in the directory unless they own the file or the directory; this is called the restricted deletion flag for the directory, and is commonly found on world-writable directories like /tmp. For regular files on some older systems, the bit saves the program's text image on the swap device so it will load more quickly when run; this is called the sticky bit.

OPTIONS

Change the mode of each FILE to MODE. With --reference, change the mode of each FILE to that of RFILE.

Manual page chmod(1) line 1 (press h for help or q to quit)



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> Chown

```
User Commands
            chown - change file owner and group
SYNOPSIS
           chown [OPTION]... [OWNER][:[GROUP]] FILE...
chown [OPTION]... --reference=RFILE FILE...
 DESCRIPTION
           Prion This manual page documents the GNU version of chown. chown changes the user and/or group ownership of each given file. If only an owner (a user name or numeric user ID) is given, that user is made the owner of each given file, and the files' group is not changed. If the owner is followed by a colon and a group name (or numeric group ID), with no spaces between them, the group ownership of the files is changed as well. If a colon but no group name follows the user name, that user is made the owner of the files and the group of the files is changed to that user's login group. If the colon and group are given, but the owner is omitted, only the group of the files is changed; in this case, chown performs the same function as chgrp. If only a colon is given, or if the entire operand is empty, neither the owner nor the group is changed.
OPTIONS

Change the owner and/or group of each FILE to OWNER and/or GROUP. With --reference, change the owner and group of each FILE to those of RFILE.
           -c, --changes
like verbose but report only when a change is made
           -f, --silent, --quiet
suppress most error messages
           -v, --verbose
output a diagnostic for every file processed
           --dereference
affect the referent of each symbolic link (this is the default), rather than the symbolic link itself
           -h, --no-dereference
affect symbolic links instead of any referenced file (useful only on systems that can change the ownership of a symlink)
            --from=CURRENT_OWNER:CURRENT_GROUP
                        change the owner and/or group of each file only if its current owner and/or group match those specified here. Either may be omitted, in which case a match is not required for the omitted attribute
            --no-preserve-root
   do not treat '/' specially (the default)
            --preserve-root
fail to operate recursively on '/'
           --reference=<u>RFILE</u>
use <u>RFILE</u>'s owner and group rather than specifying OWNER:GROUP values
           -R, --recursive operate on files and directories recursively
           The following options modify how a hierarchy is traversed when the -R option is also specified. If more than one is specified, only the final one takes effect.
                       if a command line argument is a symbolic link to a directory, traverse it
                      traverse every symbolic link to a directory encountered
-P do not traverse any symbolic links (default)
Manual page chown(1) line 1 (press h for help or q to quit)
```



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> Dd

```
DD(1
                                                                             User Commands
NAME
        dd - convert and copy a file
SYNOPSIS
        dd [OPERAND]...
dd OPTION
DESCRIPTION

Copy a file, converting and formatting according to the operands.
       bs=BYTES read and write up to BYTES bytes at a time (default: 512); overrides ibs and obs
        cbs=BYTES convert BYTES bytes at a time
        conv=CONVS
                convert the file as per the comma separated symbol list
        count=N
copy only N input blocks
        ibs=BYTES
    read up to BYTES bytes at a time (default: 512)
        if=FILE
                 read from FILE instead of stdin
        iflag=FLAGS read as per the comma separated symbol list
        obs=BYTES
write BYTES bytes at a time (default: 512)
        of=FILE
                write to FILE instead of stdout
        oflag=FLAGS
write as per the comma separated symbol list
        seek=N skip N obs-sized blocks at start of output
        skip=N skip N ibs-sized blocks at start of input
                The LEVEL of information to print to stderr; 'none' suppresses everything but error messages, 'noxfer' suppresses the final transfer statistics, 'progress' shows periodic transfer statistics
        N and BYTES may be followed by the following multiplicative suffixes: c=1, w=2, b=512, kB=1000, K=1024, MB=1000*1000, M=1024*1024, xM=M, GB=1000*1000*1000, G=1024*1024*1024, and so on for T, P, E, Z, Y. Binary prefixes can be used, too: KiB=K, MiB=M, and so on.
        Each CONV symbol may be:
        ascii from EBCDIC to ASCII
        ebcdic from ASCII to EBCDIC
               from ASCII to alternate EBCDIC
Manual page dd(1) line 1 (press h for help or q to quit)
```



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> Yes

```
YES(1)
                                                                                User Commands
NAME
        yes - output a string repeatedly until killed
SYNOPSIS
        yes [STRING]...
        yes OPTION
DESCRIPTION
        Repeatedly output a line with all specified STRING(s), or 'y'.
        --help display this help and exit
        --version
                 output version information and exit
AUTHOR
        Written by David MacKenzie.
REPORTING BUGS
        GNU coreutils online help: <a href="https://www.gnu.org/software/coreutils/">https://www.gnu.org/software/coreutils/></a>
        Report any translation bugs to <a href="https://translationproject.org/team/">https://translationproject.org/team/</a>
SEE ALSO
        Full documentation <a href="https://www.gnu.org/software/coreutils/yes">https://www.gnu.org/software/coreutils/yes</a>
        or available locally via: info '(coreutils) yes invocation'
        Packaged by Cygwin (9.0-1)
        Copyright © 2021 Free Software Foundation, Inc.
        License GPLv3+: GNU GPL version 3 or later <a href="https://gnu.org/licenses/gpl.html">https://gnu.org/licenses/gpl.html</a>.
        This is free software: you are free to change and redistribute it.
        There is NO WARRANTY, to the extent permitted by law.
GNU coreutils 9.0
                                                                               September 2021
```



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➤ Uname

```
UNAME(1)
                                                                                  User Commands
NAME
        uname - print system information
SYNOPSIS
        uname [OPTION]...
DESCRIPTION
        Print certain system information. With no OPTION, same as -s.
        -a, --all
                 print all information, in the following order, except omit -p and -i if unknown:
        -s, --kernel-name
                 print the kernel name
        -n, --nodename
                 print the network node hostname
        -r, --kernel-release
                 print the kernel release
        -v, --kernel-version
                 print the kernel version
        -m, --machine
                 print the machine hardware name
        -p, --processor
                 print the processor type (non-portable)
        -i, --hardware-platform
                 print the hardware platform (non-portable)
        -o, --operating-system
                 print the operating system
        --help display this help and exit
        --version
                 output version information and exit
AUTHOR
        Written by David MacKenzie.
        GNU coreutils online help: <a href="https://www.gnu.org/software/coreutils/">https://www.gnu.org/software/coreutils/>
        Report any translation bugs to <a href="https://translationproject.org/team/">https://translationproject.org/team/</a>
SEE ALSO
        arch(1), uname(2)
        Full documentation <a href="https://www.gnu.org/software/coreutils/uname">https://www.gnu.org/software/coreutils/uname</a> or available locally via: info '(coreutils) uname invocation'
        Packaged by Cygwin (9.0-1)
        Copyright © 2021 Free Software Foundation, Inc.
        License GPLv3+: GNU GPL version 3 or later <a href="https://gnu.org/licenses/gpl.html">https://gnu.org/licenses/gpl.html</a>. This is free software: you are free to change and redistribute it.
        There is NO WARRANTY, to the extent permitted by law.
Manual page uname(1) line 1 (press h for help or q to quit)
```

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> Grep

```
grep - print lines that match patterns
SYNOPSIS
           grep [OPTION...] PATTERNS [FILE...]
grep [OPTION...] -e PATTERNS ... [FILE...]
grep [OPTION...] -f PATTERN_FILE ... [FILE...]
           grep searches for <u>PATTERNS</u> in each <u>FILE</u>. <u>PATTERNS</u> is one or more patterns separated by newline characters, and grep prints each line that matches a pattern. Typically <u>PATTERNS</u> should be quoted when grep is used in a shell command.
           A <u>FILE</u> of "-" stands for standard input. If no <u>FILE</u> is given, recursive searches examine the working directory, and nonrecursive searches read standard input.
    Generic Program Information
--help Output a usage message and exit.
           -V, --version
Output the version number of grep and exit.
   Pattern Syntax
-E, --extended-regexp
Interpret <u>PATTERNS</u> as extended regular expressions (EREs, see below).
           -F, --fixed-strings
Interpret <u>PATTERNS</u> as fixed strings, not regular expressions.
           -G, --basic-regexp
Interpret PATTERNS as basic regular expressions (BREs, see below). This is the default.
          -P, --perl-regexp
Interpret PATTERNS as Perl-compatible regular expressions (PCREs). This option is experimental when combined with the -z
(--null-data) option, and grep -P may warn of unimplemented features.
   Matching Control

-e PATTERNS, --regexp=PATTERNS

Use PATTERNS as the patterns. If this option is used multiple times or is combined with the -f (--file) option, search for all patterns given. This option can be used to protect a pattern beginning with "-".
          -f <u>FILE</u>, --file=<u>FILE</u>

Obtain patterns from <u>FILE</u>, one per line. If this option is used multiple times or is combined with the -e (--regexp) option, search for all patterns given. The empty file contains zero patterns, and therefore matches nothing.
           -i, --ignore-case
Ignore case distinctions in patterns and input data, so that characters that differ only in case match each other.
                      gmore-case.
Do not ignore case distinctions in patterns and input data. This is the default. This option is useful for passing to shell scripts that already use -i, to cancel its effects because the two options override each other.
                     invert-match
Invert the sense of matching, to select non-matching lines.
                     word-regexp

Select only those lines containing matches that form whole words. The test is that the matching substring must either be at the beginning of the line, or preceded by a non-word constituent character. Similarly, it must be either at the end of the line or followed by a non-word constituent character. Word-constituent characters are letters, digits, and the underscore. This option grep(1) line 1 (press h for help or q to quit)
```

> Exit

```
BASH_BUILTINS(1)

RAME

bash, :, ., [, alias, bg, bind, break, builtin, caller, cd, command, compgen, complete, compopt, continue, declare, dirs, disown, echo, enable, eval, exec, exit, export, false, fc, fg, getopts, hash, help, history, jobs, kill, let, local, logout, mapfile, popd, printf, pushd, pwd, read, readonly, return, set, shift, shopt, source, suspend, test, times, trap, true, type, typeset, ulimit, umask, unalias, unset, wait - bash built-in commands, see bash(1)

BASH_BUILTIN COMMANDS

SEE ALSO

bash(1), sh(1)

BASH_BUILTINS(1)

BASH_BUILTINS(1)
```

Создание директивы

```
PC@DESKTOP-T5BKQ5D ~

$ mkdir dir1

PC@DESKTOP-T5BKQ5D ~

$ cd dir1
```

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Определить версию

```
PC@DESKTOP-T5BKQ5D ~/dir1
$ uname --version
uname (GNU coreutils) 9.0
Packaged by Cygwin (9.0-1)
Copyright (C) 2021 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later <a href="https://gnu.org/licenses/gpl.html">https://gnu.org/licenses/gpl.html</a>.
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.
Written by David MacKenzie.
```

```
PC@DESKTOP-T5BKQ5D ~/dir1
$ uname --version > file2
```

> \$PATH

```
PC@DESKTOP-T5BKQ5D ~/dir1
$ echo $PATH >> file2

PC@DESKTOP-T5BKQ5D ~/dir1
$ cat file2
uname (GNU coreutils) 9.0
Packaged by Cygwin (9.0-1)
Copyright (C) 2021 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later <a href="https://gnu.org/licenses/gpl.html">https://gnu.org/licenses/gpl.html</a>.
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.

Written by David MacKenzie.
```

Сведения о системе в другой файл

```
PC@DESKTOP-T5BKQ5D ~/dir1
$ uname > file3

PC@DESKTOP-T5BKQ5D ~/dir1
$ cat file3
CYGWIN_NT-10.0-19043
```

Изменить права доступа

```
PC@DESKTOP-T5BKQ5D ~/dir1
$ uname > file3

PC@DESKTOP-T5BKQ5D ~/dir1
$ cat file3
CYGWIN_NT-10.0-19043

PC@DESKTOP-T5BKQ5D ~/dir1
$ chmod o-r file2

PC@DESKTOP-T5BKQ5D ~/dir1
$ chmod o-r file3

PC@DESKTOP-T5BKQ5D ~/dir1
$ ls -al file2
-rw-r----- 1 PC OTCYTCTBYET 716 Oct 19 15:51 file2

PC@DESKTOP-T5BKQ5D ~/dir1
$ ls -al file3
-rw-r----- 1 PC OTCYTCTBYET 21 Oct 19 16:12 file3
```



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Полные сведения

```
PC@DESKTOP-T5BKQ5D ~/dir1
$ ls -l
total 2
-rw-r---- 1 PC Отсутствует 716 Oct 19 15:51 file2
-rw-r---- 1 PC Отсутствует 21 Oct 19 16:12 file3
```

Посчитать количество процессов

```
DESKTOP-T5BKQ5D ~/dir1
            PPID
   PID
                     PGID
                                WINPID
                                          TTY
                                                         UID
                                                                 STIME COMMAND
             878
                                                     197609 16:15:30 /usr/bin/ps
   897
                      897
                                  7696
                                         pty0
                                                     197609 15:36:44 /usr/bin/bash
197609 15:36:42 /usr/bin/mintty
   878
             877
                      878
                                 11312
                                         pty0
   877
                      877
                                 11608
```

> Sh

```
PC@DESKTOP-T5BKQ5D ~/dir1
$ sh
```

Посчитать количество процессов

```
SKTOP-T5BKQ5D ~/dir1
ps
           PPID
    PID
                   PGID
                             WINPID
                                      TTY
                                                  UID
                                                          STIME COMMAND
    899
            898
                    899
                               8120
                                     pty0
                                               197609 16:15:42 /usr/bin/ps
                              11312
                                               197609 15:36:44 /usr/bin/bash
    878
            877
                    878
                                     pty0
                               8804
                                               197609 16:15:34 /usr/bin/sh
    898
            878
                    898
                                     pty0
    877
                    877
                              11608
                                               197609 15:36:42 /usr/bin/mintty
```

➤ Завершить shell

```
T5BKQ5D ~/dir1
 kill -KILL 898
Killed
C@DESKTOP-T5BKQ5D ~/dir1
      PID
             PPID
                     PGID
                               WINPID
                                        TTY
                                                           STIME COMMAND
      900
              878
                      900
                                6036 pty0
                                                 197609 16:16:07 /usr/bin/ps
                                                 197609 15:36:44 /usr/bin/bash
      878
              877
                      878
                                11312
                                       pty0
      877
                      877
                                11608
                                                 197609 15:36:42 /usr/bin/mintty
```

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Nano

NANO(1) NAME nano - Nano's ANOther editor, inspired by Pico SYNOPSIS nano [options] [[+line[,column]] file]... nano [options] [[+[crCR](/|?)string] file]... NOTICE Since version 4.0, nano by default: does not automatically hard-wrap lines that become overlong,
includes the line below the title bar in the editing area,
does linewise (smooth) scrolling. you want the old, Pico behavior back, you can use --breaklonglines, --emptyline, and --jumpyscrolling (or -bej for short). DESCRIPTION namo is a small and friendly editor. It copies the look and feel of Pico, but is free software, and implements several features that Pico lacks, such as: opening multiple files, scrolling per line, undo/redo, syntax coloring, line numbering, and soft-wrapping overlong lines. When giving a filename on the command line, the cursor can be put on a specific line by adding the line number with a plus sign (+) before the filename, and even in a specific column by adding it with a comma. (Negative numbers count from the end of the file or line.) The cursor can be put on the first or last occurrence of a specific string by specifying that string after +/ or +? before the filename. The string can be made case sensitive and/or caused to be interpreted as a regular expression by inserting c and/or r after the + sign. These search modes can be explicitly disabled by using the uppercase variant of those letters: C and/or R. When the string contains spaces, it needs to be enclosed in quotes. To give an example: to open a file at the first occurrence of the word "Foo", one would do: nano +c/Foo file As a special case: if instead of a filename a dash (-) is given, nano will read data from standard input. EDITING Entering text and moving around in a file is straightforward: typing the letters and using the normal cursor movement keys. Commands are entered by using the Control (^) and the Alt or Meta (M-) keys. Typing ^K deletes the current line and puts it in the cutbuffer. Consecutive ^Ks will put all deleted lines together in the cutbuffer. Any cursor movement or executing any other command will cause the next ^K to overwrite the cutbuffer. A ^U will paste the current contents of the cutbuffer at the current cursor position. When a more precise piece of text needs to be cut or copied, one can mark its start with 6 6, move the cursor to its end (the marked text will be highlighted), and then use 6 K to cut it, or M-6 to copy it to the cutbuffer. One can also save the marked text to a file with 6 0, or spell check it with 6 T. On some terminals, text can be selected also by holding down Shift while using the arrow keys. Holding down the Ctrl or Alt key too will increase the stride. Any cursor movement without Shift being held will cancel The two lines at the bottom of the screen show some important commands; the built-in help (AG) lists all the available ones. The default key bindings can be changed via a <u>nanorc</u> file -- see **nanorc**(5). OPTIONS Make the Home key smarter. When Home is pressed anywhere but at the very peginning of non-whitespace characters on a line, the cursor will jump to that beginning (either forwards or backwards). If the cursor is already at that position, it will jump to the troetbeginning cos athe Minde ws. перейдите в раздел Manual page nano(1) line 1 (press h for help or q to quit)

Ссоздать файл

GNU nano 4.9 «Печален ты; признайся, что с тобой». – Люблю, мой друг! – «Но кто ж тебя пленила?» – Она. – «Да кто ж? Глидера ль, Хлоя, Лила?» – О, нет! – «Кому ж ты жертвуешь душой?» – Ах! ей! – «Ты скромен, друг сердечный! Но почему ж ты столько огорчен? И кто виной? Супруг, отец, конечно…» – Не то, мой друг! – «Но что ж!» – Я ей не он.



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Вывести сведения

```
PC@DESKTOP-T5BKQ5D ~/dir1
$ echo /etc/passwd
/etc/passwd
```

Help

```
GNU bash, version 4.4.12(3)-release (x86_64-unknown-cygwin)
These shell commands are defined internally. Type 'help' to see this list.
Type 'help name' to find out more about the function 'name'.
Use 'info bash' to find out more about the shell in general.
Use 'man -k' or 'info' to find out more about commands not in this list.
     star (*) next to a name means that the command is disabled.
                                                                                                                                                                                                                                                         history [-c] [-d offset] [n] or history -anrw [filename] > if COMMANDS; then COMMANDS; [ elif COMMANDS; then COMMAND> jobs [-lnprs] [jobspec ...] or jobs -x command [args] kill [-s sigspec | -n signum | -sigspec] pid | jobspec ..> let arg [arg ...] local [option] name[=value] ...
   job_spec [&]
   (( expression ))
. filename [arguments]
     [[ expression ]]
[[ expression ]]
alias [-p] [name[=value] ... ]
bg [job_spec ...]
bind [-lpsvPSVX] [-m keymap] [-f filename] [-q name] [-u n>
break [n]
builtin [shell-builtin [arg ...]]
caller [expr]
case WORD in [PATTERN [| PATTERN]...) COMMANDS;;]... esa>
cd [-L|[-P [-e]] [-@]] [dir]
command [-pVV] command [arg ...]
compen [-abcdefgiksuv] [-o option] [-A action] [-G globpa>
complete [-abcdeffiksuv] [-pr] [-DF] [-o option] [-A actio>
select NAME [in WORDS ...:] do COMMANDS; done
bind [-]psvPSVX] [-m keymap] [-f filename] [-q name] [-u n>break [n]
builtin [shell-builtin [arg ...]]
caller [expr]
case WORD in [PATTERN [| PATTERN]...) COMMANDS ;;]... esa>
cd [-L|[-P [-e]] [dir]
command [-pVv] command [arg ...]
compgen [-abcdefgjksuv] [-o option] [-A action] [-G globpa>
complete [-abcdefgjksuv] [-pr] [-DE] [-o option] [-A actio>
compopt [-o|+o option] [-DE] [name ...]
continue [n]
                                                                                                                                                                                                                                                         return [n]
select NAME [in WORDS ... ;] do COMMANDS; done
set [-abefhkmnptuvxBCHP] [-o option-name] [--] [arg ...]
shift [n]
shopt [-pqsu] [-o] [optname ...]
source filename [arguments]
suspend [-f]
test [avan]
compopt [-0]+0 option] [-DE] [name ...]
continue [n]
coproc [NAME] command [redirections]
declare [-aAfFgilnrtux] [-p] [name[=value] ...]
dirs [-clpv] [+N] [-N]
disown [-h] [-ar] [jobspec ... | pid ...]
echo [-neE] [arg ...]
enable [-a] [-dnps] [-f filename] [name ...]
eval [arg ...]
                                                                                                                                                                                                                                                          test [expr]
time [-p] pipeline
                                                                                                                                                                                                                                                           times
  enable [-a] [-onps] [-T filename] [name ...] times
eval [arg ...]
exec [-c1] [-a name] [command [arguments ...]] [redirectio> true
exit [n] type
export [-fn] [name[=value] ...] or export -p
types
                                                                                                                                                                                                                                                           trap [-lp] [[arg] signal_spec ...]
 exec [-cl] [-a name] [command [arguments ...]] [redirectio>
exit [n]
export [-fn] [name[=value] ...] or export -p
false
fc [-e ename] [-lnr] [first] [last] or fc -s [pat=rep] [co>
fg [job_spec]
for NAME [in WORDS ...]; do COMMANDS; done
for (( exp1; exp2; exp3 )); do COMMANDS; done
function name { COMMANDS; } or name () { COMMANDS; }
getopts optstring name [arg]
hash [-lr] [-p pathname] [-dt] [name ...]
hash [-lm] [-dms] [pattern ...]

true
type [-afptP] name [name ...]
typeset [-aAfFgilnrtux] [-p] name[=value] ...
ulimit [-SHabcdefiklmnpqrstuvxPT] [limit]
umask [-p] [-S] [mode]
unalias [-a] name [name ...]
unset [-f] [-v] [-n] [name ...]
variables - Names and meanings of some shell variables
wait [-n] [id ...]
while COMMANDS; done
function lame [arg]
hash [-lm] [-dms] [pattern ...]

While COMMANDS; do COMMANDS; done
{ COMMANDS; }
       @DESKTOP-T5BKQ5D ~/dir1
```



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If, for, while, until

```
C@DESKTOP-T5BKQ5D ~/dir1
if: if COMMANDS; then COMMANDS; [ elif COMMANDS; then COMMANDS; ]... [ else COMMANDS; ] fi
    Execute commands based on conditional.
    The 'if COMMANDS' list is executed. If its exit status is zero, then the
    'then COMMANDS' list is executed. Otherwise, each 'elif COMMANDS' list is
    executed in turn, and if its exit status is zero, the corresponding
    'then COMMANDS' list is executed and the if command completes. Otherwise, the 'else COMMANDS' list is executed, if present. The exit status of the entire construct is the exit status of the last command executed, or zero
    if no condition tested true.
    Exit Status:
    Returns the status of the last command executed.
 C@DESKTOP-T5BKQ5D ~/dir1
$ help for
for: for NAME [in WORDS ... ]; do COMMANDS; done
    Execute commands for each member in a list.
    The 'for' loop executes a sequence of commands for each member in a
    list of items. If `in WORDS \dots;' is not present, then `in "$@"' is
    assumed. For each element in WORDS, NAME is set to that element, and
    the COMMANDS are executed.
    Exit Status:
    Returns the status of the last command executed.
 C@DESKTOP-T5BKQ5D ~/dir1
$ help while
while: while COMMANDS; do COMMANDS; done
    Execute commands as long as a test succeeds.
    Expand and execute COMMANDS as long as the final command in the
     'while' COMMANDS has an exit status of zero.
    Exit Status:
    Returns the status of the last command executed.
C@DESKTOP-T5BKQ5D ~/dir1
$ help until
until: until COMMANDS; do COMMANDS; done
    Execute commands as long as a test does not succeed.
    Expand and execute COMMANDS as long as the final command in the
     'until' COMMANDS has an exit status which is not zero.
    Exit Status:
    Returns the status of the last command executed.
```

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```
ADESKTOP-T5BKQ5D ~/dir1
$ help [[ expression]]
[[ ... ]]: [[ expression ]]
Execute conditional command.
    Returns a status of 0 or 1 depending on the evaluation of the conditional
    expression EXPRESSION. Expressions are composed of the same primaries used by the 'test' builtin, and may be combined using the following operators:
                           Returns the value of EXPRESSION
       ( EXPRESSION )
       ! EXPRESSION
                                    True if EXPRESSION is false; else false
      EXPR1 && EXPR2
                           True if both EXPR1 and EXPR2 are true; else false
       EXPR1 || EXPR2
                           True if either EXPR1 or EXPR2 is true; else false
    When the `==' and `!=' operators are used, the string to the right of
    the operator is used as a pattern and pattern matching is performed.
    When the '=~' operator is used, the string to the right of the operator
    is matched as a regular expression.
    The && and || operators do not evaluate EXPR2 if EXPR1 is sufficient to
    determine the expression's value.
    Exit Status:
                                                                               Активация \
    0 or 1 depending on value of EXPRESSION.
```

Создать директорию

```
PC@DESKTOP-T5BKQ5D ~

$ mkdir dir1

PC@DESKTOP-T5BKQ5D ~

$ cd dir1
```

Присвоить значерие переменной

```
PC@DESKTOP-T5BKQ5D ~/dir1
$ echo hello
hello

PC@DESKTOP-T5BKQ5D ~/dir1
$ hello="hi, man"

PC@DESKTOP-T5BKQ5D ~/dir1
$ echo $hello
hi, man
```

Рандомное число

```
PC@DESKTOP-T5BKQ5D ~/dir1
$ echo $RANDOM
2743
```

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Записать скрипт в файл

```
GNU nano 4.9
#!/bin/bash
echo "hello man"
```

> Сделать файл исполняемым

 Скрипт по варианту (вывести на экран количество пользователей зарегистрированных в системе)

```
GNU nano 4.9
#!/bin/bash
for var in list
do
compgen -u
done
```

```
PC@DESKTOP-T5BKQ5D ~/dir1
$ chmod a+x file1

PC@DESKTOP-T5BKQ5D ~/dir1
$ ./file1
PC
CИСТЕМА
Unknown+User
CИСТЕМА
LOCAL SERVICE
NETWORK SERVICE
Администраторы
NT SERVICE+TrustedInstaller
```



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> Удалить дирикторию

PC@DESKTOP-T5BKQ5D ~ \$ rm -R dir1