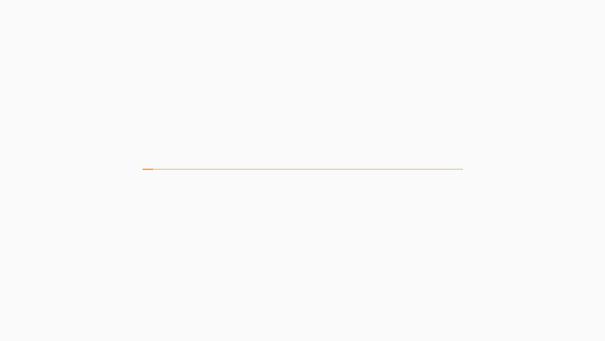
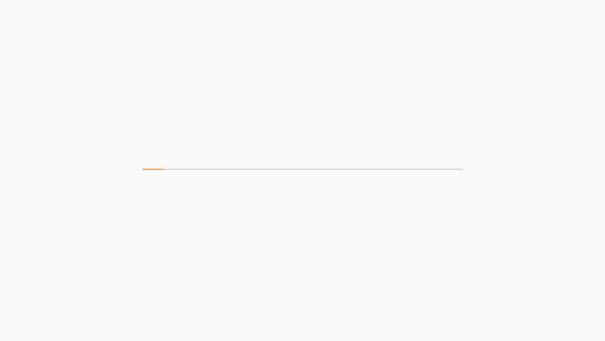
Nº4

Unix



-03-23



Linux - . shell: /bin/sh; /bin/csh; /bin/ksh. (), - - () . . , - . .

- man
- cdpwd
- Is
- mkdir
- rm
- history

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```
User Commands
1s - list directory contents
List information about the FILEs (the current directory by default). Sort entries alpha-
betically if none of -cftuvSUX nor --sort is specified.
Mandatory arguments to long options are mandatory for short options too.
       do not ignore entries starting with .
       do not list implied . and ...
       with -1, print the author of each file
       print C-style escapes for nongraphic characters
       with -1, scale sizes by SIZE when printing them; e.g., '--block-size=M'; see SIZE
       format below
       do not list implied entries ending with ~
       with -lt: sort by, and show, ctime (time of last change of file status informa-
       tion): with -1: show ctime and sort by name: otherwise: sort by ctime, newest first
```



/tmp

POSIX Programmer's Manual This manual page is part of the POSIX Programmer's Manual. The Linux implementation of this interface may differ (consult the corresponding Linux manual page for details of Linux behavior), or the interface may not be implemented on Linux. cd - change the working directory The cd utility shall change the working directory of the current shell execution environment (see Section 2.12, Shell Execution Environment) by executing the following steps in sequence. (In the following steps, the symbol curpath represents an intermediate value used to simplify the description of the algorithm used by cd. There is no requirement that curpath be made visible to the application.) 1. If no directory operand is given and the HOME environment variable is empty or undefined, the default behavior is implementation-defined and no further steps shall be 2. If no directory operand is given and the HOME environment variable is set to a nonempty value, the cd utility shall behave as if the directory named in the HOME environment variable was specified as the directory operand. 3. If the directory operand begins with a <slash> character, set curpath to the operand and proceed to step 7. 4. If the first component of the directory operand is dot or dot-dot, proceed to step 6.

/tmp

ls

in CDPATH until all pathnames have been tested.

- 6. Set curpath to the directory operand.
- 7. If the -P option is in effect, proceed to step 10. If curpath does not begin with a slash» character, set curpath to the string formed by the concateration of the value of PMO, a slash» character if the value of PMO did not end with a slash» character, and curpath of the value of PMO did not end with a slash» character, and curpath of the value of PMO did not end with a slash.
- 8. The curpath value shall then be converted to canonical form as follows, considering each component from beginning to end, in sequence:
 - a. Dot components and any ${\rm slash}{\rm >}$ characters that separate them from the next component shall be deleted.
 - b. For each dot-dot component, if there is a preceding component and it is neither root nor dot-dot, then:
 - If the preceding component does not refer (in the context of pathname resolution with symbolic links followed) to a directory, then the <u>cd</u> utility shall display an appropriate error message and no further steps shall be taken.
 - The preceding component, all <slash> characters separating the preceding component from dot-dot, dot-dot, and all <slash> characters separating dot-dot from the following component (if any) shall be deleted.
 - c. An implementation may further simplify curpath by removing any trailing <slash/ characters that are not also leading <slash> characters, replacing multiple nonleading consecutive <slash> characters with a single <slash>, and replacing three or more leading <slash> characters with a single <slash>. If, as a result of this cannoicalization, the curpath variable is null, no further steps shall be taken.
- 9. If curpath is longer than (PANLMAX) bytes (including the terminating null) and the directory operand was not longer than (PANLMAX) bytes (including the terminating null), then curpath shall be converted from an absolute pathname to an equivalent relative pathname if possible. This conversion shall always be considered possible if the value of 220, with a trailing sclash added if it does not already have one, is an initial substring of curpath. Whether not it is considered possible under other circumstances is unspecified. Implementations may also apply this conversion if curpath is not longer than (PANLMAX) bytes or the <u>directory</u> operand was longer than

Is -a Is -F

ls -a



. 4: ls -a

ls -F

ls -F

```
RMDIR(1)
                                     User Commands
rmdir - remove empty directories
Remove the DIRECTORY(ies), if they are empty.
       ignore each failure to remove a non-empty directory
       remove DIRECTORY and its ancestors; e.g., 'rmdir -p a/b' is similar to 'rmdir a/b
       output a diagnostic for every directory processed
--help display this help and exit
       output version information and exit
Written by David MacKenzie
GNU coreutils online help: <a href="https://www.gnu.org/software/coreutils/">https://www.gnu.org/software/coreutils/>
or available locally via: info '(coreutils) rmdir invocation'
```

. . .

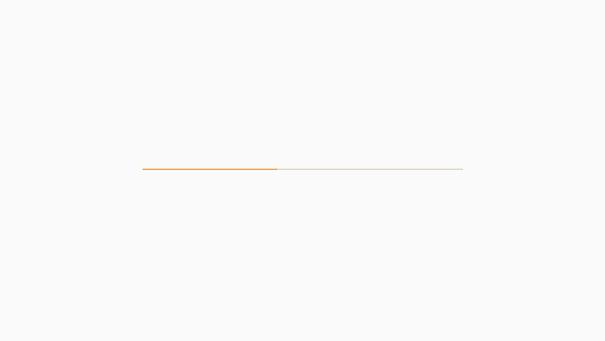
/var/spool

cron

```
User Commands
                                                                                   RM(1)
rm - remove files or directories
This manual page documents the GNU version of rm. rm removes each specified file. By de-
fault, it does not remove directories.
If the -I or --interactive=once option is given, and there are more than three files or
the -r. -R, or --recursive are given, then rm prompts the user for whether to proceed with
the entire operation. If the response is not affirmative, the entire command is aborted.
Otherwise, if a file is unwritable, standard input is a terminal, and the -f or --force
option is not given, or the -i or --interactive=always option is given, rm prompts the
user for whether to remove the file. If the response is not affirmative, the file is
skipped.
Remove (unlink) the FILE(s).
      ignore nonexistent files and arguments, never prompt
      prompt before every removal
      prompt once before removing more than three files, or when removing recursively:
      less intrusive than -i, while still giving protection against most mistakes
      prompt according to WHEN: never, once (-I), or always (-i): without WHEN, prompt
      always
```

```
aagorbachev@dk2n27 ~ $ man ls
aagorbachev@dk2n27 ~ $ man cd
aagorbachev@dk2n27 ~ $ man pws
Нет справочной страницы для pws
aagorbachev@dk2n27 ~ $ man cd
aagorbachev@dk2n27 ~ $ man mkdir
aagorbachev@dk2n27 ~ $ man rmdir
aagorbachev@dk2n27 ~ $ man rm
aagorbachev@dk2n27 ~ $ history
   2 pwd
   4 cd -
   5 cd . .
   6 cd
   7 pwd
   8 /usr/local
   9 cd -
  10 owd
  11 pwd
  12 ls
  13 pwd
  14 cd /
  15 ls
  18 gsrt=ul~dy9\
  19 pwd
  20 cd /
  23 pwd
  24 cd
  25 pwd
  26 cd
```

```
52 git config --global user.name "<Alexsev Gorbachev>"
53 git config --global user.email "<alexg-2005@yandex.ru>"
54 git config --global core.quotepath false
55 git config --global init.defaultBranch master
56 git config --global core.autocrlf input
57 git config --global core.safecrlf warn
58 ssh-keygen -C "Alexsey Gorbachey <alexg-2005@yandex.ru>"
59 ssh-keygen -C "Alexsey Gorbachev <alexg-2005@yandex.ru>"
60 cat ~/.ssh/id_rsa.pub
61 mkdir -p ~/work/study/2023-2024/"Архитектура компьютера"
62 cd work/study/2023-2024/'Архитектура компьютера'
63 git clone --recursive git@github.com:gorbachev/study_2023-2024_arh--pc.git
64 git clone --recursive git@github.com:AAGorbachev1/study 2023-2024 arch--pc.git
65 cd ~/work/study/2023-2024/"Apхитектура компьютера"/study_2023-2024_arch--pc
66 rm package, ison
67 echo arch-pc > COURSE
68 make
69 git commit -am 'feat(main): make course structure'
70 git commit -am 'feat(main): make course structure'
71 git add
72 git add
73 git commit -am 'feat(main): make course structure'
74 git push
75 cd Downloads
76 cd -/work/study/2023-2024/"Архитектура компьютера"/arch-pc
77 cd -/work/study/2023-2024/"Архитектура компьютера"/study 2023-2024 arch--pc
78 git pull
79 cd -/work/study/2023-2024/"Архитектура компьютера"/study_2023-2024_arch--pc/labs/lab03/repor
80 cd ~/work/study/2023-2024/"Apхитектура компьютера"/study_2023-2024_arch--pc/labs/lab03/repor
81 make
82 make clean
83 gedit report.md
84 git add .
85 git commit -am 'feat(main): add files lab-3'
86 make
87 mkdir -p ~/work1/arch-pc/lab04
88 cd ~/work1/arch-pc/lab04
89 touch hello asm
90 ls
91 gedit hello.asm
```



newdir.

```
aagorbachev@dk2n27 ~ $ cd
aagorbachev@dk2n27 ~ $ pwd
/afs/.dk.sci.pfu.edu.ru/home/a/a/aagorbachev
```

. 9: newdir

3.2

~/newdir morefun.

nagorbachev@dk2n27 - \$ cd /tmp

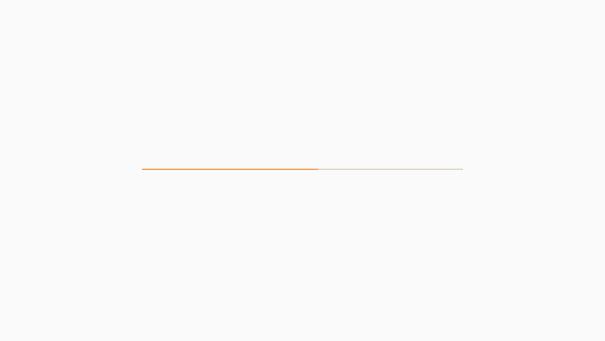
. 10: morefun

letters, memos, misk.

```
aagorbachev@dk2n27 /tmp $ ls
askuznecova
krb5cc 5437 EAiiug
krb5cc_5437_fgknIi
krb5cc_5463_0iw1fv
mozilla-temp-1078829588
mozilla-temp-1109262132
mozilla-temp-731208750
mozilla-temp-97634119
portage
oulse-PKdhtXMmr18n
systemd-private-0ef6b14b846044dbb81d2d1338a8e865-colord.service-IKVaKH
systemd-private-0ef6b14b846044dbb81d2d1338a8e865-systemd-logind.service-W85m8w
systemd-private-0ef6b14b846044dbb81d2d1338a8e865-systemd-timesyncd.service-cihI2S
systemd-private-0ef6b14b846044dbb81d2d1338a8e865-upower.service-r1iiqf
```

~/newdir/morefun

. 12: newdir



man

```
aagorbachev@dk2n27 /tmp $ ls -F
gnome-desktop-thumbnailer-LDK7J2/
krb5cc_5437_EAiiug
krb5cc 5437 fgknIi
krb5cc_5463_Qiw1fy
mozilla-temp-1078829588
mozilla-temp-1109262132
mozilla-temp-731208750
mozilla-temp-97634119
portage/
pulse-PKdhtXMmr18n/
systemd-private-0ef6b14b846044dbb81d2d1338a8e865-colord.service-IKVgKH/
systemd-private-0ef6b14b846044dbb81d2d1338a8e865-systemd-logind.service-W85m8w/
```

ls

. **13:** man ls 18/31

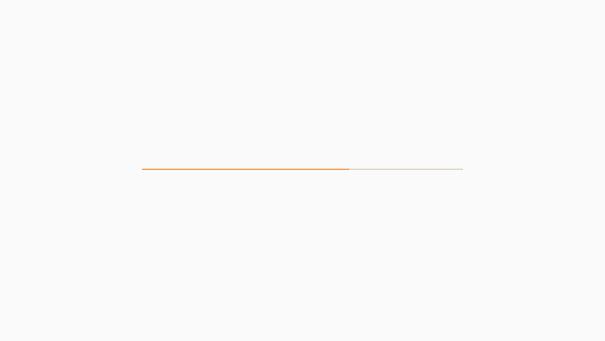
```
augoritachivelistici / / tep 5 15 / var/spool
cops
augoritachivelistici / / tep 5 cd
augoritachivelistici / * * * 15
augoritachivelistici / * * 15
de 4 Architecturi, / * * 24 and cop tep Stovymento hysiosa Badness
4 Architecturi, / * * 24 and cop tep Stovymento hysiosa Badness
4 Oktober public seri Storyma Geometryment
6 Notice public seri Storyma Geometryment
```

. 14: man ls

```
augorbachwidth/217 /tsp 5 1s /var/spool
cops
sacprhachwidth/27 /tsp 5 cd
sacprhachwidt
```

. 15: -R, -recursive

Is -R

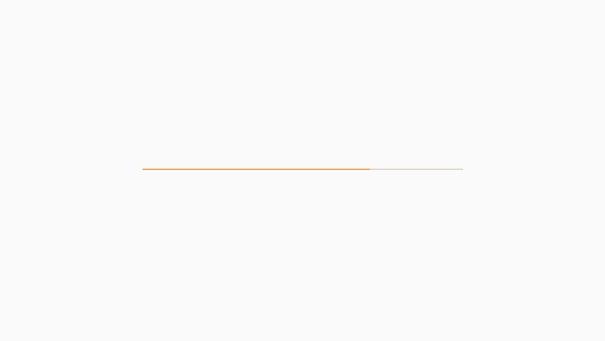


man ls, -

-time-style

```
TOFO 58
drwxr-xr-x 2 aagorbachev studsci 2048 ноя 23 19:16 44
drwxr-xr-x 2 aagorbachev studsci 2848 aex 8 16:42 5
drwxr-xr-x 2 aagorbachev studsci 2048 gex 11 16:29 6
drave-ve-v 4 apportaches student 2048 ces 28 12:41 Architecture PC
drwxr-xr-x 3 aagorbachev studsci 2048 gex 11 16:08 GNUstep
-rwxr-xr-x 1 aagorbachev studsci 16104 cen 20 16:42 main
-гw-r--r-- 1 aagorbachev studsci 173 сен 20 16:42 main.com
drwxr-xr-x 3 aagorbachev root 2048 сен 5 2023 public
 Irwxr-xr-x 2 aagorbachev studsci 2048 gek 11 16:86 top
 irwxr-xr-x 4 aagorbachev studsci 2048 gex 11 16:24 work
 Irwxr-xr-x 2 aagorbachev studsci 2048 сен 14 12:39 Видео
 Irwxr-xr-x 2 aagorbachev studsci 2048 сен 14 12:39 Документы
drwxr-xr-x 2 aagorbachev studsci 2048 Map 7 16:25 3arpvaxu
drwxr-xr-x 3 aagorbachev studsci 2048 ноя 22 17:14 Изображения
drwxr-xr-x 2 aagorbachev studsci 2048 сен 14 12:39 Музыка
```

. $\bf 16:$ –time-style=TIME_STYLE



man : cd, pwd, mkdir, rmdir, rm.



. 17: man cd

```
asgerbachev808.207 - $ cd newdir
asgerbachev808.207 - 7 medir $ skdir nerefun
asgerbachev808.207 - 7 medir $ 1 s
norefun
asgerbachev808.207 - 7 medir $ cd
```

. 18: man pwd

mkdir



. 19: man mkdir

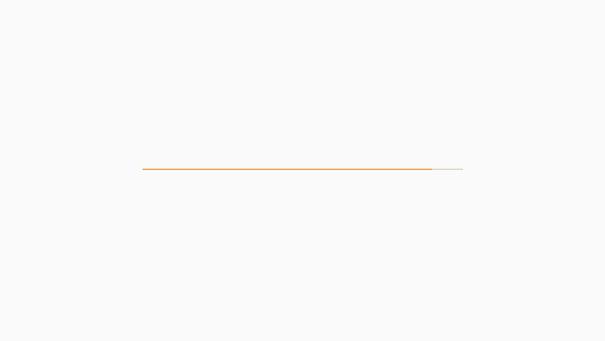
rmdir

```
agorbachev000ch27 - $ mkdir letters nemos nisk
agorbachev000ch27 - 11 mkdir letters nemos nisk
de Architecture20 main nemdir public.html Boppo Haodpaxenum "Pudovuml crom"
5 Odbizeno main cop nisk tap Accymentu Mysawc
5 letters nemos public work Sarpyan Odmippoctynnum
```

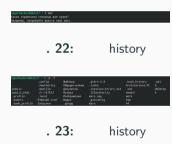
. 20: man rmdir

```
aagorbashwokki2n27 - s ra -r letters nemos nisk
aagorbashwokki2n27 - s lis
44 - Zechitectum Z.C. main.cop public_html Bogen Hadopasmusa 'Fadovusi croa'
5 - GROLECTU Z.C. memilir bip Zecymenru Hypasic
5 - dROLECTU Z.C. memilir bip Zecymenru Hypasic Meginicityrism
```

. 21: man rm

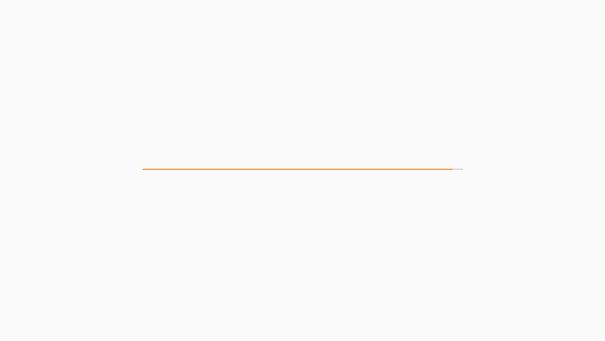


history



```
lagorbachev@dk2n27 ~ $ 1s -a ... bashrc ... ICEauthority ... public ... Документы ... arry эки ... 44 ... config ... ssh ... изображения ... ssh ... изображения ... 44 ... config ... ssh ... изображения ... 45 ... ... 16 ... sth ... изображения ... 46 ... gitconfig ... oxilla ... work ... 05медоступные ... 47 ... 47 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 48 ... 4
```

. **24:** №493



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