fdisk - утилита управления таблицами слайсов жесткого диска

????????

fdisk - ??????? ?????????? ????????? ??????? ???????? ?????

?????????

fdisk [-BIaipstu] [-b ?????????] [-1234] [????]
fdisk -f ????_???????????? [-itv] [????]

??????

????? BIOS ???? ????????? ????, ?????????? ????????????? ???????????
??????????. ??????? ?????? ????? ?????? ????????? ?????????? ???,
??????? ??????? ? ?????????? ?????. ????????? ?????? BIOS, ???? ?????
???? ??????? ?? ????????? ??????. BIOS ????????? ??????? ?????? ? ?????-
???? ?????????? ?????. ????? ?????????? ??? ?? ???????? ??????? ?????-
???? ??????? ???????, ????? ????? ?????, ?????????? ??? ``????????''.
????? ?? ????????? ????????? ????????? ???????? ?? ????????? ??????, ?
???? ????? ??????? ??? ??????????, ????????? ??. ? DOS ????? ????
????????? ???????, ???? ?? ??????? ????? ????????. ??????? fdisk ??? DOS
????????? ????????? ???????? ??????????? ?? ?????? ? ???????? ???? ??
??? ??? ????????.

??????? fdisk ??? FreeBSD ?????? ??? ?? ?????, ??? ? ?????????? ?? ???-
???? ??? DOS. ?????? ????? ?????? ??????????? ??? ?????? ?????????? ?
?????????? ??????? ??? ??? ?? ????????????? ? ???????????? ??????.
?????? - ??? ?????? ??????? ??????? c ????????????? ????? ???????????
????_????????????; ??? ???????????? ??? ???????????? ??????? ??????????
??? ??????????.

????????

fdisk ???????????? ????????? ?????:

-a ?????? ???????? ???????? ?????. ???????????? ? ????????? ?
?????? -f.

-b ?????????
???????????? ??? ???????? ?? ????? ?????????. ?? ?????????
???????????? /boot/mbr.

-B ???????? ??? ???????? ? ??????? ??????? ?????. ???????????? ?
????????? ? ?????? -f.

-f ????_????????????
?????????? ????????? ??????? ?? ????? ????_????????????. ? ????-
??? ????? ???????????? ???????? ????????? ?????? ???? ?????????
???????, ?? ???? ????? ??????? ????? -i, ?? ????? ??????? ?????
???????????? ??? ???????????? ?????? ????????? (?????????? ???
?????????????, ``unused''). ??? ???????? `-' ? ???????? ?????
???????????? ????? ????????????? ?????????? ????. ????????
??????? ????? ???????????? ???????? ???? ? ?????? ????
???????????.

?????????????: ? ??????? ?? ????????????? ??????, ??? ????????-
????? ????? -f ????????? ???????? ??? ??????? ?? ????????????.
?????????? ????????????!

-i ?????????????? ??????? ?????? ?????. ????? ??????????????,
??????????? ?????? ????? ???????? ??? ?????????????
(``unused''). (???????? ? -u.)

-I ?????????????? ??????? ??????? ? ??????? 0 ????? ???????
FreeBSD ?? ???? ????.

-p ??????? ??????? ??????? ? ??????? ?????????????? ?????
fdisk ? ?????; ??. ???? ??????????? ????.

-s ??????? ??????? ????????? ? ?????.

-t ????? ???????????: ????????? ?? ???? ??????????? ?? ?????. ???
???????, ??????????? ????????? ? ?????? -f ????? ??????, ???
???? ?? ???????? ? ??????? ???????. ???????? ????? -v.

-u ???????????? ??????? ??????? ????? ? ??????? 0. ???????????? ?
????????? ? ?????? -f.

-v ???????? ????????? ?????????. ? ????????? ? -f, fdisk ????????
???????????? ??????? ???????.

-1234 ?????????? ?????? ? ????? ???????. ???????????? ? ????????? ?
?????? -f.

? ???????? ????????? ????? ????????? ???????? ??? ?????? ????? ?????
(????????, da0), ??? ? ??????? ???? ? ????. ???? ???????? ?? ??????,
fdisk ???????? ?????????? ??? ????? ?? ????????? ?? ????? ??????????, ??
??????? ????????? ???????? ???????? ???????.

??? ?????? ??? ?????????? ?????????? ??????? ??????? ?? ??????? 0.
??????:

```
******* Working on device /dev/ad0 *******
parameters extracted from in-core disklabel are:
cylinders=769 heads=15 sectors/track=33 (495 blks/cyl)

parameters to be used for BIOS calculations are:
cylinders=769 heads=15 sectors/track=33 (495 blks/cyl)

Warning: BIOS sector numbering starts with sector 1
Information from DOS bootblock is:
The data for partition 1 is:
sysid 165,(FreeBSD/NetBSD/386BSD)
    start 495, size 380160 (185 Meg), flag 0
        beg: cyl 1/ sector 1/ head 0;
        end: cyl 768/ sector 33/ head 14
The data for partition 2 is:
sysid 164,(unknown)
    start 378180, size 2475 (1 Meg), flag 0
        beg: cyl 764/ sector 1/ head 0;
        end: cyl 768/ sector 33/ head 14
The data for partition 3 is:

The data for partition 4 is:
```

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        sysid 99,(ISC UNIX, other System V/386, GNU HURD or Mach)
            start 380656, size 224234 (109 Meg), flag 80
                beg: cyl 769/ sector 2/ head 0;
                end: cyl 197/ sector 33/ head 14
```

???? ??????? ?? ??? ??????, ??????? ????????? ??? ?????????. ?????? ????? ???????? ???????????? ? ?????? ???????. (???????????? ? ????? ???????.)

sysid ???????????? ??? ????????? ???????. FreeBSD ?????-?????? ??? ???? ????????? ????? 165 ? ????????? ??????? ????????? (A5 ? ???????????????).

start ? size ????, ????????? ????????? ????? ? ?????? ?????? ? ????????.

flag 80 ????????? ?? ??, ??? ??? ???????? ?????.

cyl, sector ? head ???? ??????????? ??? ???????? ????????? ? ????????? ??????? ?????? (???????, ?????? ? ??????? ???????-???????).

?????????: ??? ????? ?????????? ?????? ?? ????????? ?????, ??????????-??? BIOS, ? ???????? ? ?????????? ???????.

????? -i ? -u ????????? ????????? ?? ??, ??? ??????? ??????? ?????? ???? ????????. ???? ???? -f ?? ??? ??????, ?????? ? ???????? ????? ???????-???? ? ????????? ??????. ? ???? ?????? ??????? ????????? ?? ???? ????-???????? ?? ?????, ???? ?? ???? ?? ?????????? ?????.

??????? ??????? ?????? ????? ? ???????, ?????? ?? ?? ??? ??????????????. ? ?????? ?????????????? ??????, fdisk ????? ?????????????? ?????????? ?? ???? ? ????, ????????? ?????? ???????? ? ?????????? ?????. ????? ?? ????????? ???????????? ?????, fdisk ??????? ?????????? ? ??? ? ???????, ???????? ?? ?? ? ?????????? ??????????, ? ???? ????? ????? ??????????-???, ???????? ? ?????????? ??????.

????????? ????????? ???????? cyl, sector, ? head ?????? ??????, ??????? ?? ????????? ??? ?????????? ????????????. ??? ?? ?????, ??? ????????-????? ?? ?????? ?????? ?? ?????????????.

????? ????, ??? ??? ?????? ???? ??????????, ??? ????? ?????????? ???????? ``????????'' ?????. ???????, ????? ??? ????? ?????? ????? ???????, ???-???? ???????? ???????????? ?? ?????? ? ??????? ??????.

??????? ????? ??????? -u ? -i ?????????? ? ???, ??? -u ?????????? (?????????) ????????? ???????????? ???????, ????? ??? -i ???????????? ??? ?? ``?????????????'' (?????? ???????? ????????????). ???? ???????????? ?????? ?????, ?? -i ???????? ??? ???, ????? ?? ????????? ???? ????, ? ??????? ??? ????????.

?????????

??? ????????????? ?????????? ?????????? ????????, ??????? ? ?.?. ??????-?????? ????? ????????, ?????????? ????????? ????? ?? ?????? ?????? BIOS. ?? ????????? ??? ???????? ??????? ?? ????? ????? ? ???? (in-core disk label), ?? fdisk ???????????? ?????????? ???????? ??. ??? ????????? ??????? ?????????? ????, ??????? ????? ???????? ? ???????, ????????????? ?????????? ??????? ????? BIOS.

???????? ???? ??????? ?????????, ??? ?????? FreeBSD ?????????? ?? ???????
????????.

????????? ????????? ???????????? ?????? ? ??????? ??????????? ?????
???????? ? ?????? ??????, ?????????? ?? ???? ??????.

????? ????? ????????? ??? ????????? fdisk ? ???????????? ??????, ?????
?????????? ??? ?????????, ??????? ??? ??????????. ??? ????????? ???
???????, ??? ?? ???????? ??????????? ?? ????????? ??????, ``Should we
write new partition table?''. ??????? ??? ????????? ???????????, ????-
??? ??????? fdisk ????????????, ?? ??????? ?? ?????????? ???????? ? ????
???????? ???????????.

???? ???????????
??? ???????????? ????? -f ??????? ??????? ????? ????? ???? ???????? ?
??????? ????????, ????????? ? ????? ????_???????????. ?????? ?????
????? ????????? ?????: ?????? ?????? ???????? ???? ???????????, ????
????????????, ??? ???????? ????:

 # ?????????? ...
??????, ???????????? ? # ???????? ???????????? ? ????????????.

g spec1 spec2 spec3
?????? ????????? BIOS, ????????????? ??? ????????? ??????????
???????. ?????? ???? ??????? ??? ????????, ? ?????? ????? ??????
??????:

cnum ????????? ????? ????????? ?????? num.

hnum ????????? ????? ??????? ?????? num.

snum ????????? ????? ???????? ?? ??????? ?????? num.

???????? ????? ???? ??????? ? ????? ???????, ?.?. ?????? ?????
????????? ????????? ????? ???????? ??????? ?????. ??????, ?
????? ??????, ?????? ???? ??????? ??? ???.

??? ?????? ?????? ????????????? ???????, ???????? ?????????
???????.

???????? ????? ???? ? ????? ?????????:

1 <= ????? ?????????
1 <= ????? ??????? <= 256
1 <= ????? ???????? ?? ??????? < 64

????? ????????? ?????? ???? ?????? ???? ?????? 1024. ??? ??
?????? ???????????, ?? ???? ?? ??????? ?????, ??????? 1024, ?????
?????? ?????????????. ??????? ?????????, ??? ??????????? ??????
FreeBSD, ????????? ???????? (``/'') ???????? ???????, ??????
???????????? ? ?????? 1024 ?????????, ????? ????? ?????????
???????? c ?????????. ??? ??????????? ?? ???????????????? ?? ??-
??????????? ??????.

?????? ????????? ????? (??? ???????? ?????????) ? 1019 ?????-
?????, 39 ????????? ? 63 ????????? ?? ???????:

g c1019 h39 s63
g h39 c1019 s63

```
                g       s63     h39     c1019
```

p slice type start length

?????? ?????? ? ??????? slice (1-4) ??? type, ????????? ?????? start ? ?????? length ????????.

?????????? ??????????? ?????? ?? ??????, ????????? ??????? ?????? ?????? ????????, ????????? ?????? ???????? ???? ??????? ?????????. ??????, ???? ??????????? ??????? ??????? ????? ?????????? ??? ?? ????? ??????? ????? -i, ??? ??????????? ?????? ????? ??????? (???????? ??? ?????????????), ? ??? ???-????? ?????????? ????? ?????? ????????????? p ??????. ??? ??????? ?????????? ??? ?????????? ??????? ??????? ?????? ????????? ????? p, ?? ????? ?? ?????? ?????.

??? ?????? ?????? ????????? ?? ???????, ???????? ????????, ???? ????? ?????? ??????????? ? ?????.

??? FreeBSD ??????? ???????? type ????? 165. ???????? ???????? ???? ?????????? ???????? ?????? (???????? ??? ``unused''), ?????? ????? start ? length ? ???? ?????? ????? ?????? ???? ????????? ??????????? ????????, ????????, 0.

?????????: ??? ????????????, ????????? ???????? ????? ????????? ????? ?? ??????? ???????, ? ???????? ???????? - ???? ?? ??????? ????????.

??????: ????? ??????? 4-? ????? ? ??????? ??? ????????????? (``unused''):

```
      p       4       0       0       0
```

??????: ????? ?????????? 1-? ????? ??? ????? ??? FreeBSD, ??????-?????? ? 1-?? ??????? ???????? ? 2503871 ???????? (??? ???????? ????? ????????? ????? ? ???? ????? ???????, ????? ????? ??????? ?? ??????? ??????? ? ???????? ?????????????):

```
      p       1       165     1       2503871
```

a slice

??????? ????? slice ????????. ??? ?????? ????? ???????????? ? ????? ??? ??????, ?? ????? ???? ?????? ???? ????? ?????? ?? ???? ????.

??????: ????? ??????? ???????? 1-? ?????:

```
      a       1
```

?????

/boot/mbr ??? ?????????? ?? ?????????.

?????? ?????

boot0cfg(8), bsdlabel(8), newfs(8)

????????

??? ?????????? ?? ????????? ?? ?????? ????????? ?????????? ??? ???? ????-???, ? ????????? ??, ??????? ???? ??????? ??????? ? MS-DOS 6.x.

?????? ??????? ????? ?? ???? ????? ???????????? ????????????.

```
?????????? ???????? FreeBSD ?? ???????? ??????? ????? ``???????'' ?
``????????'', ??? ???????? ? ?????????.

? ??????? ???? ??????? ?????????? ?????? ???? ???? ??????? ??? ????????-
????? FreeBSD.  ??? ????? ????? ??????????? ??????? bsdlabel(8).
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Источник (получено *2026-10-31 19:03*):
http://muff.kiev.ua/content/fdisk-utilita-upravleniya-tablitsami-slaisov-zhestkogo-diska