

**NAME**

**ggatel** - GEOM Gate local control utility

**SYNOPSIS**

**ggatel create** [-v] [-o ro | wo | rw] [-s *sectorsize*] [-t *timeout*] [-u *unit*] *path*

**ggatel destroy** [-f] -u *unit*

**ggatel list** [-v] [-u *unit*]

**ggatel rescue** [-v] [-o ro | wo | rw] -u *unit path*

**DESCRIPTION**

The **ggatel** utility is a local GEOM Gate class consumer. It can be used as a replacement for md(4) devices or as a "GEOMificator" for non GEOM-aware devices, but it was mainly created as an example on how to use and how to communicate with the GEOM Gate kernel subsystem.

Available commands:

**create** Create a **ggate** provider related to the given regular file or device.

**destroy** Destroy the given **ggate** provider.

**list** List **ggate** providers.

**rescue** Take over a previously created provider and handle pending and future requests. This is useful if the initial **ggatel** process died. To prevent data loss, the given path must lead to the regular file or device that was used to create the provider.

Available options:

**-f** Forcibly destroy **ggate** provider (cancels all pending requests).

**-o ro | wo | rw** Specify permissions to use when opening the file or device: read-only (**ro**), write-only (**wo**), or read-write (**rw**). Default is **rw**.

**-s *sectorsize*** Sector size for **ggate** provider. If not specified, it is taken from the device, or set to 512 bytes for files.

**-t *timeout*** Number of seconds to wait before an I/O request will be canceled. 0 means no timeout. Default is 30.

**-u *unit*** Unit number to use.

**-v** Do not fork, run in foreground and print debug information on standard output.

*path* Path to a regular file or device.

## EXIT STATUS

Exit status is 0 on success, or 1 if the command fails. To get details about the failure, **ggatel** should be called with the **-v** option.

## EXAMPLES

"GEOMify" the "fd0" device and use gbde(8) to encrypt data on a floppy disk.

```
ggatel create -u 5 /dev/fd0
gbde init /dev/ggate5
gbde attach ggate5
newfs /dev/ggate5.bde
mount /dev/ggate5.bde /secret
cp /private/foo /secret/
umount /secret
gbde detach ggate5
ggatel destroy -u 5
```

## SEE ALSO

geom(4), gbde(8), ggatec(8), ggated(8), mount(8), newfs(8)

## HISTORY

The **ggatel** utility appeared in FreeBSD 5.3.

## AUTHORS

The **ggatel** utility as well as this manual page was written by Pawel Jakub Dawidek  
<[pjd@FreeBSD.org](mailto:pjd@FreeBSD.org)>.