

**NAME**

**gpioctl** - GPIO control utility

**SYNOPSIS**

```
gpioctl [-f ctldev] -l [-v]
gpioctl [-f ctldev] [-pN] -t pin
gpioctl [-f ctldev] [-pN] -c pin flag [flag ...]
gpioctl [-f ctldev] [-pN] -n pin pin-name
gpioctl [-f ctldev] [-pN] pin [0/1]
```

**DESCRIPTION**

The **gpioctl** utility could be used to manage GPIO pins from userland and list available pins.

The *pin* argument can either be a *pin-number* or a *pin-name*. If it is a number and a pin has this number as its name and you did not use **-N** or **-p**, then **gpioctl** exits.

The options are as follows:

**-c** *pin flag* [flag ...]

Configure pin by setting provided flags. The following flags are currently defined:

<b>IN</b>	Input pin
<b>OUT</b>	Output pin
<b>OD</b>	Open drain pin
<b>PP</b>	Push pull pin
<b>TS</b>	Tristate pin
<b>PU</b>	Pull-up pin
<b>PD</b>	Pull-down pin
<b>II</b>	Inverted input pin
<b>IO</b>	Inverted output pin

**-f** *ctldev* GPIO controller device to use If not specified, defaults to */dev/gpioc0*

- l** list available pins
- n *pin pin-name***  
set the name used to describe the pin
- t *pin*** toggle value of provided pin
- v** be verbose: for each listed pin print current configuration
- p** Force *pin* to be interpreted as a pin number
- N** Force *pin* to be interpreted as a pin name

## EXAMPLES

- List pins available on GPIO controller defined by device `/dev/gpioc0`  
  
`gpioctl -f /dev/gpioc0 -l`
- Set the value of pin 12 to 1  
  
`gpioctl -f /dev/gpioc0 12 1`
- Configure pin 12 to be input pin  
  
`gpioctl -f /dev/gpioc0 -c 12 IN`
- Set the name of pin 12 to test  
  
`gpioctl -f /dev/gpioc0 -n 12 test`
- Toggle the value the pin named test  
  
`gpioctl -f /dev/gpioc0 -t test`
- Toggle the value of pin number 12 even if another pin has the name 12  
  
`gpioctl -f /dev/gpioc0 -pt 12`

## SEE ALSO

`gpio(4)`, `gpioiic(4)`, `gpioled(4)`

**HISTORY**

The **gpioctl** utility appeared in FreeBSD 9.0.

**AUTHORS**

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