

```
$ qemu-system-{$ARCH} (...) -device ivshmem,shm=ivshmem,size=1
 guest machine:
 # insmod virtual_gpio_basic.ko
 # ls /sys/class/gpio/
 export
             gpiochip248 unexport
 # cat /sys/class/gpio/gpiochip248/label
 0000:00:0d.0
 # cat /sys/class/gpio/gpiochip248/base
 248
 # cat /sys/class/gpio/gpiochip248/ngpio
 32
 # echo 248 > /sys/class/gpio/export
 # echo high > /sys/class/gpio/gpio248/direction
 host machine:
 $ xxd -b -l 2 -c 2 /dev/shm/ivshmem
 0000000: 00000001 00000001 ...
 vg_get_set:
 $ ./vg_get_set -r 0
 main:222:: read 0=1
 $ ./vg_get_set -i 1
 main:239:: write 1=1
 guest machine:
 # cat gpio1/value
##WITH INTERRUPTS
 host machine:
 $ ivshmem-server -F -v -l 1M -n 1
 guest machine:
 # insmod virtual_gpio_basic.ko
 # echo 248 > /sys/class/gpio/export
```

```
# echo 249 > /sys/class/gpio/export
# echo 250 > /sys/class/gpio/export
# echo rising > /sys/class/gpio/gpio248/edge
# echo rising > /sys/class/gpio/gpio249/edge
# echo rising > /sys/class/gpio/gpio250/edge
# ./vg_guest_client 248
gpio_chip:
        base: 248
        ngpio: 32
Added gpio 248 to watchlist.
Added gpio 249 to watchlist.
Added gpio 250 to watchlist.
Entering loop with 3 gpios.
host machine:
$ ./vg_get_set -p 6 -i 0 # get -p (peer id) from ivshmem-client
main:346:: write 0=1
main:349:: interrupt was enabled for 0
main:353:: interrupt was raised for 0
main:357:: rising edge interrupt was enabled for 0 and new value is high 1
guest:
VGPIO: interrupt (status = 0x0001, pending = 1)
VGPIO: interrupt (status = 0x0001)
VGPIO: interrupt (status = 0x0001)
gpio number=248 interrupt caught
```

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