```
#include <linux/bitops.h>
```

```
#define BIT(nr) (1UL << (nr))</pre>
```

对某位置1

```
#define BIT_MASK(nr) (1UL << ((nr) % BITS_PER_LONG))</pre>
```

某位为0,其他位都为1

```
1.
2.
       * set_bit - Atomically set a bit in memory
       * @nr: the bit to set
3.
       * @addr: the address to start counting from
4.
5.
6.
      void set_bit(int nr, volatile unsigned long *addr)
8.
      /**
9.
10.
       * clear_bit - Clears a bit in memory
11.
       * @nr: Bit to clear
12.
       * @addr: Address to start counting from
13.
14.
15.
      void clear_bit(int nr, volatile unsigned long *addr)
```

```
1.    if (test_bit(PWMF_REQUESTED, &pwm->flags))
2.       return -EBUSY;
3.
4.    .....
5.    set_bit(PWMF_REQUESTED, &pwm->flags);
```

可以改为

```
dec_exp_register->cfg &= BIT_MASK(DEC_EXP_CFG_ENABLE_POS);
dec_exp_register->cfg |= BIT(DEC_EXP_CFG_ENABLE_POS);
```

```
clear_bit(DEC_EXP_CFG_ENABLE_POS, &dec_exp_register->cfg);
set_bit(DEC_EXP_CFG_ENABLE_POS, &dec_exp_register->cfg);
```