

#(1) 404410082 資工三 李宗樺

##(2)程式執行結果

```
[tsung@localhost ShareMemory]$ make
gcc hw1.c -o hw1
[tsung@localhost ShareMemory]$ ./hw1
segment ID: 524297
Key: 0
Mode: 384
Owner UID: 1000
Size: 128
Number of attachment: 0
[tsung@localhost ShareMemory]$
```

##(3)程式如何執行

1. 用shmget創造一個share memory
2. 用shmctl完成對share memory的控制
3. 按照題目需求印出來

##(4)其他說明，其他說明越詳細越好

1. shmget 參數

```
int shmget(key_t key, size_t size, int shmflg)
```

- key = 0 (IPC_PRIVATE) : will create a new share memory object
- size: size of share memory
- shmflg = IPC_CREATE|IPC_EXCL|600:如果不存在相同key，會新建一個新的share memory, 有則回報錯誤。600是權限 -> **一定要加上權限**

2. shmctl 參數

```
int shmctl(int shmid, int cmd, struct shmid_ds *buf)
```

- shmid: segment id (the return value of shmget)
- cmd = IPC_STAT: get the state of share memory, and store in buf
- buf: buffer

3. MODE = 384, 將它轉成二進位制是110,000,000也就是600也就是當初設的權限