

INUX OPERATING SYST

YANG

LINUX操作系统(双语)



- Review

Review.

1. 2具箱 { 3年版 mutex lock > 临界区管理 { 信号是 Semaphore >

2. Semaphore

おせばは: 和信号の限定有关

P: test (waiting) > 原は接供

V: increment

init value {=1 ⇔ 3年数

>1 ⇒ 可用资源数量。
=0 ⇒ 可考。(可机的图至是)

3. 同号问题 \ 生产了消费:卓强冲和卓强冲 \ =>实验据手。 【苹果和枯子:多种P和C,多种产品。

三、 风号闪起案例

1、读者-写希问起(Reader, Writer)

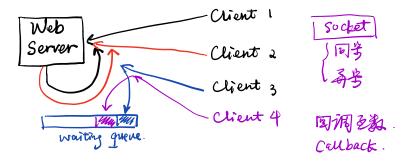
```
Readers File Writers 1. R和W: 黄子 3. R和R:共和国的
```

```
int Treader count = 0; //正在读文件的读者数量 > 所有读者共享
Semanhoro
    Semaphore T. mutex = 1;
                                      Writer-i {
Reder_i {
 °p< r_mutexi, €
                                          p(rw)
  reader count++;
 if (reader_count == 1) 1
      pcrw):V
                                         Write file
 V(r_mutus);
   Read File #
                                          VLrW)
 PCT_mutex)
  reader-court --;
  if ( reader_count == 0) {
       VLYW);
 V( 1/2 muters);
```

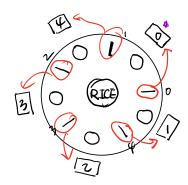
2. 獲岩仰问题.

```
Customer is leaving
         Semaphone <u>customer</u>=0, barber=1, mutex=1;
         int waiting = 0;
                                     Customer-i {
                                         PCMuter)
    Barberil
                                         if ( waiting < MAX_CHAIRS) {
                                            waiting ++;
       p(customer);
                                         V(muter)
       p(mutex)
                                            pcbarber)
       waiting--;
                                            V( customer)
       Vc mutex)
                                             get haircut
        cut hair?
                                        ) હાક્ષ્
                                           vcmutero)
       VC barbar);
                                        Leaving ....
```

·时座的计算机问题。



3. 哲学家就象问题。



beadlock. 死亡. 如始. Semaphore chopstick [5] = {1};

```
Philosopher_i{
While(1){

Thinking;//

P(chopstick[i]);

P(chopstick[iit]);

Fating;

V(chopstick[i]);

V(chopstick[i]);
```

The End