|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Max | | | Allocation | | | Need | | | Available | | |
| A | B | C | A | B | C | A | B | C | A | B | C |
| P1 | 5 | 5 | 9 | 2 | 1 | 2 | 3 | 4 | 7 | 2 | 3 | 3 |
| P2 | 5 | 3 | 6 | 4 | 0 | 2 | 1 | 3 | 4 |  |  |  |
| P3 | 4 | 0 | 11 | 4 | 0 | 5 | 0 | 0 | 6 |  |  |  |
| P4 | 4 | 2 | 5 | 2 | 0 | 4 | 2 | 2 | 1 |  |  |  |
| P5 | 4 | 2 | 4 | 3 | 1 | 4 | 1 | 1 | 0 |  |  |  |

1. T0时刻是安全状态，安全序列：P4 P1 P2 P3 P5
2. 按银行家算法进行检查

Request[2]=(0,3,4) ,need[2]=(1,3,4)

Request[2]<need[2]

Request[2]=(0,3,4) , available=(2,3,3)

Request[2]>available,不可分配

1. 按银行家算法进行检查

Request[4] = (2,0,1), need[4] = (2,2,1)

Request[4]<need[4]

Request[4]=(2,0,1) , available=(2,3,3)

Request[4]< available

可分配,系统更新：

Allocation[4] = (4,0,5),need[4] = (0,2,0),available = (0,3,2)

系统为安全状态，安全序列：P4 P2 P3 P5 P1

1. 在（3）的基础上

Request[1]=(0,2,0) , need[1]=(3,4,7)

Request[1]<need[1]

request1(0,2,0) < available(0,3,2)

Request[1]<available

可分配，系统更新

allocation1 = (2,3,2),need1 = (3,2,7),available = (0,1,2)

此时没有对应的安全序列，不分配