Operating System Project 6

潘梓丞 517030910349

The goal of the project is to simulate the banker's algorithm
The porject was done by VM VirtualBox 5.2.18
The code are written by C and the library needed will be
shown in code

idea

In order to simulate the process of the banker's algorithm, firstly define global variables Max, allocation, Need, available. Then we just do operations on these arrays. There's one thing left to do, check when a process is asking for resource, if the request can't be satisfied, report error condition. This project is simple and pretty easy to complete.

code

```
#Includectedia.ho
#Includected
```

```
int main(int args.char *argv[])

(int i, j;
tor (de):cargc.lish)

available[i]-atoi(argv[ii]);

FILE *in;
thur *temp;
thur *temp;
thur touch;
char task[20];
thur task[20];
the task[20];
touch task[20];
the task[20]
```

```
if(!strcmp("*",order)){
    printf("adilable:\n");
    for(!=0;iANMSER, OF,ESOURCES;!++)
        printf("\ad ",available!\n");
    for(!=0;iANMSER, OF,CUSTOMERS;!++){
        for(!=0;iANMSER, OF,CUSTOMERS;!++){
            printf("\ad ",max[i][j]);
        }
        printf("\allocation.\n");
        for(!=0;iANMSER, OF,CUSTOMERS;!++){
            for(!=0;iANMSER, OF,CUSTOMERS;!++){
                 for(!=0;iANMSER, OF,CUSTOMERS;!++){
                 printf("\ad ",allo[1][j]);
        }
        printf("\ad ",allo[1][j]);
    }
    printf("\n");
}

printf("ned:\n");
    for(!=0;iANMSER, OF,CUSTOMERS;!++){
            for(j=0;iANMSER, OF,ESCOURCES;]++){
                 printf("\ad ",max[i][j]-allo[i][j]);
            }
        printf("\n");
    }
}

if(!strcmp("exit",order)){
    printf("\n");
    break;
}
```