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第一讲 绪论
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```
#include <unistd.h>
#include <stdio.h>
                                                                             #include <stdio.h>
#include <stdlib.h>
#include <stdlib.h>
#include "common.h"
                                                                             #include "common.h"
int main(int argc, char *argv[])
                                                                             int main(int argc, char *argv[])
   if (argc != 2)
                                                                                if (argc != 2)
      fprintf(stderr, "usage: cpu < string > \n");\\
                                                                                    fprintf(stderr, "usage: mem <value>\n");
       exit(1);
                                                                                    exit(1);
   char *str = argv[1];
                                                                                int *p = (int*) malloc(sizeof(int));
                                                                                assert(p != NULL);

printf("(%d) addr pointed to by p: %p\n", (int)getpid(), p);

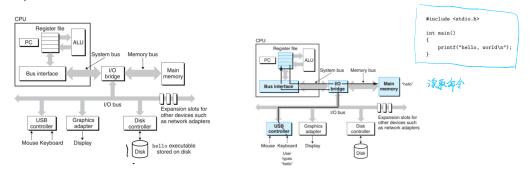
*p = atoi(argv[1]); // assign value to addr stored in p
   while (1)
      printf("%s\n", str);
      Spin(1);
                                                                                    \begin{aligned} & \text{Spin}(1); \\ & *p = *p + 1; \\ & \text{printf}("(\%d) \text{ value of p: } \%d\n", \text{ getpid(), } *p); \end{aligned} 
                                                                                return 0;
```

```
Why?
                  罗巴拉书刊软 双岬科岭村公司
 知识证什根式
  深入社解活动标准
                             相智能治(私,种)
  寄出
                             压症治
     05
       → API
                        → 多刚. 多%。
→ 放示(姊姊.同步
       → eB. 16/3
       力排剂
       →香傷
                        > M 14
       → $60/张为
       > 高点
 What?
         APP APP
   姓:
           (05)
           43 150
                      仲武 (分配)
   70水:
                      -范蠡咨析胜例 (虚拟化)
                      通用雕刻 (标准达0)
    1946: 習得為都利用
    通行指指:
            齿半肋.
             最晚混为.
```

#include <stdio.h> #include <stdlib.h> #include "common.h" #include "common_threads.h" pthread_mutex_t mymutex = PTHREAD_MUTEX_INITIALIZER; //volatile int counter = 0; int counter = 0; int loops; void *worker(void *arg) { int i; for (i = 0; i < loops; i++) { counter++; return NULL; int main(int argc, char *argv[]) { if (argc != 2) { $fprintf(stderr, "usage: threads < loops > \n");\\$ exit(1); loops = atoi(argv[1]); printed_tp1, p2; printf("Initial value : %d\n", counter); Pthread_create(&p1, NULL, worker, NULL); Pthread_create(&p2, NULL, worker, NULL); Pthread_join(p1, NULL); Pthread_join(p2, NULL); printf("Final value : %d\n", counter); return 0;

zxs@localhost chap1]\$./tt Initial value : 0 Final value : 2000 [zxs@localhost chap1]\$./t Initial value : 0 Final value : 2000 [zxs@localhost chap1]\$./t Initial value : 0 Final value : 2000 [zxs@localhost chap1]\$./t Initial value : 161394 [zxs@localhost chap1]\$./t Initial value : 161394 [zxs@localhost chap1]\$./t Initial value : 161394 [zxs@localhost chap1]\$./t

破件与张序



reads 1000

hreads 1000

hreads 1000

hreads 100000

hreads 100000

