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使用pthread_create()创建线程,并使原线程与新线程分别打印自己的线程id
#include <stdio.h>
#include <stdlib.h>
#include <pthread.h>
#include <unistd.h>
void *tfn(void *arg)
{
    printf("tfn--pid=%d,tid=%lu\n", getpid(), pthread_self());
    return (void*)0;
}
int main()
{
    pthread_t tid;
    printf("main--pid=%d,tid=%lu\n", getpid(), pthread_self());
    int ret = pthread_create(&tid, NULL, tfn, NULL);
    if (ret != 0){
         fprintf(stderr, "pthread_create error:%s\n", strerror(ret));
         exit(1);
    }
    sleep(1);
    return 0;
}
创建新线程,在新线程中修改原线程中定义在全局区的变量,并在原线程中打印该数据。
#include <stdio.h>
#include <pthread.h>
#include <stdlib.h>
#include <unistd.h>
int var = 100;
void *tfn(void *arg)
{
```

```
var = 200;
     printf("thread\n");
     return NULL;
}
int main(void)
{
     printf("At first var = %d\n", var);
     pthread_t tid;
     pthread_create(&tid, NULL, tfn, NULL);
     sleep(1);
     printf("after pthread_create, var = %d\n", var);
     return 0;
}
使用pthread_exit()退出线程,为线程设置退出状态,并将线程的退出状态输出。
#include <stdio.h>
#include <unistd.h>
#include <pthread.h>
#include <stdlib.h>
typedef struct{
     int a;
     int b;
} exit_t;
void *tfn(void *arg)
{
     exit_t *ret;
     ret = malloc(sizeof(exit_t));
     ret->a = 100;
     ret->b = 300;
     pthread_exit((void *)ret); //Ïß³ÌÖÕÖ¹
                                  //Ï̷߳µ»Ø
     return NULL;
}
int main(void)
{
     pthread t tid;
```

```
exit_t *retval;

pthread_create(&tid, NULL, tfn, NULL);

//µ÷ÓÃpthread_join¿ÉÒÔ»ñÈ¡Ï̵߳ÄÍ˳ö״̬

pthread_join(tid, (void **)&retval);

printf("a = %d, b = %d \n", retval->a, retval->b);

return 0;
}
```