

#1 Thread of Execution

(“return - How traditional... I’d like a language with comefrom”)

```
int f(int a) {  
    int b=a+1;  
    if(b>99) return 3;  
    return b;  
}
```

How does return ‘work’? i.e. How does the CPU know what to do next?

#2 Introduction to threads and pthreads

pthread_create

pthread_join

pthread_exit

#include <pthread.h>

```
int pthread_create(pthread_t *thread,  
    pthread_attr_t *attr,  
    void *(*start_routine) (void *),  
    void *arg);
```

```
int pthread_join(pthread_t thread, void **retval);
```

```
void pthread_exit(void *retval);
```

Compile and link with pthread

#3 My program calls pthread_create twice. How many stacks does my process have?

#4 What is the difference between a process and a thread?

#5 What does `pthread_cancel` do?
and are there alternatives?

#6 Differences between `exit()` and `pthread_exit()`?

...so why would you call `pthread_exit` in your main method?

#7 Give four ways that a thread can be terminated

#8 Hello World with pthreads?

#9 What happens if I call `pthread_create` 100 times?