Assignment Project Exam Help

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POSIX (Portable Operating System Interface) Threads

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- Implemented as a library on POSIX compliant Unix systems Albert 1984 / tutores.com
 - Since Kernel version 2.6, implemented in Linux as the Native POSIX Thread Library \Rightarrow 1-1 relationship between threads

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Provides APIs for creating and managing threads

Creation

#include <pthread.h>

int pthread_create (pthread) *thread, constrpthread_attr_t *attr, 1
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pthread_create (ID, Attributes, Function Pointer, Argument) https://tutorcs.com

- ullet ID ightarrow fb of newly created thread (set by the system)
- Attributes Generally set to NULL for default attributes

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 Function Pointer To the function which will be
- Function Pointer → Pointer to the function which will be executed by the newly created thread
- ullet Argument o Argument to the Function

Create and pass parameters (Example from CW)

Pass address of producerid so that we get id of thread created back

```
pthread_t producerid;
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(%producerid, NULL, producer,
(void *) %parameter);
```

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```
void *producer (void *parameter)
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int *param = (int *) parameter;

cout << "Parameter = " << *param << endl;

pthread_exit(0);
}</pre>
```

Create and pass parameters

How do we create multiple threads? A SEI GIRDLE HID HOUSE GREATED X AM HELP

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How do we pass multiple parameters?

Can use global variables

Hint: Vs/ngcluctheat.st/ceStalt/OTeCaStion and passing

the structure as a parameter is a more elegant solution

Exit from Thread

```
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void perference (void *retval)
pthread_exit (0);
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```

Wait for thread to finish and exit main programme

```
#include pthread hat: CStutorcs int pthread_join (pthread_t thread, void **retval) pthread_join (producerid, NULL);
```