## 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 POSIX POWCOGET.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>

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pthread\_create (ID, Attributes, Function Pointer, Argument)
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- ID  $\rightarrow$  ID of newly created thread (set by the system)
- Attributes Generally set to NULL for default attributes
- 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

```
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(kproducerid, NULL, producer, void *) kparameter);
```

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```
void *producer (void *parameter)
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cout << "Parameter = " << *param << endl;
pthread_exit(0);
}</pre>
```

#### Create and pass parameters

# How do we create multiple threads? A SEI GIAMONT HELD

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How do we pass multiple parameters?

Can use global variables

Hint: AidductWe Chat the Confessing

the structure as a parameter is a more elegant solution

Exit from Thread

```
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void pehread_exit (void *retval)

pthread_exit (0);

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```

Wait for thread to finish and exit main programme

```
#include and thread thread thread, void **retval) wheread join (pthread thread, void **retval) pthread join (producerid, NULL);
```