


Exercício II de Sistemas Operacionais II

Bruno Izaias Bonotto
Fabíola Maria Kretzer
João Vicente Souto

A dark blue diagonal gradient bar that starts from the bottom left corner and extends towards the top right corner, covering the lower half of the slide.

Class: *thread.h*

```
...
class Thread
{
    ...
    typedef Thread::Synchronized_Queue Queue

    ...
    void freedom();

    ...
    Synchronized_Queue _waiting_exit;
};
...
```

Class: *thread.cc*

```
...  
int Thread::join()  
{  
    ...  
    if (_state != FINISHING)  
    {  
        _waiting_exit.insert(&(_running->_sync_link));  
        _running->suspend();  
    }  
    ...  
}  
...
```

Class: *thread.cc*

```
...  
int Thread::exit(int status)  
{  
    lock();  
    ...  
    _running->freedom();  
  
    while (_ready.empty() && !_suspend.empty())  
        idle();  
  
    lock();
```

```
    if (!_ready.empty()) {...}  
    else if (reboot)  
    {  
        ...  
        Machine::reboot();  
    }  
    else  
    {  
        ...  
        CPU::halt();  
    }  
    unlock();  
}  
...
```

Class: *thread.cc*


```
...  
void Thread::freedom()  
{  
    while (!_running->waiting_exit.empty())  
    {  
        auto link = _running->_waiting_exit.remove();  
  
        if (link != 0)  
            link->object()->resume();  
    }  
}  
...
```

Class: *thread.cc*

```
...  
Thread::~~Thread()  
{  
    ...  
    if (_state != FINISHING)  
        freedom();  
    ...  
}  
...
```

Exercício II de Sistemas Operacionais II

Bruno Izaias Bonotto
Fabíola Maria Kretzer
João Vicente Souto

A dark blue diagonal gradient bar that starts from the bottom left corner and extends towards the top right corner, covering the lower half of the slide.