
Subject: : AmigaOS4

Topic: : Memory protection and tasks/processes

Re: Memory protection and tasks/processes

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URL:

And however the problem is not different tasks are trying to access the semaphore. Is the same task that is calling FreeSysObject on a VALID semaphore that is causing a DSI into kernel.

And for me a DSI in a system component is not so normal as you said. At least it should protected by bad code. I've also printed some test lines:

```
CLIB_CONSTRUCTOR: dirent_lock = 0x5e4b4160 - TASK = 0x5fdc5510
```

```
__dirent_lock = 0x5e4b4160 - TASK = 0x5fdc5510
```

```
__dirent_unlock = 0x5e4b4160 - TASK = 0x5fdc5510
```

```
__dirent_lock = 0x5e4b4160 - TASK = 0x5fdc5510
```

```
__dirent_unlock = 0x5e4b4160 - TASK = 0x5fdc5510
```

```
__dirent_lock = 0x5e4b4160 - TASK = 0x5fdc5510
```

```
__dirent_unlock = 0x5e4b4160 - TASK = 0x5fdc5510
```

```
__dirent_lock = 0x5e4b4160 - TASK = 0x5fdc5510
```

```
__dirent_unlock = 0x5e4b4160 - TASK = 0x5fdc5510
```

```
semaphore1 = 0x5b4acd20 - 0x5fdc5510
```

```
semaphore2 = 0x5b4acd20 - 0x5fdc5510
```

```
semaphore3 = 0x00000000 - 0x5fdc5510
```

```
semaphore1 = 0x5b4acd50 - 0x5fdc5510
```

```
semaphore2 = 0x5b4acd50 - 0x5fdc5510
```

```
semaphore3 = 0x00000000 - 0x5fdc5510
```

```
CLIB_DESTRUCTOR = 0x5e4b4160 - TASK = 0x5fdc5510
```

```
semaphore1 = 0x5e4b4160 - 0x5fdc5510
```

```
semaphore2 = 0x5e4b4160 - 0x5fdc5510
```

In the CLIB_CONSTRUCTOR is created the dirent lock and used without any problem (see lock/unlock) operations.

semaphore1/2/3 are taken from

```
void
```

```
__delete_semaphore(struct SignalSemaphore *semaphore)
```

```
{
```

```
    Printf("semaphore1 = %p - %pn", semaphore, FindTask(NULL));
```

```
    if (semaphore != NULL)
```

```
    {
```

```
Printf("semaphore2 = %p - %pn", semaphore, FindTask(NULL));  
FreeSysObject(ASOT_SEMAPHORE, semaphore);  
semaphore = NULL;  
Printf("semaphore3 = %p - %pn", semaphore, FindTask(NULL));  
}  
}
```

and so that function is workin correctly and as you can see the semaphore is set to NULL correctly.
in CLIB_DESTRUCTOR is called the same funcion that crash in FreeSysObject. And the Semaphore is not
locked so is not the problem.
So where is the problem?