

DragonFlyBSD - Bug #1528

ktrace does not show proper return values for pipe(2)

09/24/2009 08:58 AM - corecode

Status:	In Progress	Start date:	
Priority:	Normal	Due date:	
Assignee:	tuxillo	% Done:	0%
Category:	Kernel	Estimated time:	0.00 hour
Target version:	3.8.0		
Description			
When ktracing a pipe syscall, the output is:			
57705 a.out CALL pipe			
57705 a.out RET pipe 3			
However, the return value of pipe is 0, and the returned value for the file desc is {3, 4}.			

History

#1 - 10/30/2009 05:58 PM - Anonymous

I've added a kprintf in ktrsysret() and here is what printed:

```
1126 a.out CALL pipe
1126 a.out RET ret=3 error=0 code=42 pipe 3
```

Question is why `ret' contains the first file descriptor of the pair at all.
(and not zero as ought to)

Stathis

#2 - 10/30/2009 06:39 PM - corecode

Stathis Kamperis (via DragonFly issue tracker) wrote:

> Stathis Kamperis <ekamperi@gmail.com> added the comment:

>

> I've added a kprintf in ktrsysret() and here is what printed:

>

```
> 1126 a.out CALL pipe
> 1126 a.out RET ret=3 error=0 code=42 pipe 3
```

>

> Question is why `ret' contains the first file descriptor of the pair at all.
> (and not zero as ought to)

This is because sys_pipe returns both fds as return value, namely sysmsg_fds[0] and sysmsg_fds[1]. However ktrsysret is only called with sysmsg_result, which covers only the first fd.

I guess the pipe libc glue code copies this result into the array.

cheers
simon

#3 - 02/20/2014 07:32 AM - tuxillo

- Description updated

- Category set to Kernel

- Status changed from New to In Progress

- Assignee changed from 0 to tuxillo

- Target version set to 3.8.0

Grab.