

Antigen forwarded attachment

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/arch/2006-04/msg00062.html>

- *From:* Antigen_WEBMAIL@xxxxxxxxxxx
 - *Date:* 26 Apr 2006 08:26:02 -0700
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<<Entire Message.eml>>

--- Begin Message ---

- ◆ *From:* freebsd-arch-request@xxxxxxxxxxx
- ◆ *Date:* Fri, 21 Apr 2006 12:00:28 +0000 (UTC)

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When replying, please edit your Subject line so it is more specific
than "Re: Contents of freebsd-arch digest..."

Today's Topics:

1. Re: Add some more information in the ktrace(1)/kdump(1) output (David Kirchner)
2. Re: remove rid pointer (but not rid)... (M. Warner Losh)
3. Re: nawov news (Sylvana Edgecomb)

Message: 1

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Date: Thu, 20 Apr 2006 08:38:36 -0700
From: "David Kirchner" <dpk@xxxxxxx>
Subject: Re: Add some more information in the ktrace(1)/kdump(1)
output
To: "Peter Jeremy" <peterjeremy@xxxxxxxxxxxxxxxxxxxx>
Cc: arch@xxxxxxxxxxxx
Message-ID:
<35c231bf0604200838w224c810cue82beace0d63f18b@xxxxxxxxxxxxxxxxxxxx>
Content-Type: text/plain; charset=ISO-8859-1

On 4/20/06, Peter Jeremy <peterjeremy@xxxxxxxxxxxxxxxxxxxx> wrote:

Looks good. One improvement I'd suggest is to report both raw hex as well as decoded output – eg the way a printf(9) %b format looks. This would make the above look like:

```
32229 telnet CALL  
mmap(0,0x8000,0x3<PROT_READ|PROT_WRITE>,0x1002<MAP_PRIVATE|MAP_ANON>,0xffff  
32229 telnet CALL open(0x2807bc28,0<O_RDONLY>,<unused>0x1b6)  
32229 telnet CALL socket(PF_INET,SOCK_DGRAM,0)
```

Yeah, I could see a benefit to that. Easy to add.

more data in the dump output. I'm thinking, specifically, adding KTR_STAT for stat() results and KTR_SOCKADDR for connect(), bind() arguments, and accept() results.

Wonderful. IMHO, the lack of struct sockaddr decoding is the biggest drawback of ktrace (though I admit I've never been sufficiently annoyed at the lack of support to actually implement it).

Some comments on the code approach (these are personal opinions – feel free to ignore them):

– I find case statements easier to follow than very long "else if" clauses.

I do, too. I built on the existing if/else structure already there, but I wasn't sure of the best accepted style to use.

– Have you considered a semi-interpreted approach to allow more generalised decoding (less special-cased code)?

```
[..]  
/*004*/ { SYS_write , "write(dbd)d" , 3 , printargs_write , printret_write } ,
```

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The string contains the syscall name, the argument types in parenthesis (b – buffer, d – signed decimal, p – pointer, o – octal etc) and a return type, the number of arguments and functions to print the arguments and return values. (The return handling wouldn't be relevant to ktrace). About 3/4 of the Tru64 syscalls can be handled using the generic printargs_gen().

That does look great. I'll give it a shot. I was definitely getting concerned over the number of different functions inside each if(...SYS_foo){ } statement. It's easy to make a mistake there.

Since ktrace doesn't need special handling for syscalls that have I/O buffers or various structures (they are passed via different KTR_XXX records), FreeBSD is even more amenable to generic argument processing. I suspect that virtually all of the FreeBSD syscalls could be handled in a similar manner if a %b option string and an enum decoding structure (or two) could be passed via a similar sort of table.

Yeah. That sounds good. The original patch should probably not be committed then, since it'll just get changed again Real Soon Now(tm).

Message: 2

Date: Thu, 20 Apr 2006 10:40:48 -0600 (MDT)

From: "M. Warner Losh" <imp@xxxxxxxxxx>

Subject: Re: remove rid pointer (but not rid)...

To: phk@xxxxxxxxxxxxxxxx

Cc: arch@xxxxxxxxxx, gurney_j@xxxxxxxxxxxxxxxxxxxx

Message-ID: <20060420.104048.57443855.imp@xxxxxxxxxx>

Content-Type: Text/Plain; charset=us-ascii

In message: <3731.1145513558@xxxxxxxxxxxxxxxxxx>

"Poul-Henning Kamp" <phk@xxxxxxxxxxxxxxxx> writes:

: In message <20060419.165709.22017808.imp@xxxxxxxxxx>, "M. Warner Losh" writes:

:

: >This will, of course, be a big undertaking in the tree. There are
: >1216 instances of the string 'alloc_resource' Every single one of
: >them will need to change in some way.

:

: Most of them could beneficially change to use bus_alloc_resources(),
: thereby improving the code (there are far too many bugs in the error
: handling) and at the same time cutting the 1216 in half or further
: down.

Agreed. I think I made that point a little later in my post. The big difficulty here is testing the driver after the changes to make sure

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that no unintended bugs have been introduced.

Warner

Message: 3
Date: Thu, 20 Apr 2006 18:55:14 -0400
From: "Sylvana Edgecomb" <edgeci@xxxxxxxxxxx>
Subject: Re: nawov news
To: freebsd-arch@xxxxxxxxxxx
Message-ID: <000001c664cd\$7c8e4650\$5944a8c0@pow45>
Content-Type: text/plain; charset="us-ascii"

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Sincerely, Sylvana Edgecomb

Apzproval Manager

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End of freebsd-arch Digest, Vol 157, Issue 5

--- End Message ---

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