

Re: Dump debugging without "crash"

Source: <http://unix.derkeiler.com/Mailing-Lists/AIX-L/2005-05/0229.html>

From: Justin Bleistein (*justin.bleistein_at_TOWERSPERRIN.COM*)

Date: 05/26/05

Date: Thu, 26 May 2005 07:48:24 -0400
To: aix-l@Princeton.EDU

Yes, that will work. If you have the "/unix"/kernel file which was on the system when it crashed. All you have to do it restore it off of the "mksysb" to a different file name an invoke crash with the following: "crash core_lv_or_file_name /file_name". By default, if you enter crash without any kernel file specification it goes for: "/unix".

Some tips. When you start looking into the crash, do a; "stat" to see if it's valid. Then do a: "trace -m". This will give you the stack traceback.

The first/top function/sub-routine listed was the last one which was running when the system crashed. This should be the IAR call. Then take the number

in the parenthesis next to it/hex usually, and run: "le number". That should tell you what device driver/module/extension caused the crash.

Usually when

that's the cause, you do an: "lspp -w device_driver_filename" - usually "/usr/lib/drivers/file_name", and upgrade that fileset/lpp to the latest level. That's if

the crash was caused by a device driver.

Thanks.

—Justin Richard Bleistein
AIX Systems Administrator

"Green, Simon" <Simon.Green@EU.ALTRIA.COM>
Sent by: IBM AIX Discussion List <aix-l@Princeton.EDU>
05/26/2005 07:30 AM
Please respond to
IBM AIX Discussion List <aix-l@Princeton.EDU>

To
aix-l@Princeton.EDU
cc

Subject

Re: Dump debugging without "crash"

AIX-L: Re: Dump debugging without "crash"

Re: Dump debugging without "crash"

I tried kdb, and it's got the same problem as "crash".

If I knew enough about the AIX internals I guess I could just look at the raw data – I used to be able to do that for MVS systems, many moons ago – but I don't, so I can't.

I do still have a mksysb taken before I started work. Could I restore /unix from that (to some other name, of course!) then use that as input to the kdb command? e.g. kdb /dev/hd7 /old_unix

If I can find the time I might give that a try.

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Simon Green

Altria ITSC Europe s.a.r.l.

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N.B. Unsolicited email from vendors will not be appreciated.

Please post all follow-ups to the list.

-----Original Message-----

From: IBM AIX Discussion List [mailto:aix-l@Princeton.EDU] On Behalf Of Justin Bleistein

Sent: 26 May 2005 12:13

To: aix-l@Princeton.EDU

Subject: Re: Dump debugging without "crash"

Unfortunately, I don't think so. It needs the correct kernel file to resolve symbols and to have a consistent state of the system at the time of

the crash. If there is a way, I'd really like to know. I ran into that once before as well. Because of it I never knew the cause of a system crash.

Also, this may be worth it. "kdb" actually existed in some later levels of 4.3.3. Go ahead and try it on that. I highly doubt it though. NOTICE: This communication may contain confidential, proprietary or legally privileged information. It is intended only for the person(s) to whom it is addressed. If you are not an intended recipient, you may not use, read, retransmit, disseminate or take any action in reliance upon it. Please notify the sender that you have received it in error and immediately delete the entire communication, including any attachments. Towers Perrin does not encrypt and cannot ensure the confidentiality or integrity of external e-mail communications and, therefore, cannot be responsible for any unauthorized access, disclosure, use or tampering that may occur during transmission. This communication is not intended to create or modify any obligation, contract or warranty of Towers Perrin, unless the firm clearly expresses such an intent.

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