

freebsd-arch: Re: How to get stack from every thread when doing crash dump?

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Date: Thu, 23 Jun 2005 11:19:01 -0700

To: Xin LI <delphij@frontfree.net>

On Jun 23, 2005, at 3:20 AM, Xin LI wrote:

> *One problem with the mini-dump is that, since the mini-dump utilizes:*
> *dump_write((char *)curthread->td_kstack, curthread->td_kstack_pages *
> PAGE_SIZE);*
>
> *To write out the stack, and at the point before exception.S, curthread*
> *has*
> *been changed, we can only obtain the stack from the current thread,*
> *which*
> *may not be enough for analyzing the backtrace. What can we do to*
> *improve*
> *this situation?*

You can iterate over all the threads. Take a look at

src/sys/kern/subr_kdb.c

or

src/gnu/usr.bin/gdb/kgdb/kthr.c

In particular:

Use the list of all processes (allproc) to iterate over the processes and for each process walk the list of threads and for each thread dump the stack, registers and other data.

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