

Re: kldunload DIAGNOSTIC idea...

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/arch/2004-07/0078.html>

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Date: 07/20/04

Date: Tue, 20 Jul 2004 13:08:54 -0600

To: Brian Fundakowski Feldman <green@freebsd.org>

Brian Fundakowski Feldman wrote:

> *On Tue, Jul 20, 2004 at 08:20:23PM +0200, Poul-Henning Kamp wrote:*

>

>> *I'm pulling hair out trying to make it guaranteed safe to unload device*

>> *driver modules, and the major pain here is to make sure there is no*

>> *thread stuck somewhere inside the code.*

>>

>> *That gave me the idea for a simple little DIAGNOSTIC check for kldunload:*

>> *run through the proc/thread table and look for any thread with an*

>> *instruction counter inside the range of pages we are going to unload.*

>>

>> *Any takers ?*

>

>

> *You mean any thread with a stack trace that includes an instruction*

> *counter inside those pages, don't you?*

>

This is better than phk's suggestion since you can have module code that calls out to another part of the system and blocks. Still, it's not 100% perfect. There are all sorts of APIs out there that do async callbacks, and it really should be up to the driver to track these things.

Scott

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