

## Re: pcm0 freezes computer with recent -STABLE

**Source:** <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/stable/2003-09/0842.html>

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**From:** Keith Mitchell ([kmitch\\_at\\_guru.org](mailto:kmitch_at_guru.org))

**Date:** 09/30/03

Date: Tue, 30 Sep 2003 09:34:26 -0400

To: Jorge Aldana <[jorge@salk.edu](mailto:jorge@salk.edu)>

As I mentioned, Ian's fix for the USB problem also fixed the pcm0 hang for me. CVSupping should fix it (I rebuilt my kernel with just this fix and it started working). The actual commit that fixed this is:

iedowse 2003/09/28 04:08:31 PDT

FreeBSD src repository

Modified files: (Branch: RELENG\_4)

sys/kern kern\_fork.c

Log:

Save and restore the interrupt mask in fork1() instead of using spl0() and hence assuming that the old interrupt mask was zero. Although fork1() is normally called with a zero mask, one exception to this is when it is called by kthread\_create() before configure() has unmasked interrupts for the first time. In that case it can cause interrupt storm hangs during device configuration, because interrupts can be delivered before the corresponding device drivers are ready to receive them.

This should fix the boot-time USB hangs that have been reported.

Approved by: re (murray)

Revision Changes Path

1.72.2.15 +3 -3 src/sys/kern/kern\_fork.c

Jorge Aldana wrote:

>>From the previous posts and replies, one fix or workaround is to reassign your  
>soundcards IRQ and re-boot, it worked for me on the first reassignment, my code  
>also was from the 28th, code right after the 2nd Arp patch notice. If the cvsup  
>worked let us know.

>

>Here's some of the notes from the other thread:

>

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freebsd-stable: Re: pcm0 freezes computer with recent -STABLE

>  
>*From: Patrick C <patrick@filespanker.com>*  
>*Subject: Re: psm0 lockup on boot (FreeBSD 4.9 PreRelease #2)*  
>  
>  
>  
>>*I lost the previous thread on the psm0 lock but also wanted to report that*  
>>*after cvsup-ing for the arp patch and rebuilding that the lockup still*  
>>*occurs, any leads on a fix/workaround? (Besides removing psm0 or disabling*  
>>*the sound card).*  
>>  
>>  
>  
>*I had the same problem where my kernel would lock up until I changed the*  
>*soundcard PCI slot -- as well as my network card -- and assigned irqs to each*  
>*of those slots and my video card. This appears to be because of irq*  
>*conflicts. Here's what I found this in the LINT file:*  
>  
>*# Note: It has been reported that ISA DMA with the SoundBlaster will*  
>*lock up the machine (PR docs/5358). If this happens to you,*  
>*turning off USWC write posting in your machine's BIOS may fix*  
>*the problem.*  
>  
>-----  
>  
>*Jorge*  
>  
>

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Keith Mitchell  
Email: [kmitch@guru.org](mailto:kmitch@guru.org) PGP key available upon request

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