

Re: DANGER WILL ROBINSON! SERIOUS problem with current 5.4-PRERELEASE

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/stable/2005-03/0803.html>

From: Karl Denninger (karl_at_denninger.net)

Date: 03/30/05

Date: Tue, 29 Mar 2005 23:08:30 -0600

To: "Matthew N. Dodd" <mdodd@freebsd.org>

On Tue, Mar 29, 2005 at 11:40:48PM -0500, Matthew N. Dodd wrote:

> *On Tue, 29 Mar 2005, Karl Denninger wrote:*

>> *1.42: When resubmitting a timed out request, reset donecount.*

>> *1.41: Reset timeout when we are back from interrupt.*

>> *1.40: Correct logical error, result was that retries wasn't always made but*

>> *failure reported instead.*

>> *1.39: Do not retry on requests that have lost their device during reinit.*

>>

>> *This change is EXTREMELY DANGEROUS.*

>>

>> *This change needs to be backed out immediately until it can be determined*

>> *why a requeued request destabilizes the system.*

>

> *The changes in question are very small. Could you attempt to isolate*

> *which one is the cause?*

>

> *Thanks.*

Pretty sure its the requeue (e.g. 1.40 and 1.42); I attempted to put this patch in the system back before it was MFC'd (when it orginally showed up in -HEAD) and it failed in exactly the same way. The first time it created a LOT of head-scratching ("how come my serial board has suddenly gone deaf?!") and it wasn't until it got to where the console wouldn't respond that the light went on and I said "oh, so THAT's what that patch really does!" :->

That got backed out FAST :-)

I believe the previous version of that file in -STABLE was 1.38 - that has the 'errors don't actually get retried' problem that results in immediate detaches - the reason for the update was that I noted the commit and figured that the problem from my last attempt with including this had either been fixed or I had missed some dependancy in my earlier attempt.

I have an open PR on the underlying problem (SATA drives on a number of common configurations returning false errors and detaching when part of a

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geom mirror) which I've marked as "serious". Its at
<http://www.freebsd.org/cgi/query-pr.cgi?pr=77643>

There is a comment attached to the PR from another user who has duplicated the underlying problem.

Note that back on 3/2/05 I attempted to apply the 1.42 version of this file to -STABLE and got the same failure, and added that fact to the PR. I also reported it here. It appears that both reports were either missed or ignored and this change was committed to -RELENG_5.

I'm not sure if I can cobble up a test machine with the right configuration of hardware to go through each of the above changes in turn to see if I can isolate which of the three it is, but I'll give it a shot over the next couple of days. I'm 1 SATA disk short of what I need to do this in my sandbox.

If I do not trigger the requeue all appears to be fine.

This is one that IMHO has to either be found and fixed or backed out for the impending -RELEASE.

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