

Re: HEADSUP: UMA not reentrant / possible memory leak

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/current/2003-07/1785.html>

From: Bosko Milekic (bmilekic_at_technokratis.com)

Date: 07/30/03

Date: Tue, 29 Jul 2003 22:19:28 +0000

To: Tor.Egge@cvsup.no.frebsd.org

On Wed, Jul 30, 2003 at 01:23:21AM +0000, Tor.Egge@cvsup.no.frebsd.org wrote:

> > *The indication of this is that the g_bio zone does not return to*
> > *zero USED as it should.*
>
> *It looks like z->uz_cachefree is slightly out of date (updated in*
> *zone_timeout() every 20th second) and often too low (not taking the*
> *z->uz_full_bucket list into account).*
>
> *The enclosed patch recalculates the number of free elements on the*
> *buckets instead of using z->uz_cachefree.*
>
> - *Tor Egge*
>

We took this into account when we did the comparison. We know that uz_cachefree is only a snapshot count; but Poul-Henning's patch clearly illustrates a frequent fluctuation in the free zone value but where the actual number of allocated g_bio zone elements stays stable at 0, for example.

The fact that the problem is solved when buckets are disabled also is indicative that there is a clear reentrancy problems somewhere.

There may also be some bucket leakage (although I have not yet confirmed this) as well.

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