

[PATCH] gfs2: add error handling for kmem_cache_zalloc Zhouyang Jia <jiazhouyang09@gmail.com> Cc: Zhouyang Jia <jiazhouyang09@gmail.com>, Bob Peterson <rpeterso@redhat.com>, Andreas Gruenbacher <agruenba@redhat.com>, cluster-devel@redhat.com, linux-kernel@vger.kernel.org Mon, Jun 11, 2018 at 11:38 PM When kmem_cache_zalloc fails, the lack of error-handling code may cause unexpected results. This patch adds error-handling code after calling kmem_cache_zalloc. Signed-off-by: Zhouyang Jia <jiazhouyang09@gmail.com fs/gfs2/trans.c | 3 +++ 1 file changed, 3 insertions(+) diff --git a/fs/gfs2/trans.c b/fs/gfs2/trans.c index 064c9a0..da81eb4 100644 Index Overceau..gas rebet 100044 --- aflsgfgs2frans.c +++ bffsgfs2frans.c @@ -130,6+130,9 @@ static struct gfs2_bufdata *gfs2_alloc_bufdata(struct gfs2_glock *gl, struct gfs2_bufdata *bd; bd = kmem_cache_zalloc(gfs2_bufdata_cachep, GFP_NOFS | __GFP_NOFAIL); if (lbd) return NULL; bd->bd_bh = bh; bd->bd_gl = gl; bd->bd_ops = lops; 274 cgxu519@gmx.com <cgxu519@gmx.com> To: Zhouyang ila <jaa-buoyang09@gmali.com> Co: "cgxu519@gmx.com" <cggreenbacher <agruenbacher Tue, Jun 12, 2018 at 3:24 AM > 在 2018年6月12日,上午11:38,Zhouyang Jia <jiazhouyang09@gmail.com> 写道: > When kmem_cache_zalloc fails, the lack of error-handling code may > cause unexpected results. > This patch adds error-handling code after calling kmem_cache_zalloc Should not fail on this case Thanks, Chengguang. [Quoted text hidde Andreas Gruenbacher <agruenba@redhat.com> To: 'cgwu519@gmx.com' <cgyu519@gmx.com' <agruence of the come of the com Tue, Jun 12, 2018 at 4:23 AM On 12 June 2018 at 09:24, cgxu519@gmx.com <cgxu519@gmx.com> wrote: >> 在 2018年6月12日,上午11:38,Zhouyang Jia <jiazhouyang09@gmail.com> 写道: >> When kmem_cache_zalloc fails, the lack of error-handling code may >> cause unexpected results. >> >> This patch adds error-handling code after calling kmem_cache_zalloc. > Should not fail on this case. Indeed, with the __GFP_NOFAIL flag, kmem_cache_zalloc will not fail. This is documented in include/linux/gfp.h. Steven Whitehouse <swhiteho@redhat.com> To: "cgxu519@gmx.com" <cgxu519@gmx.com>, Zhouyang Jia <jiazhouyang09@gmail.com> Cc: cluster-devel@redhat.com, linux-kernel@vger.kernel.org Tue, Jun 12, 2018 at 8:18 AM Hi, On 12/06/18 08:24, cgxu519@gmx.com wrote: 在 2018年6月12日,上午11:38,Zhouyang Jia <jiazhouyang09@gmail.com> 写道: When kmem_cache_zalloc fails, the lack of error-handling code may cause unexpected results. This patch adds error-handling code after calling kmem_cache_zalloc. Should not fail on this case.

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Indeed, It is one of the few GFP_NOFAIL allocations left in GFS2. It would be good to figure out how to remove the last few of these allocations, but simply adding a check for a NULL return is not the right solution here anyway. I would also add that if this problem was easier then I'm sure we'd have solved it before - the right answer is not very obvious in this case,