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Subject: Re: [lxc-dev] [BUG][cryo]: underflow in semundo\_release() ?

Posted by [serue](#) on Fri, 13 Jun 2008 14:36:32 GMT

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Quoting [sukadev@us.ibm.com](mailto:sukadev@us.ibm.com) ([sukadev@us.ibm.com](mailto:sukadev@us.ibm.com)):

> Serge E. Hallyn [[serue@us.ibm.com](mailto:serue@us.ibm.com)] wrote:

> | Quoting [sukadev@us.ibm.com](mailto:sukadev@us.ibm.com) ([sukadev@us.ibm.com](mailto:sukadev@us.ibm.com)):

> | > Serge E. Hallyn [[serue@us.ibm.com](mailto:serue@us.ibm.com)] wrote:

> | > | > The last few messages on stdout of the restart are:

> | > | >

> | > | > DEBUG (cr.c::1141) next memseg\_t is: start bfe5c000 end bfe71000 prot 3 flag 50 offset 3221139456 fnam [stack]

> | > | > DEBUG (cr.c::1187) Delete segment bfa35000 - bfa4a000

> | > | > DEBUG (cr.c::1189) Restore segment bfe5c000 - bfe71000

> | > |

> | > | The stack segments are not the same. How can that be? Did you turn off

> | > | stack randomization?

> | > |

> | > | Grr, I did not. After I randomized, it seems to work on -lxc4 as well.

> | > |

> | > | Rather than warn, can we have cryo fail if stack is not randomized ?

> | > | (its almost sure to fail anyway).

> | > |

> | > | I guess we may as well, because I guess the error message shows up at

> | > | the top of a long list of output so you'll never see it.

> | > |

> | > | Will change it.

> | > |

> | > | I run into this bug (twice so far) even with randomize\_va\_space set to 0.

> | > |

> | > | I run the attached pipe2.c program, ckpt and restart. The restart started

> | > | out fine (printed "i is 10") then I hit CTRL-C.

> | > |

> | > | Last commit in my git tree:

> | > |

> | > | commit 84d005031a8a17bdca62dc541c296a3bea74658c

> | > | (which adds 'exit(1)' to Dave's following commit)

> | > | 96bb0ed3351c2e4268dade4416e1acbff7dab152

> | > |

> | > | qemu login: BUG: atomic counter underflow at:

> | > |

> | > | BUG: atomic counter underflow at:

> | > | Pid: 2252, comm: pipe2 Not tainted 2.6.26-rc2-mm1-lxc4 #2

> | > | Pid: 2252, comm: pipe2 Not tainted 2.6.26-rc2-mm1-lxc4 #2

> | > | [

> | > | semundo\_release+0x28/0x4a

> | > | [

> | > | \_\_fput+0x93/0x13b

```

> [<c0151827>] [<c0151827>] fput+0x2d/0x32
> fput+0x2d/0x32
> [<c014f044>] [<c014f044>] filp_close+0x50/0x5a
> filp_close+0x50/0x5a
> [<c01146e0>] [<c01146e0>] put_files_struct+0x7c/0xbe
> put_files_struct+0x7c/0xbe
> [<c0114759>] [<c0114759>] exit_files+0x37/0x3c
> exit_files+0x37/0x3c
> [<c01156ec>] [<c01156ec>] do_exit+0x1e4/0x589
> do_exit+0x1e4/0x589
> [<c0115aef>] [<c0115aef>] do_group_exit+0x5e/0x86
> do_group_exit+0x5e/0x86
> [<c011d126>] [<c011d126>] get_signal_to_deliver+0x2e0/0x31e
> get_signal_to_deliver+0x2e0/0x31e
> [<c0102215>] [<c0102215>] do_notify_resume+0x91/0x6dd
> do_notify_resume+0x91/0x6dd
> [<c0126d31>] [<c0126d31>] ? ? getnstimeofday+0x37/0xb7
> getnstimeofday+0x37/0xb7
> [<c01f63a8>] [<c01f63a8>] ? ? copy_to_user+0x2a/0x36
> copy_to_user+0x2a/0x36
> [<c012490d>] [<c012490d>] ? ? update_rmtmp+0x49/0x5b
> update_rmtmp+0x49/0x5b
> [<c0124d0d>] [<c0124d0d>] ? ? hrtimer_nanosleep+0x57/0x95
> hrtimer_nanosleep+0x57/0x95
> [<c012491f>] [<c012491f>] ? ? hrtimer_wakeup+0x0/0x1c
> hrtimer_wakeup+0x0/0x1c
> [<c0124d8d>] [<c0124d8d>] ? ? sys_nanosleep+0x42/0x53
> sys_nanosleep+0x42/0x53
> [<c0102c16>] [<c0102c16>] work_notifysig+0x13/0x19
> work_notifysig+0x13/0x19
> [<c02f0000>] [<c02f0000>] ? ? serial_pci_guess_board+0xb0/0x141
> serial_pci_guess_board+0xb0/0x141

```

Suka,

yeah I get this with that kernel too (though mine looks very different). But I don't with a more recent -mm. Certainly seems like either a exit-vs-signal or exit-vs-semundo bug. So there are three possibilities:

1. it was a -mm bug which Oleg squashed - in which case it's fixed.
2. it was a semundo bug which Manfred fixed with his recent semundo rcu-ification
2. it was a Pierre bug with the semundo-rcu for c/r. In which case, Nadia is having to rework that set anyway on top of Manfred's patch. So let's make sure to do this test when Kathy releases the next -lxc with Nadia's new version of

the semundo-rcu patchset.

thanks,  
-serge

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Containers mailing list  
Containers@lists.linux-foundation.org  
<https://lists.linux-foundation.org/mailman/listinfo/containers>

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