

Lasso - Bug #86472

Segmentation fault inside test suite

01 février 2024 20:17 - Martin Schreiner

Statut:	Résolu (à déployer)	Début:	26 janvier 2024
Priorité:	Normal	Echéance:	
Assigné à:	Benjamin Dauvergne	% réalisé:	0%
Catégorie:		Temps estimé:	0:00 heure
Version cible:		Planning:	Non
Patch proposed:	Oui		

Description

Hello,

On some systems, such as SUSE Linux Enterprise 15 SP5, we're seeing that **lasso-2.6.1** and **lasso-2.8.2** fail to build, as its **test suite hits a segmentation fault** .  
Through careful analysis, we've discovered the exact instruction that triggers the segfault.

0x7ffff7c84b00 <xmlDictOwns>; test %rsi,%rsi

0x7ffff7c84b03 <xmlDictOwns+3>; sete %cl

0x7ffff7c84b06 <xmlDictOwns+6>; test %rdi,%rdi

0x7ffff7c84b09 <xmlDictOwns+9>; je 0x7ffff7c84b4e <xmlDictOwns+78>;

0x7ffff7c84b0b <xmlDictOwns+11>; test %cl,%cl

0x7ffff7c84b0d <xmlDictOwns+13>; jne 0x7ffff7c84b4e <xmlDictOwns+78>;

--> 0x7ffff7c84b0f <xmlDictOwns+15>; mov 0x20(%rdi),%rax

0x7ffff7c84b13 <xmlDictOwns+19>; test %rax,%rax

0x7ffff7c84b16 <xmlDictOwns+22>; je 0x7ffff7c84b37 <xmlDictOwns+55>;

0x7ffff7c84b18 <xmlDictOwns+24>; nopl 0x0(%rax,%rax,1)

0x7ffff7c84b20 <xmlDictOwns+32>; lea 0x28(%rax),%rdx

0x7ffff7c84b24 <xmlDictOwns+36>; cmp %rdx,%rsi

0x7ffff7c84b27 <xmlDictOwns+39>; jb 0x7ffff7c84b2f <xmlDictOwns+47>;

0x7ffff7c84b29 <xmlDictOwns+41>; cmp %rsi,0x8(%rax)

0x7ffff7c84b2d <xmlDictOwns+45>; jae 0x7ffff7c84b48 <xmlDictOwns+72>;

This happens when running the following test: **test16\_test\_get\_issuer\_fn (basic\_tests.c:1019)** .

This test contains a loop, and it doesn't happen the first time the instruction is executed. It takes over 30 thousand attempts, but then it always causes a segfault.  
Various other tests, typically login-related ones, also trigger this issue.

On SLE 15 SP5 specifically, we're using libxml2 version 2.10.3.

I'm including a patch we've written that seems to mitigate the issue, hopefully you can have a look and see how it might mitigate this problem, and maybe other people are also being affected.

We have a build of lasso-2.8.2 running here, with the patch:  
<https://build.opensuse.org/package/show/home:pgajdos/lasso>

Thanks.

Révisions associées

Révision 534d2b96 - 01 février 2024 21:50 - Benjamin Dauvergne

Do not free xmlDoc before unlinking its tree (#86472)

Historique

#1 - 01 février 2024 21:50 - Benjamin Dauvergne

- Assigné à mis à Benjamin Dauvergne

#2 - 01 février 2024 21:54 - Benjamin Dauvergne

- Statut changé de Nouveau à Résolu (à déployer)

commit 534d2b96985714598d58b2da947d5813efe1e67c  
Author: Benjamin Dauvergne <bdauvergne@entrouvert.com>  
Date: Thu Feb 1 21:50:21 2024 +0100

Do not free xmlDoc before unlinking its tree (#86472)

#3 - 01 février 2024 21:54 - Benjamin Dauvergne

- Catégorie Tests supprimé

It's fixed in main, thanks for the report.

#4 - 01 février 2024 23:08 - Martin Schreiner

Do you think it'd be possible to backport a patch, fix it for 2.6.X as well?  
I mean, if that commit applies cleanly for 2.6.X, should it be good to go?

I want to fix this for SLE 15 SP5.

Thank you very much!

#5 - 02 février 2024 00:26 - Benjamin Dauvergne

Martin Schreiner a écrit :

Do you think it'd be possible to backport a patch, fix it for 2.6.X as well?  
I mean, if that commit applies cleanly for 2.6.X, should it be good to go?

Sorry but we do not manage backports upstream, we provide fixes only in the latest version.

Fichiers

lasso.patch	461 octets	01 février 2024	Martin Schreiner
-------------	------------	-----------------	------------------