

cpan-authors / XML-Parser Publicforked from [chorny/XML-Parser](#)[Code](#) [Issues](#) [Pull requests](#) [Actions](#) [Projects](#) [Security and quality](#)

New issue



XML::Parser::Expat crashes on utf8 stream [rt.cpan.org #19859] #64

Closed

#109

Labels

Has Patch



todd opened on Sep 24, 2019

Member

Migrated from [rt.cpan.org#19859](#) (status was 'open')

Requestors:

- rantwijk@science.uva.nl

Attachments:

- [XML-Parser-2.34-unicodcrash.patch](#)

From on 2006-06-13 08:49:30

:

```
I encountered a UTF-8 related bug in the Expat library wrapper.  
The symptom of this bug is a Perl interpreter crash with the following  
error message:  
*** glibc detected *** double free or corruption (!prev): 0x081e2c00 ***
```



```
This error is caused by heap corruption from a buffer overflow in  
Expat.xs, line 388:  
Copy(tb, buffer, br, char)
```

```
This buffer overflow happens because the code assumes that the number of  
bytes copied (br) will never exceed the number of characters read from  
the input (buffsize). This assumption is invalid if the input stream is  
in utf8 mode.
```

```
The best solution is to have the Perl programmer set the stream to raw
```

mode, since this is also what libexpat expects. I think however, that the internal buffer overflow should be fixed anyway. The encoding issues could also be documented more clearly.

Sample program which triggers the bug on certain input files:

```
---
use strict;
use encoding 'utf8';
use XML::Parser;
# (if i uncomment this, the bug disappears) binmode(STDIN, ':bytes');
my $parser = XML::Parser->new( Style => 'Debug' );
$parser->parse(\*STDIN);
---
```

If the package maintainer agrees that this bug should be fixed, I am willing to provide a patch and do some testing. Just let me know if this is appreciated.

Package: XML-Parser-2.34
Perl version: v5.8.5 built for i386-linux-thread-multi
OS: Fedora Core release 3

Bye,
Joris.

From atourbin@cpan.org on 2006-08-11 00:46:06

:

> If the package maintainer agrees that this bug should be fixed, I am
> willing to provide a patch and do some testing. Just let me know if
this
> is appreciated.



It looks like XML::Parser is unmaintained for quite some time, which is contrary to its wide-spread use. The patch for the problem you've reported can be appreciated not only by maintainer, but also by software vendors and ultimately by perl developers and users. So... If you have a patch, please post it here.

--
Alexey Tourbin
ALT Linux Team

PS: I filed a few bugs on XML::Parser too, e.g. #11917 and #13204.

From rantwijk@science.uva.nl on 2006-08-11 05:54:29

:

On Thu, 2006-08-10 at 20:47 -0400, via RT wrote:

> It looks like XML::Parser is unmaintained for quite some time, which
> is contrary to its wide-spread use. The patch for the problem you've
> reported can be appreciated not only by maintainer, but also by
> software vendors and ultimately by perl developers and users. So...
> If you have a patch, please post it here.

I have a patch that seems to work (attached to this message).
This patch has also been posted to the Debian bug tracking system:
<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=378411>

The patch only fixes the overflow condition. The issue remains that
Expat expects its input to be raw (encoded) bytes, while the Perl
programmer may accidentally pass it a decoded stream. This will lead to
double decoding and incorrect XML parsing (except when the encoding was
utf8, because Perl happens to use utf8 internally for unicode strings).

Perhaps we should say in the Expat.pm documentation that input streams
must be set to ':raw' mode.

Joris.



toddr added **Has Patch** on Sep 24, 2019

toddr-bot added a commit that references this issue on Mar 16

Fix buffer overflow in parse_stream when filehandle has :utf8 layer

5361c2b

toddr-bot mentioned this on Mar 16

[fix: buffer overflow in parse_stream on utf8 filehandle #109](#)


toddr closed this as completed in [#109](#) on Mar 16



hartwork on Mar 19

This seems to be [CVE-2006-10002](#)

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LEEKIYOON-SEC mentioned this on Mar 19

 [\[Argus\] CVE-2006-10002: Perl의 XML::Parser 2.47 버전 이하에서 힙 손상 및 충돌 가능성](#)
[LEEKIYOON-SEC/Argus-AI-Threat-Intelligence#461](#)

  **sni** added a commit that references this issue [3 weeks ago](#)

perl-modules: update XML::Parser 

925bb8d

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Metadata

Assignees

No one assigned

Labels

Has Patch

Type

No type

Projects

No projects


Milestone

No milestone

Relationships

None yet

Development

 [fix: buffer overflow in parse_stream on utf8 filehandle](#)
cpan-authors/XML-Parser

 **2.54**

Participants



