

openQA Project - action #90371

Warnings "Subroutine JSON::PP::Boolean::(0+ redefined"

2021-03-19 16:38 - tinita

Status:	Resolved	Start date:	2021-03-19
Priority:	Normal	Due date:	
Assignee:	tinita	% Done:	0%
Category:	Concrete Bugs	Estimated time:	0.00 hour
Target version:	Ready		
Difficulty:			
Description			
Currently the openQA fullstack tests show these warnings:			
<pre>Subroutine JSON::PP::Boolean::(0+ redefined at /usr/lib/perl5/5.26.1/overload.pm line 48. Subroutine JSON::PP::Boolean::(++ redefined at /usr/lib/perl5/5.26.1/overload.pm line 48. Subroutine JSON::PP::Boolean::(++ redefined at /usr/lib/perl5/5.26.1/overload.pm line 48. Subroutine JSON::PP::Boolean::(0+ redefined at /usr/lib/perl5/5.26.1/overload.pm line 48. Subroutine JSON::PP::Boolean::(-- redefined at /usr/lib/perl5/5.26.1/overload.pm line 48.</pre>			
https://app.circleci.com/pipelines/github/os-autoinst/openQA/5998/workflows/94c76040-f055-4899-8372-bd5d3f416a50/jobs/56590 https://app.circleci.com/pipelines/github/os-autoinst/openQA/5998/workflows/94c76040-f055-4899-8372-bd5d3f416a50/jobs/56591			
The reason seems to be that Cpanel::JSON::XS creates the JSON::PP::Boolean namespace and overloads without using the module. Then when JSON::PP is used, perl sees that the overloads have already been defined. https://github.com/rurban/Cpanel-JSON-XS/issues/65			
<pre>perl -wE 'use Cpanel::JSON::XS (); use JSON::PP ()'</pre> <pre>Subroutine JSON::PP::Boolean::(++ redefined at /usr/lib/perl5/5.26.1/overload.pm line 48. Subroutine JSON::PP::Boolean::(0+ redefined at /usr/lib/perl5/5.26.1/overload.pm line 48. Subroutine JSON::PP::Boolean::(-- redefined at /usr/lib/perl5/5.26.1/overload.pm line 48.</pre>			
The reason in our case seems to be the following:			
<ul style="list-style-type: none">• It only happens with Devel::Cover• Devel::Cover uses JSON::MaybeXS (which then uses Cpanel::JSON::XS)• Some other code in our code base or in CPAN modules used by us is using JSON::PP			
Related issues:			
Related to openQA Project - action #72082: Reduce test runtime, e.g. less rel...		Resolved	2020-09-18
Related to openQA Tests - action #38264: os-autoinst-distri-opensuse self-tes...		Resolved	2018-07-06
Related to openQA Project - action #29048: perl warning about "Subroutine JSO...		Resolved	2017-12-07

History

#1 - 2021-03-19 16:39 - tinita

- Related to action #72082: Reduce test runtime, e.g. less reliance on test fixtures or test database instances added

#2 - 2021-03-19 16:39 - tinita

- Related to action #38264: os-autoinst-distri-opensuse self-tests fail in travis CI with "Subroutine JSON::PP::Boolean::(0+ redefined" but not locally added

#3 - 2021-03-19 16:39 - tinita

- Related to action #29048: perl warning about "Subroutine JSON::PP::Boolean::(0+ redefined" on manual startup of openqa-scheduler added

#4 - 2021-03-19 16:44 - tinita

A quick "fix" can be to use JSON::PP before everything else in the Makefile when using Devel::Cover:

```
COVEROPT += -MJSON::PP -MDevel::Cover--select_re
```

The fact that these warnings only appear in fullstack tests suggest, that in os-autoinst code we are using JSON::PP somewhere (directly or indirectly

via CPAN modules) *after* Devel::Cover loads Cpanel::JSON::XS, and in openQA we either never use JSON::PP, or it is used before Devel::Cover loads Cpanel::JSON::XS. I don't know yet at which point Devel::Cover loads the module.

The warning is harmless, but annoying and distracting from potentially less harmless warnings.

#5 - 2021-03-19 16:49 - tinita

Another question would be why Test::Warnings doesn't catch that. No idea so far.

#6 - 2021-03-19 17:01 - cdywan

tinita wrote:

A quick "fix" can be to use JSON::PP before everything else in the Makefile when using Devel::Cover:

```
export PERL5OPT="-MJJSON::PP -MDevel::Cover...
```

Assuming we only need this when we collect coverage, COVEROPT could be used (this gets added to PERL5OPT then), which is where we add Cover as well.

#7 - 2021-03-19 18:43 - tinita

yeah, I actually meant COVEROPT, this was a copy&paste mistake.

#8 - 2021-03-19 18:44 - tinita

- Status changed from *New* to *In Progress*
- Assignee set to *tinita*
- Target version changed from *future* to *Ready*

#9 - 2021-03-19 21:03 - tinita

<https://github.com/os-autoinst/openQA/pull/3808>

#10 - 2021-03-19 21:04 - tinita

- Status changed from *In Progress* to *Feedback*

#11 - 2021-03-30 10:08 - tinita

- Status changed from *Feedback* to *Resolved*

PR was merged