

Ruby - Misc #20156

C99 updates

01/05/2024 11:11 PM - kddnewton (Kevin Newton)

Status:	Closed	
Priority:	Normal	
Assignee:		
Description		
Now that we require Visual Studio 2015 and Oracle Developer Studio 12.5, we can do a couple of things to clean up:		
• We should be able to remove our custom stdbool.h (added in VS2015 and Oracle SS 12.3) • Remove our usage of __restrict for Windows (added in VS2015) • Remove our custom va_copy (added in VS2015)		
Just notating, a couple of things that we <i>can</i> use now:		
• snprintf • size_t printf format specifier (%z)		
I'm happy to do this work, but I wanted to open this ticket in case there is something besides Visual Studio or Oracle Solaris Studio that I would have missed for one of our compilation targets. Are there any other targets that do not fully implement C99?		

History

#1 - 01/06/2024 10:54 AM - nobu (Nobuyoshi Nakada)

kddnewton (Kevin Newton) wrote:

Now that we require Visual Studio 2015 and Oracle Developer Studio 12.5, we can do a couple of things to clean up:

- We should be able to remove our custom stdbool.h (added in VS2015 and Oracle SS 12.3)

b75828fdfadaff6c5e09e42be32dff1216ed8fb1 says:

Fix compile error with Oracle Solaris Studio 12.4 on Solaris 10.

No problem with Oracle SS 12.5?

- Remove our usage of __restrict for Windows (added in VS2015)

_MSC_VER 1800 seems VS2013, so we might have been able to drop this condition already.

```
!if $(MSC_VER) >= 1800
#define restrict __restrict
#else
#define restrict /* not supported */
#endif
```

- Remove our custom va_copy (added in VS2015)

This is removed already?

Just notating, a couple of things that we *can* use now:

- snprintf

We use our custom snprintf not only for old platforms, but also to avoid locales.

#2 - 01/08/2024 02:59 PM - kddnewton (Kevin Newton)

I was going based on <https://github.com/ruby/ruby/wiki/C99-Usage-Guidelines>. Maybe this documentation needs to be updated.

b75828fdfadaff6c5e09e42be32dff1216ed8fb1 says:

Fix compile error with Oracle Solaris Studio 12.4 on Solaris 10.

No problem with Oracle SS 12.5?

The title of that commit is Support C89 if possible. [@ngoto \(Naohisa Goto\)](#) was that necessary for actual C99 compilers or only to support old out-of-date compilers?

_MSC_VER 1800 seems VS2013, so we might have been able to drop this condition already.

Yes I think this is true.

We use our custom sprintf not only for old platforms, but also to avoid locales.

I see, thanks for the clarification.

#3 - 06/07/2024 01:53 PM - kddnewton (Kevin Newton)

- *Status changed from Open to Closed*