

strongSwan - Bug #262

Spinlock Not Compiling During Install

12.12.2012 07:01 - Sean J

Status:	Closed	Start date:	12.12.2012
Priority:	Normal	Due date:	
Assignee:	Martin Willi	Estimated time:	0.00 hour
Category:	libstrongswan	Resolution:	
Target version:	5.0.2		
Affected version:	5.0.1		
Description			
<p>While trying to install strongswan, the make install script fails when trying to compile src/libstrongswan/testing/spinlock.c. I receive the following errors before the script fails:</p> <pre>threading/spinlock.c:47: error: expected specifier-qualifier-list before 'pthread_spinlock_t' threading/spinlock.c: In function 'lock': threading/spinlock.c:71: warning: implicit declaration of function 'pthread_spin_lock' threading/spinlock.c:71: error: 'private_spinlock_t' has no member named 'spinlock' threading/spinlock.c: In function 'unlock': threading/spinlock.c:88: warning: implicit declaration of function 'pthread_spin_unlock' threading/spinlock.c:88: error: 'private_spinlock_t' has no member named 'spinlock' threading/spinlock.c: In function 'destroy': threading/spinlock.c:103: warning: implicit declaration of function 'pthread_spin_destroy' threading/spinlock.c:103: error: 'private_spinlock_t' has no member named 'spinlock' threading/spinlock.c: In function 'spinlock_create': threading/spinlock.c:126: warning: implicit declaration of function 'pthread_spin_init' threading/spinlock.c:126: error: 'private_spinlock_t' has no member named 'spinlock'</pre>			

Associated revisions

Revision 4185c644 - 18.12.2012 09:51 - Martin Willi

Use a ./configure check to detect pthread spinlock availability

_POSIX_SPIN_LOCKS does not seem to be defined correctly on all systems (Debian libc 2.3.6). Fixes #262.

History

#1 - 12.12.2012 10:26 - Martin Willi

- Category set to libstrongswan
- Status changed from New to Assigned
- Assignee set to Martin Willi

There was a bug in 5.0.0 where the fallback to a mutex didn't work if spinlocks are not available. Are you in fact using 5.0.1? The bug has been fixed in this release.

What C library are you using? What's the output of:

```
find /usr/include/ | xargs grep _POSIX_SPIN_LOCKS
```

#2 - 12.12.2012 16:59 - Sean J

Thanks for the quick response. I confirmed that I am using 5.0.1. I am using glibc (libc6 on Debian), package version is 2.3.6.ds1-8. The output is as follows:

```
user@host:~# find /usr/include/ | xargs grep _POSIX_SPIN_LOCKS
grep: /usr/include/asm/proc: No such file or directory
/usr/include/bits/posix_opt.h:#define _POSIX_SPIN_LOCKS 200112L
```

#3 - 13.12.2012 11:29 - Martin Willi

Seems that `_POSIX_SPIN_LOCKS` is defined on your system, but spinlocks are actually not available.

I pushed a patch [1] that uses a `./configure` check instead, that should work more reliably. After applying the patch, you'll need `autoconf` and `friends` to update the build system.

Please let me know if this works for you, I'll then push the patch to master.

[1]<http://git.strongswan.org/?p=strongswan.git;a=commitdiff;h=12863b35>

#4 - 18.12.2012 09:57 - Martin Willi

- *Status changed from Assigned to Closed*

- *Target version set to 5.0.2*