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:

threading/spinlock.c:47: error: expected specifier-qualifier-list before 'pthread_spinlock_t'
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: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:103: warning: implicit declaration of function 'pthread_spin_destroy'
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'

Associated revisions
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

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.


#4 - 18.12.2012 09:57 - Martin Willi
- Status changed from Assigned to Closed
- Target version set to 5.0.2