

strongSwan - Bug #478

test_chunk failures on powerpc

02.01.2014 23:44 - Jonathan Davies

Status:	Closed	Start date:	02.01.2014
Priority:	High	Due date:	
Assignee:	Tobias Brunner	Estimated time:	0.00 hour
Category:	testing	Resolution:	Fixed
Target version:	5.1.2		
Affected version:	dr rc master		

Description

The chunk test suite for 5.1.2~dr2 fails with following on Ubuntu trusty:

```
Running suite 'chunk':
  Running case 'equals': +
  Running case 'chunk_compare': ++++++++
  Running case 'clear': +
  Running case 'chunk_length': +
  Running case 'chunk_create_cat': +
  Running case 'chunk_split': +
  Running case 'chunk_skip': ++
  Running case 'chunk_increment': ++++++
  Running case 'chunk_printable': ++++++++
  Running case 'baseXX': +++
  Running case 'chunk_mac': -
    Failure in 'test_chunk_mac': memeq(&out, sip_vectors[i], 8): test vector failed for 0 bytes
(suites/test_chunk.c:696, i = 0)
  Running case 'chunk_hash': +
  Running case 'chunk_hash_static': -
    Failure in 'test_chunk_hash_static': memeq(&out, sip_vectors[i], 4): test vector failed for
0 bytes (suites/test_chunk.c:743, i = 0)
  Running case 'printf_hook': ++++++++
Passed 12/14 'chunk' test cases
```

Full log can be found here:

https://launchpadlibrarian.net/161458607/buildlog_ubuntu-trusty-powerpc.strongswan_5.1.2~dr2-0ubuntu1_FAILEDTOBUILD.txt.gz

Associated revisions

Revision d62a6ec3 - 06.01.2014 17:31 - Tobias Brunner

chunk: Fix chunk_mac/hash tests on big-endian systems

Our SipHash-2-4 implementation returns the result in host order, while the test vectors are little-endian. Use a custom comparison function to account for this.

Fixes #478.

History

#1 - 06.01.2014 17:44 - Tobias Brunner

- Category set to testing
- Status changed from New to Resolved
- Assignee set to Tobias Brunner
- Resolution set to Fixed

The test vectors for chunk_mac() are in little-endian, while the function returns the result in host-order. Since the byte order of the result doesn't matter for practical purposes, and avoiding the byte swap is even a performance improvement, I simply fixed the test cases to account for this.

Fixed with the associated commit.

#2 - 06.01.2014 18:26 - Tobias Brunner

- *Tracker changed from Issue to Bug*

- *Target version set to 5.1.2*

#3 - 28.02.2014 08:38 - Tobias Brunner

- *Status changed from Resolved to Closed*