

strongSwan - Bug #491

dh_strip breaking integrity test checksums

17.01.2014 07:33 - Jonathan Davies

Status:	Closed	Start date:	17.01.2014
Priority:	Normal	Due date:	
Assignee:	Tobias Brunner	Estimated time:	0.00 hour
Category:			
Target version:	5.1.2		
Affected version:	dr rc master	Resolution:	Fixed

Description

Hello,

It would seem that integrity tests are not compatible with the dh_strip component of Debian packaging:

https://launchpadlibrarian.net/162584546/buildlog_ubuntu-trusty-amd64.strongswan_5.1.2~dr3-0ubuntu1_UPLOADING.txt.gz

This is reported on build:

```
...
integrity test data:
module name,          file size / checksum  segment size / checksum
"libstrongswan",     1761630 / 0x07f7322e   290364 / 0x885c7c3d
...
```

However, the integrity checks later fail with:

```
$ charon-cmd
00[LIB]  invalid 'libstrongswan' file size: 321208 bytes, expected 1761630 bytes
00[LIB]  integrity check of libstrongswan failed
```

This is what's reported at the end of the package build:

```
chroot-autobuild/build/builddd/libstrongswan_5.1.2~dr3-0ubuntu1_amd64.deb:
...
-rw-r--r-- root/root      321208 2014-01-15 23:23 ./usr/lib/ipsec/libstrongswan.so.0.0.0
...
```

It would seem that dh_strip is responsible for this:

- http://manpages.debian.net/cgi-bin/man.cgi?query=dh_strip

I tested that disabled nostrip makes integrity tests work. However, the only reason I'm filing this is as dh_strip significantly brings down the size of the final packages:

```
$ ls -lh
total 4.5M
-rw-rw-r-- 1 ubuntu ubuntu 318K Jan 15 23:28 libstrongswan_5.1.2~dr3-0ubuntu1_amd64.deb
-rw-r--r-- 1 ubuntu ubuntu 1.5M Jan 17 06:16 libstrongswan_5.1.2~dr3-0ubuntu2_amd64.deb
-rw-rw-r-- 1 ubuntu ubuntu 179K Jan 15 23:28 strongswan-ike_5.1.2~dr3-0ubuntu1_amd64.deb
-rw-r--r-- 1 ubuntu ubuntu 1.2M Jan 17 06:16 strongswan-ike_5.1.2~dr3-0ubuntu2_amd64.deb
-rw-rw-r-- 1 ubuntu ubuntu  22K Jan 15 23:28 strongswan-plugin-lookip_5.1.2~dr3-0ubuntu1_amd64.deb
-rw-r--r-- 1 ubuntu ubuntu 128K Jan 17 06:16 strongswan-plugin-lookip_5.1.2~dr3-0ubuntu2_amd64.deb
-rw-rw-r-- 1 ubuntu ubuntu  41K Jan 15 23:28 strongswan-plugin-openssl_5.1.2~dr3-0ubuntu1_amd64.de
b
-rw-r--r-- 1 ubuntu ubuntu 238K Jan 17 06:16 strongswan-plugin-openssl_5.1.2~dr3-0ubuntu2_amd64.de
b
-rw-rw-r-- 1 ubuntu ubuntu 237K Jan 15 23:28 strongswan-starter_5.1.2~dr3-0ubuntu1_amd64.deb
-rw-r--r-- 1 ubuntu ubuntu 746K Jan 17 06:16 strongswan-starter_5.1.2~dr3-0ubuntu2_amd64.deb
```

Is there a way I regenerate checksum.so after dh_strip runs? Looking at Makefile.am, I can't see any easy target to run in my debian/rules file.

Related issues:

Related to Issue #512: checksum.so regen doesn't work

Closed**Associated revisions**

Revision a40c6619 - 21.01.2014 14:53 - Tobias Brunner

checksum: Read executables from DESTDIR

This allows to recreate the checksums after the installed binaries have been modified e.g. with strip.

Fixes #491.

History

#1 - 21.01.2014 14:56 - Tobias Brunner

- *Tracker changed from Issue to Bug*
- *Status changed from New to Resolved*
- *Assignee set to Tobias Brunner*
- *Target version set to 5.1.2*
- *Resolution set to Fixed*

Is there a way I regenerate checksum.so after dh_strip runs?

dh_strip seems to run after make install, which is when the checksums are generated. To recreate the checksums afterwards you could run something like `make -C src/checksum clean install DESTDIR=...`, if that's possible to do (optionally followed by another call to dh_strip or strip `<DESTDIR/ipseclibdir>/libchecksum.so` manually (saves about 5 KB, so might not be worth the effort).

One problem with the above is that executables were not read from DESTDIR but the build directory. The associated commit fixes that.

#2 - 10.02.2014 12:49 - Tobias Brunner

- *Related to Issue #512: checksum.so regen doesn't work added*

#3 - 28.02.2014 08:39 - Tobias Brunner

- *Status changed from Resolved to Closed*