Subject: Re: Incorrect SHA1 checksum for files 4GB+Posted by Zbych on Sat, 16 Jun 2018 09:19:29 GMT

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I've made some further tests:

- 1. reading and writing file using Upp's stream no difference between original file and copy was detected.
- 2. replace Upp's sha1 with some random sha1 from git: https://github.com/clibs/sha1 now checksum is the same as from sha1sum.
- 3. optimization level doesn't change result (both Upp's sha1 and git's)

Test app that calculates sha1 using Upp and git version at the same time is attached.

## 4GB file:

16.06.2018 11:11:27 File '/tmp/file4GB.bin' sha1 calculation started 16.06.2018 11:12:03 UPP SHA1: 1e4aca8da9f53733575cd351347b6a054a098bf5 16.06.2018 11:12:03 GIT SHA1: d43db14ac2c197da7d4d0048105f2af0bcb75f0b

\$ sha1sum /tmp/file4GB.bin d43db14ac2c197da7d4d0048105f2af0bcb75f0b /tmp/file4GB.bin

## File smaller than 4GB:

16.06.2018 11:17:39 File '/tmp/file4GB-.bin' sha1 calculation started 16.06.2018 11:18:16 UPP SHA1: 30c411fa4ca4ed06b54ecb6143abcd39f2c32591 16.06.2018 11:18:16 GIT SHA1: 30c411fa4ca4ed06b54ecb6143abcd39f2c32591

\$ sha1sum /tmp/file4GB-.bin 30c411fa4ca4ed06b54ecb6143abcd39f2c32591 /tmp/file4GB-.bin

## File Attachments

1) shaltest.zip, downloaded 301 times