NAME

shasum - Print or Check SHA Checksums

SYNOPSIS

Usage: shasum [OPTION]... [FILE]... Print or check SHA checksums. With no FILE, or when FILE is -, read standard input.

-a,algorithm 1 (default), 224, 256, 384, 512, 512224, 512256		
-b,binary	read in binary mode	
-c,check	read SHA sums from the FILEs and check them	
tag	create a BSD-style checksum	
-t,text	read in text mode (default)	
-U,UNIVERSAL read in Universal Newlines mode		
	produces same digest on Windows/Unix/Mac	
-0,01	read in BITS mode	
	ASCII '0' interpreted as 0-bit,	
	ASCII '1' interpreted as 1-bit,	
	all other characters ignored	

The following five options are useful only when verifying checksums:

--ignore-missing don't fail or report status for missing files

-q,quiet	don't print OK for each successfully verified file
-s,status	don't output anything, status code shows success
strict	exit non-zero for improperly formatted checksum lines
-w,warn	warn about improperly formatted checksum lines

-h, --help display this help and exit

-v, --version output version information and exit

When verifying SHA-512/224 or SHA-512/256 checksums, indicate the algorithm explicitly using the -a option, e.g.

shasum -a 512224 -c checksumfile

The sums are computed as described in FIPS PUB 180-4. When checking, the input should be a former output of this program. The default mode is to print a line with checksum, a character indicating type ('*' for binary, ' ' for text, 'U' for UNIVERSAL, '^' for BITS), and name for each FILE. The line starts with a '\' character if the

FILE name contains either newlines or backslashes, which are then replaced by the two-character sequences '\n' and '\\' respectively.

Report shasum bugs to mshelor@cpan.org

DESCRIPTION

Running *shasum* is often the quickest way to compute SHA message digests. The user simply feeds data to the script through files or standard input, and then collects the results from standard output.

The following command shows how to compute digests for typical inputs such as the NIST test vector "abc":

perl -e "print qq(abc)" | shasum

Or, if you want to use SHA-256 instead of the default SHA-1, simply say:

perl -e "print qq(abc)" | shasum -a 256

Since *shasum* mimics the behavior of the combined GNU *sha1sum*, *sha224sum*, *sha256sum*, *sha384sum*, and *sha512sum* programs, you can install this script as a convenient drop-in replacement.

Unlike the GNU programs, *shasum* encompasses the full SHA standard by allowing partial-byte inputs. This is accomplished through the BITS option (-0). The following example computes the SHA-224 digest of the 7-bit message 0001100:

perl -e "print qq(0001100)" | shasum -0 -a 224

AUTHOR

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SEE ALSO

shasum is implemented using the Perl module Digest::SHA.