

**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

-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

-p, --portable read in portable mode (to be deprecated)

The following two options are useful only when verifying checksums:

-s, --status don't output anything, status code shows success

-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, '?' for portable), and name for each FILE.

Report shasum bugs to [mshelor@cpan.org](mailto: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](#) or [Digest::SHA::PurePerl](#).