

**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)
-p, --portable  read in portable 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 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, ``?'` for portable, ``^'` for BITS), 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

Copyright (c) 2003-2014 Mark Shelor <mshelor@cpan.org>.

## SEE ALSO

*shasum* is implemented using the Perl module *Digest::SHA* or *Digest::SHA::PurePerl*.