

Hashing

OpenSSL also provides functions for hashing using the sha.h header files. The program has two functions - sha_file() and compute_sha(). The former reads the binary file and processes it to be ready for hashing while the latter produces the hash value depending on the type of hash algorithm used. One of the most important parameters to take note of is the output size. It is computed by converting the bits to bytes then doubling the size because the output will be using the hex format which uses two digits (00 to FF). The main methods for the hashing are SHA256_Init(), SHA256_Update(), and SHA256_Final(). To switch to other algorithms, just change SHA256 to let's say SHA512.

Output

After running the program, the created hash value will be printed on the terminal. Length varies on the type of hash algorithm used.