

# **Cryptographic Hash Algorithms Performance Finding using .Net Simulation**

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## **Abstract**

Hashing is one of the cryptographic methods to provide security. It maps very big sets of keys to smaller sets of hash value. Hash algorithms convert any length of input to permanent length of output for fast accessing and to ensure integrity of data. Information authentication is provided by hash functions. Objective of this paper is to implement hash algorithms MD5, SHA-1, SHA-256, SHA-384, SHA-512, RIPEMD-160 in .Net platform and simulate the performances on the basis of speed, throughput and memory. The text files are taken for the tests to find the changes on these parameters when output length changes. The purpose is to get the performances are to take the best algorithm for information hiding.

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