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That's all there is to it!

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crypto-algorithms (<https://github.com/B-Con/crypto-algorithms>)

These are basic implementations of standard cryptography algorithms, written by Brad Conte (brad@bradconte.com) from scratch and without any cross-licensing. They exist to provide publically accessible, restriction-free implementations of popular cryptographic algorithms, like AES and SHA-1. These are primarily intended for educational and pragmatic purposes (such as comparing a specification to actual implementation code, or for building an internal application that computes test vectors for a product). The algorithms have been tested against standard test vectors.

This code is released into the public domain free of any restrictions. The author requests acknowledgement if the code is used, but does not require it. This code is provided free of any liability and without any quality claims by the author.

Note that these are *not* cryptographically secure implementations. They have no resistance to side-channel attacks and should not be used in contexts that need cryptographically secure implementations.

These algorithms are not optimized for speed or space. They are primarily designed to be easy to read, although some basic optimization techniques have been employed.

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LibTomMath (<https://github.com/libtom/libtommath>)

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curve25519-donna (<https://github.com/agl/curve25519-donna>)

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curve25519-donna: Curve25519 elliptic curve, public key function

<http://code.google.com/p/curve25519-donna/>

Adam Langley agl@imperialviolet.org

Derived from public domain C code by Daniel J. Bernstein djb@cr.yp.to

More information about curve25519 can be found here <http://cr.yp.to/ecdh.html>

djb's sample implementation of curve25519 is written in a special assembly language called qhasm and uses the floating point registers.

This is, almost, a clean room reimplementation from the curve25519 paper. It uses many of the tricks described therein. Only the crecip function is taken from the sample implementation.

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chacha20_simple (https://github.com/ivoras/chacha20_simple)

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<http://chacha20.insanecoding.org/>)

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This implementation is intended to be simple, many optimizations can be performed.

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