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can be used freely for any purpose. Any derived versions of this  
software must be clearly marked as such, and if the derived work is  
incompatible with the protocol description in the RFC file, it must be  
called by a name other than "ssh" or "Secure Shell". "

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loginrec.c

loginrec.h

atomicio.h

atomicio.c

and strlcat() (included in util.c) are from OpenSSH 3.6.1p2, and are licensed  
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loginrec is written primarily by Andre Lucas, atomicio.c by Theo de Raadt.

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**This Product includes libtomcrypt software under below license.**

LibTomCrypt is a fairly comprehensive, modular and portable cryptographic toolkit that provides developers with a vast array of well known published block ciphers, one-way hash functions, chaining modes, pseudo-random number generators, public key cryptography and a plethora of other routines.

LibTomCrypt has been designed from the ground up to be very simple to use. It has a modular and standard API that allows new ciphers, hashes and PRNGs to be added or removed without change to the overall end application. It features easy to use functions and a complete user manual which has many source snippet examples.

LibTomCrypt is free for all purposes under the public domain. This includes commercial use, redistribution and even branching.

Sports the following

- Public domain and open source.
- Written entirely in portable ISO C source (except for things like RNGs for natural reasons)
- Builds out of the box on virtually every box. All that is required is GCC for the source to build.
- Includes a 180+ page user manual in PDF format (with working examples in it)
- Block Ciphers
  - Ciphers come with an ECB encrypt/decrypt, setkey and self-test interfaces.
  - All ciphers have the same prototype which facilitates using multiple ciphers at runtime.

- Some of the ciphers are flexible in terms of code size and memory usage.
- Ciphers Supported.
  - Blowfish
  - XTEA
  - RC5
  - RC6
  - SAFER+
  - Rijndael (aka AES)
  - Twofish
  - SAFER (K64, SK64, K128, SK128)
  - RC2
  - DES, 3DES
  - CAST5
  - Noekeon
  - Skipjack
  - Anubis (with optional tweak as proposed by the developers)
  - Khazad
  - KASUMI
  - SEED
- Chaining Modes
  - Modes come with a start, encrypt/decrypt and set/get IV interfaces.
  - Mode supported.
    - ECB
    - CBC
    - OFB
    - CFB
    - CTR
    - IEEE LRW mode
    - F8 Chaining Mode
- One-Way Hash Functions
  - Hashes come with init, process, done and self-test interfaces.
  - All hashes use the same prototypes for the interfaces.
  - Hashes supported.
    - MD2
    - MD4
    - MD5
    - SHA-1
    - SHA-224/256/384/512
    - TIGER-192
    - RIPE-MD 128/160/256/320

- WHIRLPOOL
- Message Authentication
  - FIPS-198 HMAC (supports all hashes)
  - CMAC, also known as [OMAC1](#) (supports all ciphers)
  - PMAC Authentication
  - F9-MAC
  - Pelican MAC
- Message Encrypt+Authenticate Modes
  - EAX Mode
  - OCB Mode
  - CCM Mode (NIST spec)
  - GCM Mode (IEEE spec)
- Pseudo-Random Number Generators
  - Yarrow (based algorithm)
  - RC4
  - Support for /dev/random, /dev/urandom and the Win32 CSP RNG
  - Fortuna
  - SOBER-128
- Public Key Algorithms
  - RSA (using PKCS #1 v1.5 and v2.1)
  - ECC (EC-DSA X9.62 signatures, X9.63 EC-DH)
    - With fast Fixed Point ECC support as well
    - X9.63 import/export of public keys
  - DSA (Users make their own groups)
  - The math routines are pluggable which means you can use your own math provider if you want.
- Other standards
  - PKCS #1 (v1.5 and v2.1 padding)
  - PKCS #5
  - ASN.1 DER for SEQUENCE, INTEGER, BIT STRING, OCTET STRING, OBJECT IDENTIFIER, IA5 STRING, PRINTABLE STRING, UTCTIME, CHOICE and NULL types.
- Portable code builds out of the box with a conforming C compiler
  - Builds out of the box with platform optimizations for i386 (x86\_32, gcc and msvc), x86\_64 and PPC32

LibTomCrypt builds out of the box with GCC 2.95 and up as well as Visual C++ v6.00 with SP5. It can be reconfigured to eliminate algorithms, use different build options (e.g. smaller or faster code) or use different build tools. It has been successfully tested on numerous platforms ranging from the x86 (Intel and AMD), ARM7TDMI, PowerPC and MIPS series of processors. The code is all endian neutral and uses only standard C syntax.

<http://libtom.org/?page=features&newsitems=5&whatfile=crypt>



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LibTomMath is a free open source portable number theoretic multiple-precision integer library written entirely in C. (pew!). The library is designed to provide a simple to work with API that provides fairly efficient routines that build out of the box without configuration.

The library builds out of the box with GCC 2.95 [and up] as well as Visual C++ v6.00 [with SP5] without configuration. The source code is arranged to make it easy to dive into a particular area very quickly. The code is also littered with comments [*This is one of the on going goals*] that help explain the algorithms and their implementations. Ideally the code will serve as an educational tool in the future for CS students studying number theory.

The library provides a vast array of highly optimized routines from various branches of number theory.

- Simple Algebraic
  - Addition
  - Subtraction
  - Multiplication
  - Squaring
  - Division
- Digit Manipulation
  - Shift left/right whole digits (mult by  $2^h$  by moving digits)
  - Fast multiplication/division by 2 and  $2^k$  for  $k > 1$
  - Binary AND, OR and XOR gates
- Modular Reductions
  - Barrett Reduction (fast for any p)
  - Montgomery Reduction (faster for any odd p)
  - DR Reduction (faster for any restricted p see manual)
  - $2k$  Reduction (fast reduction modulo  $2^p - k$  for  $k < \text{MP\_MASK}$  and for  $k > \text{MP\_MASK}$ )
  - The exptmod logic can use any of the five reduction algorithms when appropriate with a single function call.
- Number Theoretic
  - Greatest Common Divisor
  - Least Common Multiple
  - Jacobi Symbol Computation (falls back to Legendre for prime moduli)
  - Multiplicative Inverse
  - Extended Euclidean Algorithm
  - Modular Exponentiation
  - Fermat and Miller-Rabin Primality Tests, utility function such as `is_prime` and `next_prime`
- Miscellaneous
  - Root finding over  $\mathbb{Z}$
  - Pseudo-random integers
  - Signed and Unsigned comparisons

- Optimizations
  - Fast Comba based Multiplier, Squaring and Montgomery routines.
  - Montgomery, Diminished Radix and Barrett based modular exponentiation.
  - Karatsuba and Toom-Cook multiplication algorithms.
  - Many pointer aliasing optimizations throughout the entire library.

<http://libtom.org/?page=features&newsitems=5&whatfile=ltm>

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jpg "Clone me," says Dolly sheepishly

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  29. [32]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
  30. [33]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
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