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5. ext/standard crypt

FreeSec: libcrypt for NetBSD

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6. ext/standard crypt's blowfish implementation

The crypt_blowfish homepage is:

<http://www.openwall.com/crypt/>

This code comes from John the Ripper password cracker, with reentrant and crypt(3) interfaces added, but optimizations specific to password cracking removed.

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This implementation is mostly compatible with OpenBSD's bcrypt.c (prefix "\$2a\$") by Niels Provos <provos at citi.umich.edu>, and uses some of his ideas. The password hashing algorithm was designed by David Mazieres <dm at lcs.mit.edu>. For more information on the level of compatibility,

please refer to the comments in `BF_set_key()` and to the `crypt(3)` man page included in the `crypt_blowfish` tarball.

There's a paper on the algorithm that explains its design decisions:

<http://www.usenix.org/events/usenix99/provos.html>

Some of the tricks in `BF_ROUND` might be inspired by Eric Young's Blowfish library (I can't be sure if I would think of something if I hadn't seen his code).

7. `Sqlite/Sqlite3 ext/sqlite3 ext/sqlite`

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8. `ext/json/json_parser`

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9. `ext/standard/rand`

The following `php_mt_...()` functions are based on a C++ class `MTRand` by Richard J. Wagner. For more information see the web page at <http://www-personal.engin.umich.edu/~wagnerr/MersenneTwister.html>

Mersenne Twister random number generator -- a C++ class `MTRand`
Based on code by Makoto Matsumoto, Takuji Nishimura, and Shawn Cokus
Richard J. Wagner v1.0 15 May 2003 rjwagner@write.me

The Mersenne Twister is an algorithm for generating random numbers. It was designed with consideration of the flaws in various other generators. The period, $2^{19937}-1$, and the order of equidistribution, 623 dimensions, are far greater. The generator is also fast; it avoids multiplication and division, and it benefits from caches and pipelines. For more information see the inventors' web page at <http://www.math.keio.ac.jp/~matumoto/emt.html>

Reference

M. Matsumoto and T. Nishimura, "Mersenne Twister: A 623-Dimensionally Equidistributed Uniform Pseudo-Random Number Generator", *ACM Transactions on Modeling and Computer Simulation*, Vol. 8, No. 1, January 1998, pp 3-30.

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10. ext/standard/scanf
scanf.c --

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11. ext/standard/strnatcmp.c

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.

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12. ext/standard/uuencode

Portions of this code are based on Berkeley's uuencode/uudecode implementation.

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13. libxmlrpc ext/xmlrpc

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14. libzip ext/zip

zip.h -- exported declarations.

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This file is part of libzip, a library to manipulate ZIP archives.
The authors can be contacted at <libzip@nih.at>

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15. main/snprintf.c

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main/spprintf

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This code is based on, and used with the permission of, the SIO stdio-replacement `strx_*` functions by Panos Tsirigotis <panos@alumni.cs.colorado.edu> for `xinetd`.

16. `main/strlcat`
17. `main/strlcpy`
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