



Tape Automation Scalar Key Manager, Software Release 2.2 Open Source Software Licenses

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Rijndael AES License

Optimised ANSI C code for the Rijndael cipher (now AES)

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Acknowledgements:

We are deeply indebted to the following people for their bug reports, fixes, and improvement suggestions to the API implementation. Though we tried to list all contributions, we apologise in advance for any missing reference:

Andrew Bales <Andrew.Bales@Honeywell.com>

Markus Friedl <markus.friedl@informatik.uni-erlangen.de>

John Skodon <skodonj@webquill.com>

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Description:

This optimised implementation of Rijndael is noticeably faster than the previous versions on Intel processors under Win32 w/ MSVC 6.0. On the same processor under Linux w/ gcc-2.95.2, the key setup is also considerably faster, but normal encryption/decryption is only marginally faster.

To enable full loop unrolling for encryption/decryption, define the conditional compilation directive FULL_UNROLL. This may help increase performance or not, depending on the platform.

To compute the intermediate value tests, define the conditional compilation directive INTERMEDIATE_VALUE_KAT. It may be worthwhile to define the TRACE_KAT_MCT directive too, which provides useful progress information during the generation of the KAT and MCT sets.

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Contents:

README This file

rijndael-alg-fst.c The algorithm implementation.

rijndael-alg-fst.h The corresponding header file.

rijndael-api-fst.c NIST's implementation.

rijndael-api-fst.h The corresponding header file.

rijndael-test-fst.c A simple program to generate test vectors.
table.128 Data for the table tests and 128-bit keys.
table.192 Data for the table tests and 192-bit keys.
table.256 Data for the table tests and 256-bit keys.
fips-test-vectors.txt Key schedule and ciphertext intermediate values (reduced set proposed for FIPS inclusion).
Makefile A sample makefile; may need some changes, depending on the C compiler used.

N.B. Both the API implementation and the provisional reduced set of test vectors are likely to change, according to NIST's final decision regarding modes of operation and the FIPS contents. They are therefore marked as "version 2.9" rather than "version 3.0".

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