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Mx HMI

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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

@author Vincent Rijmen

@author Antoon Bosselaers

@author Paulo Barreto

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hash.c: chained hash tables

list.c: lists handling implementation

trio.c

Reference: Your favorite introductory book on algorithms

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11.4.0; libwpe 1.14.0; linux 5.15.113; long 4.0.0; make-fetch-happen 8.0.14; make-fetch-happen 9.1.0; mesa 22.0.3; nalgabra-macros 0.1.0; node v16.11.1; oauth-sign 0.9.0; openssl 3.0.10; openwnn 1.3.6; pause-stream 0.0.11; pinyin 1.0.0; PinyinIME 1.0; qrcode-terminal 0.12.0; qtbase 6.5.1; remapping 2.2.1; request 2.88.2; simba 0.6.0; spdx-correct 3.1.1; tcime; Traditional Chinese IME (tcime); tunnel-agent 0.6.0; typescript 4.7.4; typescript 5.2.2; v8 9.4.146.19; validate-npm-package-license 3.0.4; vulkan-loader 1.2.182.0; wasm-api 0; wpewebkit 2.38.2

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### Bit Twiddling Hacks

By Sean Eron Anderson

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Version 3.1, 31 March 2009

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Tim Kientzle, February 2009.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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<http://www.esat.kuleuven.ac.be/~rijmen/rijndael/> on Oct 2, 2000,

-----  
rijndael-alg-fst.c v2.3 April '2000

Optimised ANSI C code

authors: v1.0: Antoon Bosselaers

v2.0: Vincent Rijmen

v2.3: Paulo Barreto

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The SP800-38a document is available at: <http://csrc.nist.gov/publications/nistpubs/800-38a/sp800-38a.pdf>

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fs.walk 1.2.8; function-bind 1.1.1; function-bind 1.1.2; futf 0.1.5; futures-channel 0.3.21; futures-core 0.3.21; futures-executor 0.3.21; futures-io 0.3.21; futures-task 0.3.21; futures-util 0.3.21; fxhash 0.2.1; gdk-pixbuf 0.14.0; gdk-pixbuf-sys 0.14.0; gen-mapping 0.3.3; generator 7.22.5; gensync 1.0.0-beta.2; get-intrinsic 1.1.1; get-intrinsic 1.2.1; getpass 0.1.7; getrandom- 0.1.16; giget 1.1.2; gio 0.14.8; gio-sys 0.14.0; glib; glib 0.14.8; glib 2.72.3; glib-macros 0.14.1; glib-sys 0.14.0; globals 11.12.0; globby 11.1.0; globby 13.1.4; gobject-sys 0.14.0; gradle 8.0; gst-plugins-bad 1.20.6; gst-plugins-base 1.20.6; gst-plugins-good 1.20.6; har-validator 5.1.5; harfbuzz 7.2.0; has 1.0.3; has-flag 3.0.0; has-flag 4.0.0; has-flag 5.0.1; has-proto 1.0.1; has-symbols 1.0.2; has-symbols 1.0.3; hash-sum 2.0.0; hasown 2.0.0; heck 0.4.0; heck- 0.3.3; helper-compilation-targets 7.22.5; helper-environment-visitor 7.22.5; helper-function-name 7.22.5; helper-hoist-variables 7.22.5; helper-module-imports 7.22.5; helper-module-transforms 7.22.5; helper-simple-access 7.22.5; helper-split-export-declaration 7.22.5; helper-string-parser 7.22.5; helper-validator-identifier 7.22.5; helper-validator-option 7.22.5; helpers 7.22.5; hexy 0.2.11; highlight 7.22.5; http-assert 1.4.1; http-errors 1.6.3; http-errors 1.7.3; http-errors 1.8.0; http-errors 2.0.0; http-proxy-agent 4.0.1; http-signature 1.2.0; https-proxy-agent 5.0.0; https-proxy-agent 5.0.1; humanize-ms 1.2.1; iconv-lite 0.4.24; iconv-lite 0.6.3; idna 0.2.3; ignore 5.2.4; imurmurhash 0.1.4; indent-string 4.0.0; inflation 2.0.0; ip 1.1.5; ip-regex 4.3.0; ipaddr.js 1.9.1; is-alphabetical 2.0.0; is-alphanumeric 2.0.0; is-binary-path 2.1.0; is-buffer 2.0.5; is-core-module 2.13.1; is-decimal 2.0.0; is-docker 2.2.1; is-extglob 2.1.1; is-fullwidth-code-point 1.0.0; is-fullwidth-code-point 2.0.0; is-fullwidth-code-point 3.0.0; is-fullwidth-code-point 4.0.0; is-generator-function 1.0.9; is-glob 4.0.3; is-hexadecimal 2.0.0; is-lambda 1.0.1; is-number 7.0.0; is-plain-obj 4.0.0; is-typedarray 1.0.0; is-wsl 2.2.0; isarray 0.0.1; isarray 1.0.0; istream 0.1.2; itertools 0.10.3; itoa- 0.4.8; JavaScriptCore; jiti 1.18.2; js-tokens 4.0.0; js-yaml 4.1.0; jsbn 0.1.1; jsc 2.5.2; JSMN; json-parse-even-better-errors 2.3.1; json-schema-traverse 0.4.1; json5 2.2.3; jsonc-parser 3.2.0; jsoncpp 1.9.0; jsonparse 1.3.1; JSONStream 1.3.5; jsprim 1.4.2; just-diff 3.1.1; just-diff-apply 3.0.0; keygrip 1.1.0; kit 3.0.0; knitwork 1.0.0; koa 2.13.1; koa-bodyparser 4.3.0; koa-compose 3.2.1; koa-compose 4.1.0; koa-compress 3.1.0; koa-conditional-get 2.0.0; koa-convert 1.2.0; koa-etag 3.0.0; koa-is-json 1.0.0; koa-json 2.0.2; koa-morgan 1.0.1; koa-range 0.3.0; koa-route 3.2.0; koa-send 5.0.1; koa-static 5.0.0; language-tags 0.3.2; lazy\_static 1.4.0; lcms2 2.13.1; libc 0.2.119; libdrm 2.4.110; libepoxy 1.5.10; libevdev 1.12.1; libevent 2.1.5; libffi 3.4.4 3.3; libinput 1.19.4; liblcms2 2.8; libpciaccess 0.16; libpsl 0.21.1; libsoup 3.0.7; libusb 1.0.26; libX11 1.6.8; libxkbcommon 1.4.1; libxml2 2.9.14; libXNVCtrl 1.28; lint-md 1.0.0; linux 5.15.113; Linux-PAM 1.5.2; llhttp 6.0.4; load-module 3.0.0; local-pkg 0.4.3; local-web-server 4.2.1; locale\_config 0.3.0; lock\_api 0.4.6; lodash 4.17.21; lodash.\_reinterpolate 3.0.0; lodash.assignwith 4.2.0; lodash.camelcase 4.3.0; lodash.template 4.5.0; lodash.templatesettings 4.2.0; lodash.throttle 4.1.1; log 0.4.14; longest-streak 3.0.0; lws 3.1.0; lws-basic-auth 2.0.0; lws-blacklist 3.0.0; lws-body-parser 2.0.0; lws-compress 2.0.0; lws-conditional-get 2.0.0; lws-cors 3.0.0; lws-index 2.0.0; lws-json 2.0.0; lws-log 2.0.0; lws-mime 2.0.0; lws-range 3.0.0; lws-request-monitor 2.0.0; lws-rewrite 3.1.1; lws-spa 3.0.0; lws-static 2.0.0; mac 0.1.1; magic-string 0.27.0; magic-string 0.30.0; map-stream 0.1.0; markdown-table 3.0.1; markup5ever 0.10.1; matches 0.1.9; matrixmultiply 0.3.2; md4c 0.4.8; mdast 3.0.10; mdast-comment-marker 2.1.0; mdast-util-find-and-replace 2.1.0; mdast-util-from-markdown 1.0.2; mdast-util-gfm 1.0.0; mdast-util-gfm-autolink-literal 1.0.2; mdast-util-gfm-strikethrough 1.0.0; mdast-util-gfm-table 1.0.1; mdast-util-gfm-task-list-item 1.0.0; mdast-util-heading-style 2.0.0; mdast-util-mdx-expression 1.1.1; mdast-util-to-markdown 1.2.3; mdast-util-to-string 3.1.0; media-typer 0.3.0; memchr 2.4.1; memoffset 0.6.5; memory-fs 0.5.0; merge-descriptors 1.0.1; merge2 1.4.1; mesa 22.0.3; message-compiler 9.2.2; methods 1.1.2; micromark 3.0.5; micromark-core-commonmark 1.0.1; micromark-extension-gfm 1.0.0; micromark-extension-gfm-autolink-literal 1.0.0; micromark-extension-gfm-strikethrough 1.0.1; micromark-extension-gfm-table 1.0.0; micromark-extension-gfm-tagfilter 1.0.0; micromark-extension-gfm-task-list-item 1.0.0; micromark-factory-destination 1.0.0; micromark-factory-label

1.0.0; micromark-factory-space 1.0.0; micromark-factory-title 1.0.0; micromark-factory-whitespace 1.0.0; micromark-util-character 1.1.0; micromark-util-chunked 1.0.0; micromark-util-classify-character 1.0.0; micromark-util-combine-extensions 1.0.0; micromark-util-decode-numeric-character-reference 1.0.0; micromark-util-decode-string 1.0.0; micromark-util-encode 1.0.0; micromark-util-html-tag-name 1.0.0; micromark-util-normalize-identifier 1.0.0; micromark-util-resolve-all 1.0.0; micromark-util-sanitize-uri 1.0.0; micromark-util-subtokenize 1.0.0; micromark-util-symbol 1.0.0; micromark-util-types 1.0.1; micromatch 4.0.5; mime 1.6.0; mime-db 1.48.0; mime-db 1.52.0; mime-types 2.1.31; mime-types 2.1.35; minipass-fetch 1.4.1; minipass-json-stream 1.0.1; minizlib 2.1.2; mkdirp 1.0.4; mllly 1.3.0; moment 2.29.4; morgan 1.10.0; move-file 1.1.2; mpg123 1.29.3; mri 1.2.0; ms 0.7.31; ms 2.0.0; ms 2.1.2; ms 2.1.3; mtdev 1.1.6; mz 2.7.0; nan 2.17.0; nanoid 3.3.6; negotiator 0.6.2; negotiator 0.6.3; network-config 3.0.0; new\_debug\_unreachable 1.0.4; nghttp2 1.45.1; nghttp2 1.47.0; ngtcp2 0.1.0-DEV; node v16.11.1; node-core-clang-format 1.0.0; node-doc-generator 0.0.0; node-fetch-native 1.2.0; node-gyp 7.1.2; node-gyp 8.2.0; node-releases 2.0.12; node-version-matches 2.0.1; nodrop 0.1.14; normalize-path 3.0.0; num\_cpus 1.13.1; num-complex 0.4.0; num-integer 0.1.44; num-rational 0.4.0; num-traits 0.2.14; number-is-nan 1.0.1; object-assign 4.1.1; object-inspect 1.10.3; object-inspect 1.12.3; ohash 1.1.2; on-finished 2.3.0; on-finished 2.4.1; on-headers 1.0.2; once 1.1.2; once\_cell 1.10.0; only 0.0.2; open 7.4.2; opener 1.5.2; openssh 8.9; p-map 4.0.0; pango 0.14.8; pango-sys 0.14.0; pangocairo 0.14.0; pangocairo-sys 0.14.0; parking\_lot 0.11.2; parking\_lot\_core 0.8.5; parse-entities 3.0.0; parser 7.22.5; parseurl 1.3.3; paste 1.0.6; path-is-absolute 1.0.1; path-parse 1.0.7; path-to-regexp 0.1.7; path-to-regexp 1.8.0; path-to-regexp 6.2.0; path-type 4.0.0; pathe 1.1.1; pause-stream 0.0.11; percent-encoding 2.1.0; perfect-debounce 0.1.3; performance-now 2.1.0; phf 0.8.0; phf\_codegen 0.8.0; phf\_generator 0.8.0; phf\_macros 0.8.0; phf\_shared 0.10.0; phf\_shared- 0.8.0; picomatch 2.3.1; pin-project-lite 0.2.8; pin-utils 0.1.0; ping 0.4.4; pinia 2.1.3; pixman 0.17.12; pixman 0.40.0; pkg-config 0.3.24; pkg-types 1.0.3; pluginutils 5.0.2; pluralize 8.0.0; postcss 8.4.24; postcss-import-resolver 2.0.0; ppv-lite86 0.2.16; precomputed-hash 0.1.1; proc-macro-crate 1.1.3; proc-macro-error 1.0.4; proc-macro-error-attr 1.0.4; proc-macro-hack 0.5.19; proc-macro2 1.0.36; process-nexttick-args 2.0.1; promise-retry 2.0.1; promisify 1.1.2; proxy-addr 2.0.7; proxy-from-env 1.1.0; prr 1.0.1; psl 1.9.0; punycode 2.3.0; put 0.0.8; Python 3.10.12; qtbase 6.5.1; qtdeclarative 6.5.1; qtwayland 6.5.1; queue-microtask 1.2.3; quote 1.0.15; rand\_chacha- 0.2.2; rand\_core- 0.5.1; rand\_pcg 0.2.1; rand- 0.7.3; range-parser 1.2.1; raw-body 2.4.1; raw-body 2.5.1; rawpointer 0.2.1; rayon 1.5.1; rayon-core 1.9.1; rc9 2.1.0; rctree 0.4.0; reactivity 3.3.4; reactivity-transform 3.3.4; readable-stream 2.3.7; readable-stream 2.3.8; readable-stream 3.6.0; readdirp 3.6.0; reduce-flatten 2.0.0; reduce-flatten 3.0.1; regex 1.5.5; regex-syntax 0.6.25; remark-gfm 2.0.0; remark-lint 9.1.0; remark-lint-blockquote-indentation 3.1.0; remark-lint-checkbox-character-style 4.1.0; remark-lint-checkbox-content-indent 4.1.0; remark-lint-code-block-style 3.1.0; remark-lint-definition-spacing 3.1.0; remark-lint-fenced-code-flag 3.1.0; remark-lint-fenced-code-marker 3.1.0; remark-lint-file-extension 2.1.0; remark-lint-final-definition 3.1.0; remark-lint-final-newline 2.1.0; remark-lint-first-heading-level 3.1.0; remark-lint-hard-break-spaces 3.1.0; remark-lint-heading-style 3.1.0; remark-lint-list-item-bullet-indent 4.1.0; remark-lint-list-item-indent 3.1.0; remark-lint-maximum-line-length 3.1.1; remark-lint-no-auto-link-without-protocol 3.1.0; remark-lint-no-blockquote-without-marker 5.1.0; remark-lint-no-consecutive-blank-lines 4.1.1; remark-lint-no-duplicate-definitions 3.1.0; remark-lint-no-file-name-articles 2.1.0; remark-lint-no-file-name-consecutive-dashes 2.1.0; remark-lint-no-file-name-outer-dashes 2.1.0; remark-lint-no-heading-content-indent 4.1.0; remark-lint-no-heading-indent 4.1.0; remark-lint-no-inline-padding 4.1.0; remark-lint-no-literal-urls 3.1.0; remark-lint-no-multiple-toplevel-headings 3.1.0; remark-lint-no-shell-dollars 3.1.0; remark-lint-no-shortcut-reference-image 3.1.0; remark-lint-no-shortcut-reference-link 3.1.0; remark-lint-no-table-indentation 4.1.0; remark-lint-no-tabs 3.1.0; remark-lint-no-trailing-spaces 2.0.1; remark-lint-no-undefined-references 4.1.0; remark-lint-no-

unused-definitions 3.1.0; remark-lint-ordered-list-marker-style 3.1.0; remark-lint-prohibited-strings 3.0.0; remark-lint-rule-style 3.1.0; remark-lint-strong-marker 3.1.0; remark-lint-table-cell-padding 4.1.1; remark-lint-table-pipes 4.1.0; remark-lint-unordered-list-marker-style 3.1.0; remark-message-control 7.1.0; remark-parse 10.0.0; remark-preset-lint-node 3.2.0; remark-preset-lint-recommended 6.1.0; remark-stringify 10.0.0; resolve 1.8.1; resolve-path 1.4.0; resolve-uri 3.1.0; retry 0.12.0; reusify 1.0.4; rgb 0.8.32; rollup 2.79.1; run-parallel 1.2.0; run-postinsts 1; runtime-core 3.3.4; runtime-dom 3.3.4; rustc\_version 0.4.0; safe\_arch 0.6.0; safe-buffer 5.1.2; safe-buffer 5.2.1; safer-buffer 2.1.2; schema 3.0.0; scopeguard 1.1.0; scule 1.0.0; semver 1.0.6; send 0.18.0; serde 1.0.136; serve-index-75lb 2.0.1; serve-static 1.15.0; server-renderer 3.3.4; servo\_arc 0.1.1; set-array 1.1.2; shared 9.2.2; shared 3.3.4; side-channel 1.0.4; siphasher 0.3.10; slab 0.4.5; slash 3.0.0; slash 4.0.0; sliced 1.0.1; smallvec 1.8.0; smart-buffer 4.2.0; socks 2.6.1; socks-proxy-agent 5.0.1; socks-proxy-agent 6.1.0; sourcemap-codec 1.4.14; sourcemap-codec 1.4.15; spdx-expression-parse 3.0.1; split 0.3.3; sshpk 1.17.0; stable\_deref\_trait 1.2.0; standalone 7.22.5; statuses 1.5.0; statuses 2.0.1; std-env 3.3.3; stream-combiner 0.0.4; stream-log-stats 3.0.2; stream-slice 0.1.2; stream-via 1.0.4; streaming-json-stringify 3.1.0; string\_cache 0.8.3; string\_cache\_codegen 0.5.1; string\_decoder 1.1.1; string\_decoder 1.3.0; string-width 1.0.2; string-width 2.1.1; string-width 4.2.2; string-width 4.2.3; string-width 5.0.1; strip-ansi 3.0.1; strip-ansi 4.0.0; strip-ansi 6.0.0; strip-ansi 6.0.1; strip-ansi 7.0.1; strip-literal 1.0.1; strsim 0.8.0; strum 0.21.0; strum\_macros 0.21.1; supports-color 8.1.1; supports-color 5.5.0; supports-color 7.2.0; supports-color 9.0.2; syn 1.0.86; system-deps 6.0.2; system-deps- 3.2.0; systemd 1\_250.5; table-layout 1.0.2; tapable 1.1.3; template 7.22.5; tendril 0.4.2; text-table 0.2.0; textwrap 0.11.0; thenify 3.3.1; thenify-all 1.6.0; thiserror 1.0.30; thiserror-impl 1.0.30; three.js; through 2.3.8; tiff 4.3.0; time- 0.1.43; tiny-relative-date 1.3.0; tinybor 0.6.0; tinyvec 1.5.1; tinyvec\_macros 0.1.0; to-fast-properties 2.0.0; to-regexp-range 5.0.1; to-vfile 7.2.2; toidentifier 1.0.0; toidentifier 1.0.1; toml 0.5.8; trace-mapping 0.3.18; traverse 7.22.5; trough 2.0.2; ts-api-utils 1.0.2; tsscmp 1.0.6; type-is 1.6.18; typedarray-to-buffer 3.1.5; typenum 1.15.0; types 7.22.5; types 6.4.1; typical 4.0.0; typical 5.2.0; typical 6.0.1; ufo 1.1.2; unctx 2.3.1; unicode-bidi 0.3.7; unicode-normalization 0.1.19; unicode-segmentation 1.9.0; unicode-width 0.1.9; unicode-xid 0.2.2; unified 10.1.0; unified-lint-rule 1.0.6; unified-lint-rule 2.1.0; unified-message-control 4.0.0; unimport 1.3.0; unist 2.0.6; unist-util-generated 2.0.0; unist-util-is 5.1.1; unist-util-position 4.0.1; unist-util-stringify-position 3.0.0; unist-util-visit 3.1.0; unist-util-visit 4.1.0; unist-util-visit-parents 4.1.1; unist-util-visit-parents 5.1.0; unpipe 1.0.0; unplugin 1.3.1; untyped 1.3.2; update-browserslist-db 1.0.11; url 2.2.2; utf-8 0.7.6; utf8-decoder 0; util-deprecate 1.0.2; util-linux 2.37.4; utils-merge 1.0.1; uuid 3.4.0; uv 1.42.0; uvwasi 0.0.11; vary 1.1.2; vec\_map 0.8.2; verror 1.10.0; version\_check 0.9.4; version-compare 0.1.0; version-compare- 0.0.11; vfile 5.1.0; vfile-location 4.0.1; vfile-message 3.0.2; vfile-reporter 7.0.2; vfile-sort 3.0.0; vfile-statistics 2.0.0; vim 9.0.1592; visitor-keys 6.4.1; volk; vue 3.3.4; vue-demi 0.14.5; vue-devtools 9.2.2; vue-i18n 9.2.2; vue-router 4.2.2; vulkan-loader 1.2.182.0; walk-back 4.0.0; wayland 1.20.0; wayland-utils 1.0.0; wewidth 1.0.1; WebGradients; webpack-sources 3.2.3; webpack-virtual-modules 0.5.0; weston 10.0.2; when 3.7.8; wide 0.7.4; winapi 0.3.9; woff2 1.0.2; wordwrapjs 4.0.1; wpebackend-fdo 1.14.0; wrapped 1.0.1; ws 7.5.9; xkeyboard-config 2.35.1; xml2js 0.4.23; xml5ever 0.16.2; xmlbuilder 11.0.1; ylru 1.2.1; zstd 1.5.2; zwitch 2.0.2; zycore; zydis

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...

A damn useful little "backend" utility begun 950915 or thereabouts, as \*Hobbit\*'s first real stab at some sockets programming. Something that should have and indeed may have existed ten years ago, but never became a standard Unix utility. IMHO, "nc" could take its place right next to cat, cp, rm, mv, dd, ls, and all those other cryptic and Unix-like things.

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Applicable components: libtommath 1.2.0

Code ported from Thomas Ray Nicely's implementation of the BPSW test at <http://www.trnicely.net/misc/bpsw.html>

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Applicable components: xkeyboard-config 2.35.1

Norman keyboard layout symbols for xkb on X.Org Server 7.x  
Written 11/23/2012, revised 3/7/2013 by David Norman <http://normanlayout.info>  
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This implementation was written by Shane Day, and is also public domain.

This is a portable ANSI C implementation of MurmurHash3\_x86\_32 (Murmur3A) with support for progressive processing.

## **PNG Reference Library version 2 (libpng-2.0)**

Applicable components: libpng 1.6.39

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Applicable components: libarchive 3.6.2

PPMD codec common code

2010-03-12 : Igor Pavlov : Public domain

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Author: Paul Slotman (paul@wurtel.hobby.nl, paul@murphy.nl, paulS@toecompst.nl)

Modifications for MSVC: Yasuhiro Matsumoto

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This is an OpenSSL-compatible implementation of the RSA Data Security, Inc.

MD4 Message-Digest Algorithm (RFC 1320).

MD5 Message-Digest Algorithm (RFC 1321).

Homepage:

<http://openwall.info/wiki/people/solar/software/public-domain-source-code/md4>

<http://openwall.info/wiki/people/solar/software/public-domain-source-code/md5>

Author:

Alexander Peslyak, better known as Solar Designer <solar at openwall.com>

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MD4 (RFC-1320) message digest.  
Modified from MD5 code by Andrey Panin <pazke@donpac.ru>

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This differs from Colin Plumb's older public domain implementation in that no 32-bit integer data type is required, there's no compile-time endianness configuration, and the function prototypes match OpenSSL's. The primary goals are portability and ease of use.

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Feb 5, 2019 (c8c65c1e)

Modified to support optional argument using templates

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Originally Twofish for GPG

By Matthew Skala <mskala@ansuz.sooke.bc.ca>, July 26, 1998

256-bit key length added March 20, 1999

Some modifications to reduce the text size by Werner Koch, April, 1998

Ported to the kernel patch by Marc Mutz <Marc@Mutz.com>

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