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Table of Contents

1. Third Party Software Components 19
1.1 @electron/get 2.0.3 19
1.1.1 Copyrights 19
1.1.2 Licenses 19
1.2 @fast-csv/format 4.3.5 19
1.2.1 Copyrights 19
1.2.2 Licenses 19
1.3 @foliojs-fork/fontkit 1.9.2 19
1.3.1 Copyrights 19
1.3.2 Licenses 19
1.4 @foliojs-fork/linebreak 1.1.2 19
1.4.1 Copyrights 19
1.4.2 Licenses 19
1.5 @foliojs-fork/pdfkit 0.14.0 19
1.5.1 Copyrights 19
1.5.2 Licenses 19
1.6 @foliojs-fork/restructure 2.0.2 20
1.6.1 Copyrights 20
1.6.2 Licenses 20
1.7 @ngx-translate/core 15.0.0 20
1.7.1 Copyrights 20
1.7.2 Licenses 20
1.8 @ngx-translate/http-loader 8.0.0 20
1.8.1 Copyrights 20
1.8.2 Licenses 20
1.9 @popperjs/core 2.11.8 20
1.9.1 Copyrights 20
1.9.2 Licenses 20
1.10 @siemens/ngx-datatable 22.2.2 20
1.10.1 Copyrights 20
1.10.2 Licenses 20
1.11 @sindresorhus/is 4.6.0 20
1.11.1 Copyrights 20
1.11.2 Licenses 21
1.12 @szmarczak/http-timer 4.0.6 21
1.12.1 Copyrights 21
1.12.2 Licenses 21
1.13 AccessControl plug-in 1.0.8.3 21
1.13.1 Copyrights 21
1.13.2 Licenses 21
1.14 Angular 19.2.5 21
1.14.1 Copyrights 21
1.14.2 Licenses 21
1.15 angular/components 19.2.8 21
1.15.1 Copyrights 21
1.15.2 Licenses 22
1.16 archiver 5.3.2 22
1.16.1 Copyrights 22
1.16.2 Licenses 22
1.17 archiver-utils 2.1.0 22
1.17.1 Copyrights 22
1.17.2 Licenses 22

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1.18 archiver-utils 3.0.4 22
1.18.1 Copyrights 22
1.18.2 Licenses 22
1.19 ArgParse 2.0.1 22
1.19.1 Copyrights 22
1.19.2 Licenses 22
1.20 async 3.2.6 23
1.20.1 Copyrights 23
1.20.2 Licenses 23
1.21 Babel 7.28.0 23
1.21.1 Copyrights 23
1.21.2 Licenses 23
1.22 balanced-match 1.0.2 23
1.22.1 Copyrights 23
1.22.2 Licenses 23
1.23 base64-js 1.3.1 23
1.23.1 Copyrights 23
1.23.2 Licenses 23
1.24 base64-js 1.5.1 24
1.24.1 Copyrights 24
1.24.2 Licenses 24
1.25 big-integer 1.6.52 24
1.25.1 Copyrights 24
1.25.2 Licenses 24
1.26 binary 0.3.0 24
1.26.1 Licenses 24
1.27 bl 4.1.0 24
1.27.1 Copyrights 24
1.27.2 Licenses 24
1.28 bluebird 3.4.7 24
1.28.1 Copyrights 24
1.28.2 Licenses 24
1.29 boolean 3.2.0 25
1.29.1 Copyrights 25
1.29.2 Licenses 25
1.30 Bootstrap 5.1.3 25
1.30.1 Copyrights 25
1.30.2 Licenses 25
1.31 Bootstrap 5.3.3 25
1.31.1 Copyrights 25
1.31.2 Licenses 25
1.32 brace-expansion 1.1.12 25
1.32.1 Copyrights 25
1.32.2 Licenses 25
1.33 brace-expansion 2.0.2 25
1.33.1 Copyrights 25
1.33.2 Licenses 26
1.34 brotli 1.3.3 26
1.34.1 Copyrights 26
1.34.2 Licenses 26
1.35 buffer 5.7.1 26
1.35.1 Copyrights 26
1.35.2 Licenses 26
1.36 buffer-crc32 0.2.13 26
1.36.1 Copyrights 26

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1.36.2 Licenses ... 26
1.37 buffer-indexof-polyfill 1.0.2 ... 26
1.37.1 Copyrights ... 26
1.37.2 Licenses ... 26
1.38 buffers 0.1.1 ... 26
1.38.1 Licenses ... 26
1.39 cacheable-lookup 5.0.4 ... 26
1.39.1 Copyrights ... 26
1.39.2 Licenses ... 26
1.40 cacheable-request 7.0.4 ... 27
1.40.1 Copyrights ... 27
1.40.2 Licenses ... 27
1.41 call-bind 1.0.8 ... 27
1.41.1 Copyrights ... 27
1.41.2 Licenses ... 27
1.42 call-bind-apply-helpers 1.0.2 ... 27
1.42.1 Copyrights ... 27
1.42.2 Licenses ... 27
1.43 call-bound 1.0.4 ... 27
1.43.1 Copyrights ... 27
1.43.2 Licenses ... 27
1.44 chainsaw 0.1.0 ... 27
1.44.1 Copyrights ... 27
1.44.2 Licenses ... 27
1.45 Chromium 138.0.7204.35 ... 27
1.45.1 Licenses ... 27
1.46 clone 1.0.4 ... 35
1.46.1 Copyrights ... 35
1.46.2 Licenses ... 35
1.47 clone-response 1.0.3 ... 35
1.47.1 Copyrights ... 35
1.47.2 Licenses ... 35
1.48 compress-commons 4.1.2 ... 35
1.48.1 Copyrights ... 35
1.48.2 Licenses ... 35
1.49 concat-map 0.0.1 ... 35
1.49.1 Licenses ... 35
1.50 core-js 3.45.1 ... 36
1.50.1 Copyrights ... 36
1.50.2 Licenses ... 36
1.51 core-util-is 1.0.3 ... 36
1.51.1 Copyrights ... 36
1.51.2 Licenses ... 36
1.52 crc-32 1.2.2 ... 36
1.52.1 Copyrights ... 36
1.52.2 Licenses ... 36
1.53 crc32-stream 4.0.3 ... 36
1.53.1 Copyrights ... 36
1.53.2 Licenses ... 36
1.54 crypto-js 4.2.0 ... 36
1.54.1 Copyrights ... 36
1.54.2 Licenses ... 36
1.55 dayjs 1.11.13 ... 37
1.55.1 Copyrights ... 37
1.55.2 Licenses ... 37

© Siemens 2023-2025. All rights reserved.

1.56 debug 4.4.1 37
1.56.1 Copyrights 37
1.56.2 Licenses 37
1.57 decompress-response 6.0.0 37
1.57.1 Copyrights 37
1.57.2 Licenses 37
1.58 deep-equal 1.1.2 37
1.58.1 Copyrights 37
1.58.2 Licenses 37
1.59 defer-to-connect 2.0.1 37
1.59.1 Copyrights 37
1.59.2 Licenses 37
1.60 define-data-property 1.1.4 37
1.60.1 Copyrights 37
1.60.2 Licenses 38
1.61 define-properties 1.2.1 38
1.61.1 Copyrights 38
1.61.2 Licenses 38
1.62 detect-node 2.1.0 38
1.62.1 Copyrights 38
1.62.2 Licenses 38
1.63 dfa 1.2.0 38
1.63.1 Licenses 38
1.64 dunder-proto 1.0.1 38
1.64.1 Copyrights 38
1.64.2 Licenses 38
1.65 duplexer2 0.1.4 38
1.65.1 Copyrights 38
1.65.2 Licenses 38
1.66 ECharts 5.4.0 38
1.66.1 Copyrights 38
1.66.2 Acknowledgements 39
1.66.3 Licenses 39
1.67 ECharts 5.4.3 39
1.67.1 Copyrights 39
1.67.2 Acknowledgements 39
1.67.3 Licenses 39
1.68 electron 37.0.0 40
1.68.1 Copyrights 40
1.68.2 Licenses 41
1.69 electron-updater 6.3.9 41
1.69.1 Copyrights 41
1.69.2 Licenses 42
1.70 end-of-stream 1.4.5 42
1.70.1 Copyrights 42
1.70.2 Licenses 42
1.71 entities 6.0.1 42
1.71.1 Copyrights 42
1.71.2 Licenses 42
1.72 env-paths 2.2.1 42
1.72.1 Copyrights 42
1.72.2 Licenses 42
1.73 es-define-property 1.0.1 42
1.73.1 Copyrights 42
1.73.2 Licenses 42

© Siemens 2023-2025. All rights reserved.

1.74 es-errors 1.3.0 42
1.74.1 Copyrights 42
1.74.2 Licenses 43
1.75 es-object-atoms 1.1.1 43
1.75.1 Copyrights 43
1.75.2 Licenses 43
1.76 es6-error 4.1.1 43
1.76.1 Copyrights 43
1.76.2 Licenses 43
1.77 escape-string-regexp 4.0.0 43
1.77.1 Copyrights 43
1.77.2 Licenses 43
1.78 exceljs 4.4.0 43
1.78.1 Copyrights 43
1.78.2 Licenses 43
1.79 extract-zip 2.0.1 43
1.79.1 Copyrights 43
1.79.2 Licenses 43
1.80 fast-csv 4.3.6 44
1.80.1 Copyrights 44
1.80.2 Licenses 44
1.81 fd-slicer 1.1.0 44
1.81.1 Copyrights 44
1.81.2 Licenses 44
1.82 file-saver 2.0.5 44
1.82.1 Copyrights 44
1.82.2 Licenses 44
1.83 fs-constants 1.0.0 44
1.83.1 Copyrights 44
1.83.2 Licenses 44
1.84 fs.realpath 1.0.0 44
1.84.1 Copyrights 44
1.84.2 Licenses 44
1.85 fstream 1.0.12 44
1.85.1 Copyrights 44
1.85.2 Licenses 45
1.86 function-bind 1.1.2 45
1.86.1 Copyrights 45
1.86.2 Licenses 45
1.87 functions-have-names 1.2.3 45
1.87.1 Copyrights 45
1.87.2 Licenses 45
1.88 get-intrinsic 1.3.0 45
1.88.1 Copyrights 45
1.88.2 Licenses 45
1.89 get-proto 1.0.1 45
1.89.1 Copyrights 45
1.89.2 Licenses 45
1.90 get-stream 5.2.0 45
1.90.1 Copyrights 45
1.90.2 Licenses 45
1.91 glob 7.2.3 45
1.91.1 Copyrights 45
1.91.2 Licenses 46
1.92 global-agent 3.0.0 46

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1.92.1 Copyrights 46
1.92.2 Licenses 46
1.93 globalthis 1.0.4 46
1.93.1 Copyrights 46
1.93.2 Licenses 46
1.94 gopd 1.2.0 46
1.94.1 Copyrights 46
1.94.2 Licenses 46
1.95 got 11.8.6 46
1.95.1 Copyrights 46
1.95.2 Licenses 46
1.96 Graceful-FS 4.2.11 46
1.96.1 Copyrights 46
1.96.2 Licenses 46
1.97 gridstack 10.3.1 46
1.97.1 Copyrights 46
1.97.2 Licenses 47
1.98 has-property-descriptors 1.0.2 47
1.98.1 Copyrights 47
1.98.2 Licenses 47
1.99 has-symbols 1.1.0 47
1.99.1 Copyrights 47
1.99.2 Licenses 47
1.100 has-tostringtag 1.0.2 47
1.100.1 Copyrights 47
1.100.2 Licenses 47
1.101 hasown 2.0.2 47
1.101.1 Copyrights 47
1.101.2 Licenses 47
1.102 http-cache-semantics 4.2.0 47
1.102.1 Copyrights 47
1.102.2 Licenses 47
1.103 http2-wrapper 1.0.3 47
1.103.1 Copyrights 47
1.103.2 Licenses 48
1.104 iconv-lite 0.6.3 48
1.104.1 Copyrights 48
1.104.2 Licenses 48
1.105 ieee754 1.2.1 48
1.105.1 Copyrights 48
1.105.2 Licenses 48
1.106 immediate 3.0.6 48
1.106.1 Copyrights 48
1.106.2 Licenses 48
1.107 inflight 1.0.6 48
1.107.1 Copyrights 48
1.107.2 Licenses 48
1.108 inherits 2.0.4 48
1.108.1 Copyrights 48
1.108.2 Licenses 48
1.109 is-arguments 1.2.0 48
1.109.1 Copyrights 48
1.109.2 Licenses 49
1.110 is-date-object 1.1.0 49
1.110.1 Copyrights 49

© Siemens 2023-2025. All rights reserved.

1.110.2 Licenses 49
1.111 is-regex 1.2.1 49
1.111.1 Copyrights 49
1.111.2 Licenses 49
1.112 isarray 1.0.0 49
1.112.1 Copyrights 49
1.112.2 Licenses 49
1.113 jQuery 3.7.1 49
1.113.1 Copyrights 49
1.113.2 Licenses 49
1.114 js-yaml 4.1.0 49
1.114.1 Copyrights 49
1.114.2 Licenses 49
1.115 json-buffer 3.0.1 50
1.115.1 Copyrights 50
1.115.2 Licenses 50
1.116 json-stringify-safe 5.0.1 50
1.116.1 Copyrights 50
1.116.2 Licenses 50
1.117 JSZip 3.10.1 50
1.117.1 Copyrights 50
1.117.2 Acknowledgements 50
1.117.3 Licenses 50
1.118 keyv 4.5.4 51
1.118.1 Copyrights 51
1.118.2 Licenses 51
1.119 lazy-val 1.0.5 51
1.119.1 Licenses 51
1.120 lazystream 1.0.1 51
1.120.1 Copyrights 51
1.120.2 Licenses 51
1.121 lie 3.3.0 51
1.121.1 Copyrights 51
1.121.2 Licenses 51
1.122 listenercount 1.0.1 51
1.122.1 Copyrights 51
1.122.2 Licenses 51
1.123 Lodash 4.17.21_ 51
1.123.1 Copyrights 51
1.123.2 Acknowledgements 52
1.123.3 Licenses 52
1.124 long 4.0.0 52
1.124.1 Copyrights 52
1.124.2 Licenses 52
1.125 lowercase-keys 2.0.0 52
1.125.1 Copyrights 52
1.125.2 Licenses 52
1.126 matcher 3.0.0 52
1.126.1 Copyrights 52
1.126.2 Licenses 52
1.127 math-intrinsics 1.1.0 52
1.127.1 Copyrights 52
1.127.2 Licenses 53
1.128 Microsoft.AspNet.SignalR 2.4.2 53
1.128.1 Copyrights 53

1.128.2 Licenses ... 53
1.129 mimic-response 1.0.1 ... 53
1.129.1 Copyrights ... 53
1.129.2 Licenses ... 53
1.130 mimic-response 3.1.0 ... 53
1.130.1 Copyrights ... 53
1.130.2 Licenses ... 53
1.131 minimatch 3.1.2 ... 53
1.131.1 Copyrights ... 53
1.131.2 Licenses ... 53
1.132 minimatch 5.1.6 ... 54
1.132.1 Copyrights ... 54
1.132.2 Licenses ... 54
1.133 minimist 1.2.8 ... 54
1.133.1 Licenses ... 54
1.134 mkdirp 0.5.6 ... 54
1.134.1 Copyrights ... 54
1.134.2 Licenses ... 54
1.135 ms 2.1.3 ... 54
1.135.1 Copyrights ... 54
1.135.2 Licenses ... 54
1.136 ngx-bootstrap 19.0.2 ... 54
1.136.1 Copyrights ... 54
1.136.2 Licenses ... 54
1.137 ngx-cookie-service 19.1.2 ... 54
1.137.1 Copyrights ... 54
1.137.2 Licenses ... 55
1.138 ngx-formly 6.3.0 ... 55
1.138.1 Copyrights ... 55
1.138.2 Licenses ... 55
1.139 node-fs-extra 10.1.0 ... 55
1.139.1 Copyrights ... 55
1.139.2 Licenses ... 55
1.140 node-fs-extra 8.1.0 ... 55
1.140.1 Copyrights ... 55
1.140.2 Licenses ... 55
1.141 node-jsonfile 4.0.0 ... 55
1.141.1 Copyrights ... 55
1.141.2 Licenses ... 55
1.142 node-jsonfile 6.2.0 ... 55
1.142.1 Copyrights ... 55
1.142.2 Licenses ... 56
1.143 Node.js 22.16.0 ... 56
1.143.1 Copyrights ... 56
1.143.2 Acknowledgements ... 62
1.143.3 Licenses ... 63
1.144 normalize-path 3.0.0 ... 65
1.144.1 Copyrights ... 65
1.144.2 Licenses ... 65
1.145 normalize-url 6.1.0 ... 65
1.145.1 Copyrights ... 65
1.145.2 Licenses ... 65
1.146 object-is 1.1.6 ... 65
1.146.1 Copyrights ... 65
1.146.2 Licenses ... 65

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1.147 object-keys 1.1.1 65
1.147.1 Copyrights 65
1.147.2 Licenses 65
1.148 once 1.4.0 65
1.148.1 Copyrights 65
1.148.2 Licenses 65
1.149 p-cancelable 2.1.1 66
1.149.1 Copyrights 66
1.149.2 Licenses 66
1.150 pako 0.2.9 66
1.150.1 Copyrights 66
1.150.2 Licenses 66
1.151 pako 1.0.11 66
1.151.1 Copyrights 66
1.151.2 Licenses 66
1.152 parse5 7.3.0 66
1.152.1 Copyrights 66
1.152.2 Licenses 66
1.153 path-is-absolute 1.0.1 66
1.153.1 Copyrights 66
1.153.2 Licenses 66
1.154 pdfmake 0.2.12 67
1.154.1 Copyrights 67
1.154.2 Licenses 67
1.155 pend 1.2.0 67
1.155.1 Copyrights 67
1.155.2 Licenses 67
1.156 png-js 1.0.0 67
1.156.1 Copyrights 67
1.156.2 Licenses 67
1.157 process-nextick-args 2.0.1 67
1.157.1 Copyrights 67
1.157.2 Licenses 67
1.158 progress 2.0.3 68
1.158.1 Copyrights 68
1.158.2 Licenses 68
1.159 pump 3.0.3 68
1.159.1 Copyrights 68
1.159.2 Licenses 68
1.160 quick-lru 5.1.1 68
1.160.1 Copyrights 68
1.160.2 Licenses 68
1.161 readable-stream 2.3.8 68
1.161.1 Copyrights 68
1.161.2 Licenses 68
1.162 readable-stream 3.6.2 68
1.162.1 Copyrights 68
1.162.2 Licenses 68
1.163 readdir-glob 1.1.3 68
1.163.1 Copyrights 68
1.163.2 Licenses 69
1.164 regexp.prototype.flags 1.5.4 69
1.164.1 Copyrights 69
1.164.2 Licenses 69
1.165 resolve-alpn 1.2.1 69

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1.165.1 Copyrights 69
1.165.2 Licenses 69
1.166 responselike 2.0.1 69
1.166.1 Copyrights 69
1.166.2 Licenses 69
1.167 rimraf 2.7.1 69
1.167.1 Copyrights 69
1.167.2 Licenses 69
1.168 roarr 2.15.4 69
1.168.1 Copyrights 69
1.168.2 Licenses 69
1.169 rxjs 7.8.0 70
1.169.1 Copyrights 70
1.169.2 Licenses 70
1.170 safe-buffer 5.1.2 70
1.170.1 Copyrights 70
1.170.2 Licenses 70
1.171 safe-buffer 5.2.1 70
1.171.1 Licenses 70
1.172 Safer-Buffer 2.1.2 70
1.172.1 Copyrights 70
1.172.2 Licenses 70
1.173 sax 1.4.1 70
1.173.1 Copyrights 70
1.173.2 Licenses 70
1.174 saxes 5.0.1 71
1.174.1 Copyrights 71
1.174.2 Licenses 71
1.175 semver 6.3.1 71
1.175.1 Copyrights 71
1.175.2 Licenses 71
1.176 semver 7.7.2 71
1.176.1 Copyrights 71
1.176.2 Licenses 71
1.177 semver-compare 1.0.0 71
1.177.1 Licenses 71
1.178 serialize-error 7.0.1 71
1.178.1 Copyrights 71
1.178.2 Licenses 71
1.179 set-function-length 1.2.2 72
1.179.1 Copyrights 72
1.179.2 Licenses 72
1.180 set-function-name 2.0.2 72
1.180.1 Copyrights 72
1.180.2 Licenses 72
1.181 setimmediate 1.0.5 72
1.181.1 Copyrights 72
1.181.2 Licenses 72
1.182 sprintf-js 1.1.3 72
1.182.1 Copyrights 72
1.182.2 Licenses 72
1.183 string_decoder 1.1.1 72
1.183.1 Copyrights 72
1.183.2 Licenses 72
1.184 string_decoder 1.3.0 72

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1.184.1 Copyrights ... 72
1.184.2 Licenses ... 72
1.185 sumchecker 3.0.1 ... 73
1.185.1 Copyrights ... 73
1.185.2 Licenses ... 73
1.186 tar-stream 2.2.0 ... 73
1.186.1 Copyrights ... 73
1.186.2 Licenses ... 73
1.187 tiny-inflate 1.0.3 ... 73
1.187.1 Copyrights ... 73
1.187.2 Licenses ... 73
1.188 tiny-typed-emitter 2.1.0 ... 73
1.188.1 Copyrights ... 73
1.188.2 Licenses ... 73
1.189 tmp 0.2.3 ... 73
1.189.1 Copyrights ... 73
1.189.2 Licenses ... 73
1.190 traverse 0.3.9 ... 73
1.190.1 Copyrights ... 73
1.190.2 Licenses ... 74
1.191 tslib 2.3.0 ... 74
1.191.1 Copyrights ... 74
1.191.2 Licenses ... 74
1.192 tslib 2.8.1 ... 74
1.192.1 Copyrights ... 74
1.192.2 Licenses ... 74
1.193 type-fest 0.13.1 ... 74
1.193.1 Copyrights ... 74
1.193.2 Acknowledgements ... 74
1.193.3 Licenses ... 74
1.194 unicode-properties 1.4.1 ... 74
1.194.1 Licenses ... 74
1.195 unicode-trie 2.0.0 ... 74
1.195.1 Licenses ... 74
1.196 universalify 0.1.2 ... 75
1.196.1 Copyrights ... 75
1.196.2 Licenses ... 75
1.197 universalify 2.0.1 ... 75
1.197.1 Copyrights ... 75
1.197.2 Licenses ... 75
1.198 unzipper 0.10.14 ... 75
1.198.1 Copyrights ... 75
1.198.2 Licenses ... 75
1.199 util-deprecate 1.0.2 ... 75
1.199.1 Copyrights ... 75
1.199.2 Licenses ... 75
1.200 uuid 8.3.2 ... 75
1.200.1 Copyrights ... 75
1.200.2 Licenses ... 76
1.201 wrappy 1.0.2 ... 76
1.201.1 Copyrights ... 76
1.201.2 Licenses ... 76
1.202 xhr2 0.2.1 ... 76
1.202.1 Copyrights ... 76
1.202.2 Licenses ... 76

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1.203 xmlchars 2.2.0 76
1.203.1 Copyrights 76
1.203.2 Licenses 76
1.204 xmldoc 1.3.0 76
1.204.1 Copyrights 76
1.204.2 Licenses 76
1.205 xregexp 5.1.1 76
1.205.1 Copyrights 76
1.205.2 Licenses 76
1.206 yauzl 2.10.0 77
1.206.1 Copyrights 77
1.206.2 Licenses 77
1.207 zip-stream 4.1.1 77
1.207.1 Copyrights 77
1.207.2 Licenses 77
1.208 zone.js 0.15.0 77
1.208.1 Copyrights 77
1.208.2 Licenses 78
1.209 zrender 5.4.0 78
1.209.1 Copyrights 78
1.209.2 Licenses 78
1.210 zrender 5.4.4 78
1.210.1 Copyrights 78
1.210.2 Licenses 78
2. Licenses 78
2.1 MIT License (1) 78
2.2 Adobe Postscript AFM License (2) 79
2.3 MIT (3) 79
2.4 BSD-3-Clause (4) 79
2.5 zlib License (5) 80
2.6 Apache License 2.0 (6) 80
2.7 Python-2.0 (7) 83
2.8 BSD-3-Clause (8) 87
2.9 Unlicense (9) 87
2.10 BSD-3-Clause (Google) (10) 87
2.11 2-dim General Purpose FFT (Fast Fourier/Cosine/Sine Transform) Package (11) 88
2.12 Abseil (12) 88
2.13 Android NDK (13) 91
2.14 Android SDK (14) 249
2.15 Animal Sniffer Annotations (15) 252
2.16 ARCore SDK (16) 253
2.17 ARM_NEON_2_x86_SSE (17) 255
2.18 AXE-CORE Accessibility Audit (18) 256
2.19 Blackmagic DeckLink SDK - Mac (19) 261
2.20 blink HTMLTokenizer (20) 262
2.21 Braille Translation Library (21) 262
2.22 Brotli (22) 263
2.23 BSDiff (23) 263
2.24 bspatch (24) 263
2.25 C++ port of zxcvbn, an advanced password strength estimation library. (25) 264
2.26 Cardboard SDK (26) 264
2.27 CF (27) 269
2.28 Checked in build outputs generated on Windows. (28) 274
2.29 Checker Qual (29) 274
2.30 Checker Util (30) 281

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2.31 Chrome built-in TTS extension WASM bindings (31) ... 281
2.32 ChromeVox (32) ... 281
2.33 ChromiumUpdater (33) ... 282
2.34 CityHash (34) ... 282
2.35 Closure Library (35) ... 282
2.36 Closure Library (36) ... 286
2.37 Compact Language Detector v3 (37) ... 288
2.38 Core ML Tools (38) ... 291
2.39 core-common (39) ... 292
2.40 d3 (40) ... 498
2.41 dav1d is an AV1 decoder :) (41) ... 498
2.42 dom-distiller-js (42) ... 499
2.43 EasyList (43) ... 502
2.44 Eigen (44) ... 507
2.45 Eigen (45) ... 510
2.46 Emoji (46) ... 516
2.47 etc1 (47) ... 521
2.48 FarmHash (48) ... 522
2.49 feature-delivery (49) ... 522
2.50 firebase-iid (50) ... 737
2.51 firebase-iid-interop (51) ... 788
2.52 firebase-measurement-connector (52) ... 813
2.53 FlatBuffers (53) ... 934
2.54 FP16 (54) ... 937
2.55 Fuchsia GN SDK (55) ... 938
2.56 Fuse.js (56) ... 938
2.57 getopt (57) ... 941
2.58 Google Chrome Content Analysis Connector Agent SDK (58) ... 941
2.59 Google Double Conversion (59) ... 942
2.60 google-glog's symbolization library (60) ... 942
2.61 googleid (61) ... 942
2.62 grpc (62) ... 1169
2.63 Headers for DirectX APIs. (63) ... 1178
2.64 Headers for ONNX Runtime C/C++ APIs (64) ... 1179
2.65 Headers for the Windows 10 WebAuthn API (webauthn.dll) (65) ... 1179
2.66 hunspell (66) ... 1180
2.67 hyphenation-patterns (67) ... 1187
2.68 IAccessible2 COM interfaces for accessibility (68) ... 1229
2.69 inspector protocol (69) ... 1230
2.70 ipcz (70) ... 1231
2.71 ISimpleDOM COM interfaces for accessibility (71) ... 1231
2.72 JNI Zero (72) ... 1232
2.73 jsoncpp (73) ... 1232
2.74 jszip (74) ... 1233
2.75 Khronos header files (75) ... 1233
2.76 Lens Protos (76) ... 1234
2.77 libbrlapi (77) ... 1235
2.78 libei (78) ... 1242
2.79 libipp (79) ... 1243
2.80 libjingle XMPP and xmllite libraries (80) ... 1243
2.81 libpng (81) ... 1244
2.82 libsecret (82) ... 1246
2.83 Libtess2 (83) ... 1253
2.84 libutf (84) ... 1254
2.85 libx11 (85) ... 1255

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2.86 libxcb-keysyms (86) 1255
2.87 libxml (87) 1256
2.88 libxslt (88) 1256
2.89 libzip (89) 1257
2.90 Lit (90) 1257
2.91 Lottie Web (91) 1258
2.92 lottie_ios (92) 1259
2.93 LZMA SDK (93) 1262
2.94 Material Components for Android (94) 1262
2.95 MediaPipe (95) 1267
2.96 mesa_headers (96) 1270
2.97 Metrics Protos (97) 1271
2.98 minigbm (98) 1272
2.99 mitt (99) 1272
2.100 modp base64 decoder (100) 1273
2.101 Mozilla Personal Security Manager (101) 1273
2.102 Mozilla Personal Security Manager (102) 1274
2.103 Mozilla Windows Cert code (103) 1274
2.104 Netscape Portable Runtime (NSPR) (104) 1280
2.105 Network Security Services (NSS) (105) 1281
2.106 newlib-extras (106) 1287
2.107 Omnibox Protos (107) 1295
2.108 One Euro Filter (108) 1296
2.109 opus (109) 1296
2.110 OTS (OpenType Sanitizer) (110) 1297
2.111 Paul Hsieh's SuperFastHash (111) 1297
2.112 PFFFT: a pretty fast FFT. (112) 1298
2.113 play-services-auth (113) 1299
2.114 play-services-auth-api-phone (114) 1417
2.115 play-services-auth-base (115) 1515
2.116 play-services-auth-blockstore (116) 1633
2.117 play-services-cast (117) 1728
2.118 play-services-cast-framework (118) 1832
2.119 play-services-clearcut (119) 1957
2.120 play-services-fido (120) 1979
2.121 play-services-gcm (121) 2104
2.122 play-services-iid (122) 2123
2.123 play-services-instantapps (123) 2147
2.124 play-services-location (124) 2187
2.125 play-services-vision (125) 2295
2.126 Polymer (126) 2323
2.127 Protected Content Interface for libva (127) 2323
2.128 Protocol Buffers (128) 2324
2.129 Protocol Buffers (javascript) (129) 2324
2.130 PSM (Private Set Membership) client side (130) 2325
2.131 Puffin deterministic deflate recompressor (131) 2325
2.132 rapidhash (132) 2325
2.133 re2 - an efficient, principled regular expression library (133) 2326
2.134 Recurrent neural network for audio noise reduction (134) 2326
2.135 ScreenAI Library (135) 2327
2.136 Selenium Atoms (136) 2571
2.137 Sentencepiece (137) 2574
2.138 simdutf unicode transcoder (138) 2578
2.139 Simple Homomorphic Encryption Library with Lattices (139) 2579
2.140 simplejson (140) 2582

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2.141 Sizzle (141) 2582
2.142 SMHasher (142) 2582
2.143 sqlite (143) 2583
2.144 Tamachiyomi (144) 2583
2.145 TensorFlow Lite (145) 2583
2.146 TensorFlow Lite Support (146) 2586
2.147 TensorFlow Models (147) 2590
2.148 TensorFlow Text (148) 2593
2.149 The USB ID Repository (149) 2596
2.150 transport-runtime (150) 2596
2.151 Unicode Common Locale Data Repository (151) 2604
2.152 UnRAR source for decompressing .RAR and other files. (152) 2605
2.153 URL Pattern Library (153) 2606
2.154 url_parse (154) 2606
2.155 v4l-utils (155) 2607
2.156 V8 fork of fdlibm (156) 2615
2.157 WebKit (157) 2615
2.158 Wicked Good XPath (158) 2630
2.159 Windows Template Library (WTL) (159) 2630
2.160 woff2 (160) 2631
2.161 x11proto (161) 2631
2.162 xdg-user-dirs (162) 2632
2.163 xnu (163) 2632
2.164 XZ Utils (164) 2638
2.165 zlib (165) 2639
2.166 zod (166) 2639
2.167 BSD-2-Clause (167) 2640
2.168 BSD-3-Clause (168) 2640
2.169 BSD-3-Clause (169) 2641
2.170 0BSD (170) 2641
2.171 BSD-3-Clause (171) 2641
2.172 BSD-3-Clause (172) 2642
2.173 Public-domain (173) 2642
2.174 BSD 2-Clause "Simplified" License (174) 2642
2.175 BSD-2-Clause (175) 2642
2.176 ISC-Author (176) 2643
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2.178 ISC (178) 2643
2.179 BSD-3-Clause (179) 2644
2.180 MIT or GPL-3.0 (180) 2644
2.181 Zlib (181) 2644
2.182 Unicode-3.0 (182) 2644
2.183 NAIST-2003 (183) 2645
2.184 BSD-3-Clause (184) 2646
2.185 bzip2-1.0.8 (185) 2646
2.186 Apache-2.0 WITH LLVM-exception (186) 2647
2.187 BlueOak-1.0.0 (187) 2650
2.188 ISC (188) 2651
2.189 Info-ZIP (189) 2652
2.190 Unicode-TOU (190) 2652
2.191 BSD-2-Clause (191) 2655
2.192 BSD-3-Clause (192) 2655
2.193 BSD-3-Clause (193) 2656
2.194 BSD-3-Clause (194) 2656
2.195 ICU (195) 2657

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2.199 Public-domain (199) 2662
2.200 Public-domain (200) 2662
2.201 Public-domain (201) 2662
2.202 Public-domain (202) 2662
2.203 Public-domain (203) 2664
2.204 Public-domain (204) 2665
2.205 Public-domain (205) 2665
2.206 Public-domain (206) 2665
2.207 Public-domain (207) 2665
2.208 MIT-style (208) 2665
2.209 MIT-style (209) 2665
2.210 MIT-style (210) 2665
2.211 MIT-style (211) 2666
2.212 MIT-style (212) 2666
2.213 Dual-license (213) 2666
2.214 Dual-license (214) 2666
2.215 Dual-license (215) 2666
2.216 Dual-license (216) 2666
2.217 Dual-license (217) 2666
2.218 Dual-license (218) 2667
2.219 CC0-1.0 (219) 2667
2.220 ISC-style (220) 2668
2.221 ISC-style (221) 2669
2.222 ISC (222) 2669
2.223 BSD-3-Clause (223) 2669
2.224 BSD-3-Clause (224) 2670
2.225 BSD-3-Clause (225) 2670
2.226 BSD-3-Clause (226) 2670
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2.229 BSD-3-Clause (229) 2672
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2.232 BSD-3-Clause (232) 2673
2.233 BSD-3-Clause (233) 2673
2.234 GPL-2.0-only (234) 2674
2.235 BSD-2-Clause (235) 2678
2.236 BSD-2-Clause (236) 2679
2.237 BSD-2-Clause (237) 2679
2.238 BSD-2-Clause (238) 2679
2.239 X11 (239) 2680
2.240 BSL-1.0 (240) 2680
2.241 Artistic-2.0 (241) 2680
2.242 Python-2.0 (242) 2683
2.243 MPL-2.0 (243) 2686
2.244 LGPL-2.1-or-later (244) 2690
2.245 CC0-1.0 (245) 2690
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2.247 Dual License Notice - MIT or CC0-1.0 (247) 2690
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Apache License 2.0 (6)
ChromeVox (32)
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Apache License 2.0 (6)
Apache License 2.0 (6)
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Apache License 2.0 (6)
Apache License 2.0 (6)
Core ML Tools (38)
core-common (39)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
d3 (40)
Apache License 2.0 (6)
CF (27)
CF (27)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
dav1d is an AV1 decoder :) (41)
Apache License 2.0 (6)

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Apache License 2.0 (6)
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EasyList (43)
Eigen (44)
Eigen (45)
Emoji (46)
Apache License 2.0 (6)
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Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
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Apache License 2.0 (6)
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feature-delivery (49)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
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firebase-iid-interop (51)
Apache License 2.0 (6)
Apache License 2.0 (6)
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Apache License 2.0 (6)
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FP16 (54)
Apache License 2.0 (6)
Apache License 2.0 (6)
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Fuse.js (56)
Apache License 2.0 (6)
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Apache License 2.0 (6)
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Apache License 2.0 (6)
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Closure Library (36)
Google Double Conversion (59)
Closure Library (35)
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googleid (61)
Apache License 2.0 (6)
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Apache License 2.0 (6)

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Headers for ONNX Runtime C/C++ APIs (64)
Headers for the Windows 10 WebAuthn API (webauthn.dll) (65)
Apache License 2.0 (6)
hunspell (66)
hyphenation-patterns (67)
IAccessible2 COM interfaces for accessibility (68)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
inspector protocol (69)
Closure Library (36)
Apache License 2.0 (6)
ipcz (70)
ISimpleDOM COM interfaces for accessibility (71)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
JNI Zero (72)
jsoncpp (73)
Apache License 2.0 (6)
jszip (74)
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Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
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Apache License 2.0 (6)
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Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
Lens Protos (76)
Apache License 2.0 (6)
libbrlapi (77)
libei (78)
libipp (79)
libjingle XMPP and xmllite libraries (80)
libpng (81)
libsecret (82)
Libtess2 (83)
libsecret (82)
libutf (84)
libx11 (85)
libxcb-keysyms (86)
libxml (87)
libxslt (88)
libzip (89)
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Apache License 2.0 (6)
Lottie Web (91)
lottie_ios (92)
LZMA SDK (93)
Apache License 2.0 (6)
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Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
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Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
MediaPipe (95)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
mesa_headers (96)
Apache License 2.0 (6)
Metrics Protos (97)
minigbm (98)
mitt (99)
Apache License 2.0 (6)
modp base64 decoder (100)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
Mozilla Personal Security Manager (101)
Mozilla Personal Security Manager (102)
Mozilla Windows Cert code (103)
Apache License 2.0 (6)
Apache License 2.0 (6)

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Apache License 2.0 (6)
Apache License 2.0 (6)
Netscape Portable Runtime (NSPR) (104)
Network Security Services (NSS) (105)
newlib-extras (106)
Apache License 2.0 (6)
Omnibox Protos (107)
One Euro Filter (108)
opus (109)
OTS (OpenType Sanitizer) (110)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
Paul Hsieh's SuperFastHash (111)
PFFFT: a pretty fast FFT. (112)
play-services-auth (113)
play-services-auth-api-phone (114)
play-services-auth-base (115)
play-services-auth-blockstore (116)
play-services-auth-api-phone (114)
play-services-auth-api-phone (114)
play-services-cast (117)
play-services-cast-framework (118)
play-services-clearcut (119)
play-services-auth-blockstore (116)
play-services-fido (120)
firebase-iid-interop (51)
play-services-gcm (121)
play-services-auth-api-phone (114)
play-services-iid (122)
play-services-instantapps (123)
play-services-location (124)
play-services-clearcut (119)
firebase-iid-interop (51)
play-services-auth-api-phone (114)
play-services-vision (125)
play-services-vision (125)
Polymer (126)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
Protected Content Interface for libva (127)
Protocol Buffers (128)
Protocol Buffers (javascript) (129)
Protocol Buffers (128)
PSM (Private Set Membership) client side (130)
Puffin deterministic deflate recompressor (131)
rapidhash (132)
re2 - an efficient, principled regular expression library (133)

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Recurrent neural network for audio noise reduction (134)
Apache License 2.0 (6)
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Closure Library (36)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
ScreenAI Library (135)
Checked in build outputs generated on Windows. (28)
Apache License 2.0 (6)
Selenium Atoms (136)
Sentencepiece (137)
simdutf unicode transcoder (138)
Simple Homomorphic Encryption Library with Lattices (139)
simplejson (140)
Sizzle (141)
Apache License 2.0 (6)
SMHasher (142)
libsecret (82)
Closure Library (36)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
sqlite (143)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
Tamachiyomi (144)
TensorFlow Lite (145)
TensorFlow Lite Support (146)
TensorFlow Models (147)
TensorFlow Text (148)
Apache License 2.0 (6)
Checked in build outputs generated on Windows. (28)
Apache License 2.0 (6)
The USB ID Repository (149)
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Material Components for Android (94)
transport-runtime (150)
Apache License 2.0 (6)
Apache License 2.0 (6)
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UnRAR source for decompressing .RAR and other files. (152)
Apache License 2.0 (6)
URL Pattern Library (153)
url_parse (154)
v4l-utils (155)
V8 fork of fdlibm (156)
Apache License 2.0 (6)
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Wicked Good XPath (158)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
Apache License 2.0 (6)
Windows Template Library (WTL) (159)
woff2 (160)
x11proto (161)
xdg-user-dirs (162)
xnu (163)
Apache License 2.0 (6)
Apache License 2.0 (6)
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XZ Utils (164)
zlib (165)
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2.7 Python-2.0 (7)

A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release from	Derived	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Android adaptation and tweak by Jim Huang <jserv@0xlab.org>.

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Theo de Raadt <deraadt@openbsd.org> came up with the idea of using
such a mathematical system to generate more random (yet non-repeating)
ids to solve the resolver/named problem. But Niels designed the
actual system based on the constraints.

Later modified by Damien Miller to wrap the LCG output in a 15-bit
permutation generator based on a Luby-Rackoff block cipher. This
ensures the output is non-repeating and preserves the MSB twiddle
trick, but makes it more resistant to LCG prediction.

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2.15 Animal Sniffer Annotations (15)

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2.17 ARM_NEON_2_x86_SSE (17)

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2.19 Blackmagic DeckLink SDK - Mac (19)

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2.20 blink HTMLTokenizer (20)

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2.21 Braille Translation Library (21)

```
(Copied from src/liblouis/liblouis.h.in)

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```

```
*/
```

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```
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2.24 bspatch (24)

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2.25 C++ port of zxcvbn, an advanced password strength estimation library. (25)

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2.26 Cardboard SDK (26)

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2.28 Checked in build outputs generated on Windows. (28)

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2.30 Checker Util (30)

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2.31 Chrome built-in TTS extension WASM bindings (31)

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2.34 CityHash (34)

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2.38 Core ML Tools (38)

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2.40 d3 (40)

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2.41 dav1d is an AV1 decoder :) (41)

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2.42 dom-distiller-js (42)

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2.46 Emoji (46)

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2.47 etc1 (47)

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2.48 FarmHash (48)

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2.49 feature-delivery (49)

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Last modified: September 24, 2020

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April 10, 2009

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2.51 firebase-iid-interop (51)

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December 9, 2016

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2.52 firebase-measurement-connector (52)

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2.54 FP16 (54)

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2.55 Fuchsia GN SDK (55)

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2.56 Fuse.js (56)

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2.57 getopt (57)

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2.58 Google Chrome Content Analysis Connector Agent SDK (58)

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2.60 google-glog's symbolization library (60)

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2.61 googleid (61)

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Android SDK Platforms:

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Language: Russian (ru RU).
Origin: Based on the TeX hyphenation tables
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Author: conversion author is Peter Novodvorsky <nidd@altlinux.ru>

This hyphenation dictionary is based on syllable matching patterns and
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HYPH ru RU hyph_ru_RU

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2.68 IAccessible2 COM interfaces for accessibility (68)

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2.69 inspector protocol (69)

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2.70 ipcz (70)

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2.71 ISimpleDOM COM interfaces for accessibility (71)

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2.72 JNI Zero (72)

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2.73 jsoncpp (73)

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2.74 jszip (74)

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2.75 Khronos header files (75)

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2.76 Lens Protos (76)

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2.77 libbrlapi (77)

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2.78 libei (78)

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2.79 libipp (79)

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2.80 libjingle XMPP and xmllite libraries (80)

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2.81 libpng (81)

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2.82 libsecret (82)

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2.83 Libtess2 (83)

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2.84 libutf (84)

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2.86 libxcb-keysyms (86)

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2.87 libxml (87)

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2.91 Lottie Web (91)

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##

BezierEasing - use bezier curve for transition easing function
by Gaëtan Renaudeau 2014 - 2015 - MIT License

Credits: is based on Firefox's nsSMILKeySpline.cpp
Usage:
var spline = BezierEasing([0.25, 0.1, 0.25, 1.0])
spline.get(x) => returns the easing value | x must be in [0, 1] range

2.92 lottie_ios (92)

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2.94 Material Components for Android (94)

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December 9, 2016

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2.100 modp base64 decoder (100)

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2.104 Netscape Portable Runtime (NSPR) (104)

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*
```

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2.105 Network Security Services (NSS) (105)

```
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2.106 newlib-extras (106)

```
README for newlib-2.0.0 release
(mostly cribbed from the README in the gdb-4.13 release)

This is `newlib', a simple ANSI C library, math library, and collection
of board support packages.

The newlib and libgloss subdirectories are a collection of software from
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Unpacking and Installation -- quick overview
==========================
```

When you unpack the newlib-2.0.0.tar.gz file, you'll find a directory called `newlib-2.0.0', which contains:

```
COPYING          config/          install-sh*      mpw-configure
COPYING.LIB      config-ml.in     libgloss/        mpw-install
COPYING.NEWLIB   config.guess*    mkinstalldirs*   newlib/
CYGNUS           config.sub*      move-if-change*  symlink-tree*
ChangeLog        configure*       mpw-README       texinfo/
Makefile.in      configure.in     mpw-build.in
README           etc/             mpw-config.in
```

To build NEWLIB, you must follow the instructions in the section entitled "Compiling NEWLIB".

This will configure and build all the libraries and crt0 (if one exists). If `configure' can't determine your host system type, specify one as its argument, e.g., sun4 or sun4sol2. NEWLIB is most often used in cross environments.

NOTE THAT YOU MUST HAVE ALREADY BUILT AND INSTALLED GCC and BINUTILS.

More Documentation

Newlib documentation is available on the net via:
http://sourceware.org/newlib/docs.html

All the documentation for NEWLIB comes as part of the machine-readable distribution. The documentation is written in Texinfo format, which is a documentation system that uses a single source file to produce both on-line information and a printed manual. You can use one of the Info formatting commands to create the on-line version of the documentation and TeX (or `texi2roff') to typeset the printed version.

If you want to format these Info files yourself, you need one of the Info formatting programs, such as `texinfo-format-buffer' or `makeinfo'.

If you want to typeset and print copies of this manual, you need TeX, a program to print its DVI output files, and `texinfo.tex', the Texinfo definitions file.

TeX is a typesetting program; it does not print files directly, but produces output files called DVI files. To print a typeset document, you need a program to print DVI files. If your system has TeX installed, chances are it has such a program. The precise command to use depends on your system; `lpr -d' is common; another (for PostScript devices) is `dvips'. The DVI print command may require a file name without any extension or a `.dvi' extension.

TeX also requires a macro definitions file called `texinfo.tex'. This file tells TeX how to typeset a document written in Texinfo format. On its own, TeX cannot read, much less typeset a Texinfo file. `texinfo.tex' is distributed with NEWLIB and is located in the `newlib-VERSION-NUMBER/texinfo' directory.

Compiling NEWLIB

To compile NEWLIB, you must build it in a directory separate from the source directory. If you want to run NEWLIB versions for several host or target machines, you need a different `newlib' compiled for each combination

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of host and target. `configure' is designed to make this easy by allowing you to generate each configuration in a separate subdirectory.
If your `make' program handles the `VPATH' feature correctly (like GNU `make') running `make' in each of these directories builds the `newlib' libraries specified there.

To build `newlib' in a specific directory, run `configure' with the `--srcdir' option to specify where to find the source. (You also need to specify a path to find `configure' itself from your working directory. If the path to `configure' would be the same as the argument to `--srcdir', you can leave out the `--srcdir' option; it will be assumed.)

For example, with version 2.0.0, you can build NEWLIB in a separate directory for a Sun 4 cross m68k-aout environment like this:

```
cd newlib-2.0.0
mkdir ../newlib-m68k-aout
cd ../newlib-m68k-aout
../newlib-2.0.0/configure --host=sun4 --target=m68k-aout
make
```

When `configure' builds a configuration using a remote source directory, it creates a tree for the binaries with the same structure (and using the same names) as the tree under the source directory. In the example, you'd find the Sun 4 library `libiberty.a' in the directory `newlib-m68k-aout/libiberty', and NEWLIB itself in `newlib-m68k-aout/newlib'.

When you run `make' to build a program or library, you must run it in a configured directory--whatever directory you were in when you called `configure' (or one of its subdirectories).

The `Makefile' that `configure' generates in each source directory also runs recursively. If you type `make' in a source directory such as `newlib-2.0.0' (or in a separate configured directory configured with `--srcdir=PATH/newlib-2.0.0'), you will build all the required libraries.

When you have multiple hosts or targets configured in separate directories, you can run `make' on them in parallel (for example, if they are NFS-mounted on each of the hosts); they will not interfere with each other.

Specifying names for hosts and targets

The specifications used for hosts and targets in the `configure' script are based on a three-part naming scheme, but some short predefined aliases are also supported. The full naming scheme encodes three pieces of information in the following pattern:

ARCHITECTURE-VENDOR-OS

For example, you can use the alias `sun4' as a HOST argument or in a `--target=TARGET' option. The equivalent full name is `sparc-sun-sunos4'.

The `configure' script accompanying NEWLIB does not provide any query facility to list all supported host and target names or aliases. `configure' calls the Bourne shell script `config.sub' to map abbreviations to full names; you can read the script, if you wish, or you can use it to test your guesses on abbreviations--for example:

```
% sh config.sub sun4
```

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```
sparc-sun-sunos4.1.1
% sh config.sub sun3
m68k-sun-sunos4.1.1
% sh config.sub decstation
mips-dec-ultrix4.2
% sh config.sub hp300bsd
m68k-hp-bsd
% sh config.sub i386v
i386-pc-sysv
% sh config.sub i786v
Invalid configuration `i786v': machine `i786v' not recognized
```

The Build, Host and Target Concepts in newlib

The build, host and target concepts are defined for gcc as follows:

build: the platform on which gcc is built.
host: the platform on which gcc is run.
target: the platform for which gcc generates code.

Since newlib is a library, the target concept does not apply to it, and the build, host, and target options given to the top-level configure script must be changed for newlib's use.

The options are shifted according to these correspondences:

gcc's build platform has no equivalent in newlib.
gcc's host platform is newlib's build platform.
gcc's target platform is newlib's host platform.
and as mentioned before, newlib has no concept of target.

`configure' options

Here is a summary of the `configure' options and arguments that are most often useful for building NEWLIB. `configure' also has several other options not listed here.

```
configure [--help]
[--prefix=DIR]
[--srcdir=PATH]
[--target=TARGET] HOST
```

You may introduce options with a single `-' rather than `--' if you prefer; but you may abbreviate option names if you use `--'.

`--help'
Display a quick summary of how to invoke `configure'.

`--prefix=DIR'
Configure the source to install programs and files in directory `DIR'.

`--exec-prefix=DIR'
Configure the source to install host-dependent files in directory `DIR'.

`--srcdir=PATH'
*Warning: using this option requires GNU `make', or another `make' that compatibly implements the `VPATH' feature.
Use this option to make configurations in directories separate from the NEWLIB source directories. Among other things, you can use this to build (or maintain) several configurations simultaneously, in separate directories. `configure' writes configuration

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```
specific files in the current directory, but arranges for them to
use the source in the directory PATH.  `configure' will create
directories under the working directory in parallel to the source
directories below PATH.

`--norecursion'
Configure only the directory level where `configure' is executed;
do not propagate configuration to subdirectories.

`--target=TARGET'
Configure NEWLIB for running on the specified TARGET.

There is no convenient way to generate a list of all available
targets.

`HOST ...'
Configure NEWLIB to be built using a cross compiler running on
the specified HOST.

There is no convenient way to generate a list of all available
hosts.

To fit diverse usage models, NEWLIB supports a group of configuration
options so that library features can be turned on/off according to
target system's requirements.

One feature can be enabled by specifying `--enable-FEATURE=yes' or
`--enable-FEATURE'.  Or it can be disable by `--enable-FEATURE=no' or
`--disable-FEATURE'.

`--enable-newlib-io-pos-args'
Enable printf-family positional arg support.
Disabled by default, but some hosts enable it in configure.host.

`--enable-newlib-io-c99-formats'
Enable C99 support in IO functions like printf/scanf.
Disabled by default, but some hosts enable it in configure.host.

`--enable-newlib-register-fini'
Enable finalization function registration using atexit.
Disabled by default.

`--enable-newlib-io-long-long'
Enable long long type support in IO functions like printf/scanf.
Disabled by default, but many hosts enable it in configure.host.

`--enable-newlib-io-long-double'
Enable long double type support in IO functions printf/scanf.
Disabled by default, but some hosts enable it in configure.host.

`--enable-newlib-mb'
Enable multibyte support.
Disabled by default.

`--enable-newlib-iconv-encodings'
Enable specific comma-separated list of bidirectional iconv
encodings to be built-in.
Disabled by default.

`--enable-newlib-iconv-from-encodings'
Enable specific comma-separated list of \"from\" iconv encodings
to be built-in.
Disabled by default.

`--enable-newlib-iconv-to-encodings'
```

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```
Enable specific comma-separated list of \"to\" iconv encodings
to be built-in.
Disabled by default.

`--enable-newlib-iconv-external-ccs'
Enable capabilities to load external CCS files for iconv.
Disabled by default.

`--disable-newlib-atexit-dynamic-alloc'
Disable dynamic allocation of atexit entries.
Most hosts and targets have it enabled in configure.host.

`--enable-newlib-reent-small'
Enable small reentrant struct support.
Disabled by default.

`--disable-newlib-fvwrite-in-streamio'
NEWLIB implements the vector buffer mechanism to support stream IO
buffering required by C standard.  This feature is possibly
unnecessary for embedded systems which won't change file buffering
with functions like `setbuf' or `setvbuf'.  The buffering mechanism
still acts as default for STDIN/STDOUT/STDERR even if this option
is specified.
Enabled by default.

`--disable-newlib-fseek-optimization'
Disable fseek optimization.  It can decrease code size of application
calling `fseek`.
Enabled by default.

`--disable-newlib-wide-orient'
C99 states that each stream has an orientation, wide or byte.  This
feature is possibly unnecessary for embedded systems which only do
byte input/output operations on stream.  It can decrease code size
by disable the feature.
Enabled by default.

`--enable-newlib-nano-malloc'
NEWLIB has two implementations of malloc family's functions, one in
`mallocr.c' and the other one in `nano-mallocr.c'.  This options
enables the nano-malloc implementation, which is for small systems
with very limited memory.  Note that this implementation does not
support `--enable-malloc-debugging' any more.
Disabled by default.

`--disable-newlib-unbuf-stream-opt'
NEWLIB does optimization when `fprintf to write only unbuffered unix
file'.  It creates a temorary buffer to do the optimization that
increases stack consumption by about `BUFSIZ' bytes.  This option
disables the optimization and saves size of text and stack.
Enabled by default.

`--enable-multilib'
Build many library versions.
Enabled by default.

`--enable-target-optspace'
Optimize for space.
Disabled by default.

`--enable-malloc-debugging'
Indicate malloc debugging requested.
Disabled by default.

`--enable-newlib-multithread'
Enable support for multiple threads.
```

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```
Enabled by default.

`--enable-newlib-iconv'
Enable iconv library support.
Disabled by default.

`--enable-newlib-elix-level'
Supply desired elix library level (1-4).  Please refer to HOWTO for
more information about this option.
Set to level 0 by default.

`--disable-newlib-io-float'
Disable printf/scanf family float support.
Enabled by default.

`--disable-newlib-supplied-syscalls'
Disable newlib from supplying syscalls.
Enabled by default.

`--enable-lite-exit'
Enable lite exit, a size-reduced implementation of exit that doesn't
invoke clean-up functions such as _fini or global destructors.
Disabled by default.

Running the Testsuite
=====================

To run newlib's testsuite, you'll need a site.exp in your home
directory which points dejagnu to the proper baseboards directory and
the proper exp file for your target.

Before running make check-target-newlib, set the DEJAGNU environment
variable to point to ~/site.exp.

Here is a sample site.exp:

# Make sure we look in the right place for the board description files.
if ![info exists boards_dir] {
set boards_dir {}
}
lappend boards_dir "your dejagnu/baseboards here"

verbose "Global Config File: target_triplet is $target_triplet" 2

global target_list
case "$target_triplet" in {

{ "mips-*elf*" } {
set target_list "mips-sim"
}

default {
set target_list { "unix" }
}
}

mips-sim refers to an exp file in the baseboards directory.  You'll
need to add the other targets you're testing to the case statement.

Now type make check-target-newlib in the top-level build directory to
run the testsuite.

Shared newlib
=============
```

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newlib uses libtool when it is being compiled natively (with
--target=i[34567]86-pc-linux-gnu) on an i[34567]86-pc-linux-gnu
host. This allows newlib to be compiled as a shared library.

To configure newlib, do the following from your build directory:

```
$(source_dir)/src/configure --with-newlib --prefix=$(install_dir)
```

configure will recognize that host == target ==
i[34567]86-pc-linux-gnu, so it will tell newlib to compile itself using
libtool. By default, libtool will build shared and static versions of
newlib.

To compile a program against shared newlib, do the following (where
target_install_dir = $(install_dir)/i[34567]86-pc-linux-gnu):

```
gcc -nostdlib $(target_install_dir)/lib/crt0.o progname.c -I
$(target_install_dir)/include -L $(target_install_dir)/lib -lc -lm -lgcc
```

To run the program, make sure that $(target_install_dir)/lib is listed
in the LD_LIBRARY_PATH environment variable.

To create a static binary linked against newlib, do the following:

```
gcc -nostdlib -static $(target_install_dir)/lib/crt0.o progname.c -I
$(target_install_dir)/include -L $(target_install_dir)/lib -lc -lm
```

libtool can be instructed to produce only static libraries. To build
newlib as a static library only, do the following from your build
directory:

```
$(source_dir)/src/configure --with-newlib --prefix=$(install_dir) --disable-shared
```

Regenerating Configuration Files

At times you will need to make changes to configure.in and Makefile.am files.
This will mean that configure and Makefile.in files will need to be
regenerated.

At the top level of newlib is the file: acinclude.m4. This file contains
the definition of the NEWLIB_CONFIGURE macro which is used by all configure.in
files in newlib. You will notice that each directory in newlib containing
a configure.in file also contains an aclocal.m4 file. This file is
generated by issuing: aclocal -I${relative_path_to_toplevel_newlib_dir}
-I${relative_path_to_toplevel_src_dir}
The first relative directory is to access acinclude.m4. The second relative
directory is to access libtool information in the top-level src directory.

For example, to regenerate aclocal.m4 in newlib/libc/machine/arm:

```
aclocal -I ../../.. -I ../../../..
```

Note that if the top level acinclude.m4 is altered, every aclocal.m4 file
in newlib should be regenerated.

If the aclocal.m4 file is regenerated due to a change in acinclude.m4 or
if a configure.in file is modified, the corresponding configure file in the
directory must be regenerated using autoconf. No parameters are necessary.
In the previous example, we would issue:

```
autoconf
```

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```
from the newlib/libc/machine/arm directory.

If you have regenerated a configure file or if you have modified a Makefile.am
file, you will need to regenerate the appropriate Makefile.in file(s).
For newlib, automake is a bit trickier.  First of all, all Makefile.in
files in newlib (and libgloss) are generated using the --cygnus option
of automake.

Makefile.in files are generated from the nearest directory up the chain
which contains a configure.in file.  In most cases, this is the same
directory containing configure.in, but there are exceptions.
For example, the newlib/libc directory has a number of
subdirectories that do not contain their own configure.in files (e.g. stdio).
For these directories, you must issue the automake command from newlib/libc
which is the nearest parent directory that contains a configure.in.
When you issue the automake command, you specify the subdirectory for
the Makefile.in you are regenerating.  For example:

automake --cygnus stdio/Makefile stdlib/Makefile

Note how multiple Makefile.in files can be created in the same step.  You
would not specify machine/Makefile or sys/Makefile in the previous example
because both of these subdirectories contain their own configure.in files.
One would change to each of these subdirectories and in turn issue:

automake --cygnus Makefile

Let's say you create a new machine directory XXXX off of newlib/libc/machine.
After creating a new configure.in and Makefile.am file, you would issue:

aclocal -I ../../..
autoconf
automake --cygnus Makefile

from newlib/libc/machine/XXXX

It is strongly advised that you use an adequate version of autotools.
For this latest release, the following were used: autoconf 2.68, aclocal 1.11.6, and
automake 1.11.6.

Reporting Bugs
==============

The correct address for reporting bugs found in NEWLIB is
"newlib@sourceware.org".  Please email all bug reports to that
address.  Please include the NEWLIB version number (e.g., newlib-2.0.0),
and how you configured it (e.g., "sun4 host and m68k-aout target").
Since NEWLIB supports many different configurations, it is important
that you be precise about this.

Archives of the newlib mailing list are on-line, see
http://sourceware.org/ml/newlib/
```

2.107 Omnibox Protos (107)

```
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```

2.108 One Euro Filter (108)

```
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```

2.109 opus (109)

```
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2.110 OTS (OpenType Sanitizer) (110)

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2.111 Paul Hsieh's SuperFastHash (111)

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2.112 PFFFT: a pretty fast FFT. (112)

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2.113 play-services-auth (113)

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December 9, 2016

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2.114 play-services-auth-api-phone (114)

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2.115 play-services-auth-base (115)

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Animal Sniffer:

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Files: kotlinc/*

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Version 1.1

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December 9, 2016

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Animal Sniffer:

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Animal Sniffer:

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Version 1.1

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2.119 play-services-clearcut (119)

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2.120 play-services-fido (120)

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Animal Sniffer:

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```
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2.121 play-services-gcm (121)

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2.122 play-services-iid (122)

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December 9, 2016

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2.123 play-services-instantapps (123)

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2.124 play-services-location (124)

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2.125 play-services-vision (125)

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December 9, 2016

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2.131 Puffin deterministic deflate recompressor (131)

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2.132 rapidhash (132)

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```
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2.133 re2 - an efficient, principled regular expression library (133)

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2.134 Recurrent neural network for audio noise reduction (134)

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2.135 ScreenAI Library (135)

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do_not_include_from_google3_only_third_party/boost/boost/multi_index/detail/ord_index_
ops.hpp

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node.hpp
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code/generic_code.hpp
do_not_include_from_google3_only_third_party/boost/boost/outcome/experimental/status-
code/quick_status_code_from_enum.hpp
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AVX implementation of sin, cos, sincos, exp and log

Based on "sse_mathfun.h", by Julien Pommier
http://gruntthepeon.free.fr/ssemath/

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== eigen3

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Following applies to:
./test/sparseqr.cpp
./test/half_float.cpp
./test/zerosized.cpp
./test/nesting_ops.cpp
./test/sizeoverflow.cpp
./test/swap.cpp
./test/product_mmtr.cpp
./test/stdvector_overload.cpp
./test/product_symm.cpp
./test/sparse_block.cpp
./test/eigen2support.cpp
./test/upperbidiagonalization.cpp
./test/numext.cpp
./test/adjoint.cpp
./test/AnnoyingScalar.h
./test/mpl2only.cpp
./test/stddeque.cpp
./test/householder.cpp
./test/product_small.cpp
./test/product_syrk.cpp
./test/inplace_decomposition.cpp
./test/vectorwiseop.cpp
./test/meta.cpp
./test/stdvector.cpp
./test/sparseLM.cpp
./test/diagonalmatrices.cpp

```
./test/stdlist_overload.cpp
./test/block.cpp
./test/cholmod_support.cpp
./test/basicstuff.cpp
./test/triangular.cpp
./test/product.h
./test/vectorization_logic.cpp
./test/dontalign.cpp
./test/first_aligned.cpp
./test/mapped_matrix.cpp
./test/umfpack_support.cpp
./test/product_selfadjoint.cpp
./test/smallvectors.cpp
./test/corners.cpp
./test/product_trsolve.cpp
./test/determinant.cpp
./test/stdlist.cpp
./test/unalignedcount.cpp
./test/qr.cpp
./test/svd_common.h
./test/ref.cpp
./test/symbolic_index.cpp
./test/geo_transformations.cpp
./test/geo_eulerangles.cpp
./test/eigensolver_selfadjoint.cpp
./test/stddeque_overload.cpp
./test/jacobisvd.cpp
./test/nullary.cpp
./test/inverse.cpp
./test/integer_types.cpp
./test/metis_support.cpp
./test/exceptions.cpp
./test/packetmath.cpp
./test/schur_complex.cpp
./test/type_alias.cpp
./test/unalignedassert.cpp
./test/geo_quaternion.cpp
./test/lu.cpp
./test/qr_fullpivoting.cpp
./test/denseLM.cpp
./test/linearstructure.cpp
./test/rand.cpp
./test/conservative_resize.cpp
./test/eigensolver_generalized_real.cpp
./test/pastix_support.cpp
./test/sparse_solver.h
./test/num_dimensions.cpp
./test/simplicial_cholesky.cpp
./test/hessenberg.cpp
./test/array_reverse.cpp
./test/special_numbers.cpp
./test/array_for_matrix.cpp
./test/product_large.cpp
./test/resize.cpp
./test/sparse_solvers.cpp
./test/selfadjoint.cpp
./test/schur_real.cpp
./test/sparse_basic.cpp
./test/conjugate_gradient.cpp
./test/real_qz.cpp
./test/bandmatrix.cpp
./test/dense_storage.cpp
./test/permutationmatrices.cpp
./test/array_cwise.cpp
./test/qr_colpivoting.cpp
./test/array_replicate.cpp
./test/rvalue_types.cpp
./test/stable_norm.cpp
./test/geo_homogeneous.cpp
```

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```
./test/main.h
./test/eigensolver_complex.cpp
./test/product_trmm.cpp
./test/bicgstab.cpp
./test/redux.cpp
./test/klu_support.cpp
./test/geo_alignedbox.cpp
./test/is_same_dense.cpp
./test/sparse_permutations.cpp
./test/sparse_vector.cpp
./test/diagonal.cpp
./test/sparse.h
./test/mapstride.cpp
./test/visitor.cpp
./test/geo_hyperplane.cpp
./test/bdcsvd.cpp
./test/product_trmv.cpp
./test/nestbyvalue.cpp
./test/array_of_string.cpp
./test/superlu_support.cpp
./test/sizeof.cpp
./test/boostmultiprec.cpp
./test/commainitializer.cpp
./test/constructor.cpp
./test/mixingtypes.cpp
./test/miscmatrices.cpp
./test/mapstaticmethods.cpp
./test/product_notemporary.cpp
./test/initializer_list_construction.cpp
./test/incomplete_cholesky.cpp
./test/geo_parametrizedline.cpp
./test/indexed_view.cpp
./test/qtvector.cpp
./test/sparselu.cpp
./test/sparse_product.cpp
./test/dynalloc.cpp
./test/fastmath.cpp
./test/prec_inverse_4x4.cpp
./test/umeyama.cpp
./test/reshape.cpp
./test/product_extra.cpp
./test/jacobi.cpp
./test/sparse_ref.cpp
./test/nomalloc.cpp
./test/spqr_support.cpp
./test/lscg.cpp
./test/cholesky.cpp
./test/eigensolver_generic.cpp
./test/geo_orthomethods.cpp
./test/svd_fill.h
./test/stl_iterators.cpp
./Eigen/src/MetisSupport/MetisSupport.h
./Eigen/src/CholmodSupport/CholmodSupport.h
./Eigen/src/QR/CompleteOrthogonalDecomposition.h
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./Eigen/src/QR/ColPivHouseholderQR.h
./Eigen/src/plugins/CommonCwiseUnaryOps.h
./Eigen/src/plugins/BlockMethods.h
./Eigen/src/plugins/CommonCwiseBinaryOps.h
./Eigen/src/plugins/MatrixCwiseUnaryOps.h
./Eigen/src/plugins/IndexedViewMethods.h
./Eigen/src/plugins/MatrixCwiseBinaryOps.h
./Eigen/src/SVD/UpperBidiagonalization.h
./Eigen/src/SVD/SVDBase.h
./Eigen/src/SVD/BDCSVD.h
./Eigen/src/SVD/JacobiSVD.h
./Eigen/src/SparseLU/SparseLU_relax_snode.h
./Eigen/src/SparseLU/SparseLU_column_dfs.h
```

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```
./Eigen/src/SparseLU/SparseLU_SupernodalMatrix.h
./Eigen/src/SparseLU/SparseLU_pivotL.h
./Eigen/src/SparseLU/SparseLU.h
./Eigen/src/SparseLU/SparseLU_pruneL.h
./Eigen/src/SparseLU/SparseLU_copy_to_ucol.h
./Eigen/src/SparseLU/SparseLU_heap_relax_snode.h
./Eigen/src/SparseLU/SparseLU_kernel_bmod.h
./Eigen/src/SparseLU/SparseLU_panel_dfs.h
./Eigen/src/SparseLU/SparseLU_panel_bmod.h
./Eigen/src/SparseLU/SparseLU_Structs.h
./Eigen/src/SparseLU/SparseLUImpl.h
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./Eigen/src/OrderingMethods/Amd.h
./Eigen/src/UmfPackSupport/UmfPackSupport.h
./Eigen/src/Geometry/Umeyama.h
./Eigen/src/Geometry/Transform.h
./Eigen/src/Geometry/OrthoMethods.h
./Eigen/src/Geometry/Hyperplane.h
./Eigen/src/Geometry/Homogeneous.h
./Eigen/src/Geometry/RotationBase.h
./Eigen/src/Geometry/EulerAngles.h
./Eigen/src/Geometry/Translation.h
./Eigen/src/Geometry/Rotation2D.h
./Eigen/src/Geometry/Scaling.h
./Eigen/src/Geometry/AlignedBox.h
./Eigen/src/Geometry/ParametrizedLine.h
./Eigen/src/Geometry/Quaternion.h
./Eigen/src/Geometry/AngleAxis.h
./Eigen/src/Geometry/arch/Geometry_SSE.h
./Eigen/src/KLUSupport/KLUSupport.h
./Eigen/src/misc/Kernel.h
./Eigen/src/misc/RealSvd2x2.h
./Eigen/src/misc/Image.h
./Eigen/src/StlSupport/details.h
./Eigen/src/StlSupport/StdList.h
./Eigen/src/StlSupport/StdDeque.h
./Eigen/src/StlSupport/StdVector.h
./Eigen/src/SparseQR/SparseQR.h
./Eigen/src/SuperLUSupport/SuperLUSupport.h
./Eigen/src/Householder/Householder.h
./Eigen/src/Householder/HouseholderSequence.h
./Eigen/src/Householder/BlockHouseholder.h
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./Eigen/src/Cholesky/LDLT.h
./Eigen/src/Jacobi/Jacobi.h
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./Eigen/src/SPQRSupport/SuiteSparseQRSupport.h
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./Eigen/src/LU/InverseImpl.h
./Eigen/src/LU/PartialPivLU.h
./Eigen/src/LU/arch/Inverse_SSE.h
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./Eigen/src/Core/CoreEvaluators.h
./Eigen/src/Core/ReturnByValue.h
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./Eigen/src/Core/util/BlasUtil.h
./Eigen/src/Core/util/Constants.h
./Eigen/src/Core/util/IntegralConstant.h
./Eigen/src/Core/util/ReshapedHelper.h
./Eigen/src/Core/util/StaticAssert.h
./Eigen/src/Core/util/IndexedViewHelper.h
./Eigen/src/Core/util/ConfigureVectorization.h
./Eigen/src/Core/util/ForwardDeclarations.h
./Eigen/src/Core/util/Meta.h
./Eigen/src/Core/util/XprHelper.h
./Eigen/src/Core/util/Macros.h
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./Eigen/src/Core/PlainObjectBase.h
./Eigen/src/Core/Transpose.h
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./Eigen/src/Core/Stride.h
./Eigen/src/Core/MathFunctionsImpl.h
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./Eigen/src/Core/products/SelfadjointRank2Update.h
./Eigen/src/Core/products/TriangularMatrixMatrix.h
./Eigen/src/Core/products/TriangularMatrixVector.h
./Eigen/src/Core/products/SelfadjointProduct.h
./Eigen/src/Core/products/GeneralMatrixMatrixTriangular.h
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./Eigen/src/Core/CommaInitializer.h
./Eigen/src/Core/DenseStorage.h
./Eigen/src/Core/DenseBase.h
./Eigen/src/Core/PartialReduxEvaluator.h
./Eigen/src/Core/CoreIterators.h
./Eigen/src/Core/PermutationMatrix.h
./Eigen/src/Core/CwiseTernaryOp.h
./Eigen/src/Core/Reverse.h
./Eigen/src/Core/Reshaped.h
./Eigen/src/Core/Inverse.h
./Eigen/src/Core/TriangularMatrix.h
./Eigen/src/Core/BooleanRedux.h
./Eigen/src/Core/ForceAlignedAccess.h
./Eigen/src/Core/Ref.h
./Eigen/src/Core/StlIterators.h
./Eigen/src/Core/BandMatrix.h
./Eigen/src/Core/ConditionEstimator.h
./Eigen/src/Core/Diagonal.h
./Eigen/src/Core/DiagonalMatrix.h
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./Eigen/src/Core/arch/NEON/MathFunctions.h
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./bench/spbench/spbenchstyle.h
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./bench/benchmark-blocking-sizes.cpp
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tif_hash_set.c

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test_ifd_loop_detection.c

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2.138 simdutf unicode transcoder (138)

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2.139 Simple Homomorphic Encryption Library with Lattices (139)

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2.140 simplejson (140)

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2.146 TensorFlow Lite Support (146)

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2.150 transport-runtime (150)

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2.153 URL Pattern Library (153)

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2.155 v4l-utils (155)

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2.156 V8 fork of fdlibm (156)

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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former contains code derived from the library, while the latter only works together with the library.

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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"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.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the

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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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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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.

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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.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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2.158 Wicked Good XPath (158)

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2.163 xnu (163)

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2.164 XZ Utils (164)

```
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2.165 zlib (165)

version 1.2.12, March 27th, 2022

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bzip2/libbzip2 version 1.0.8 of 13 July 2019

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Inspired by Daniel J. Bernstein's public domain nistp224 implementation
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