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In your requests please include the following reference number 78EE117C99-2692296514

Contents

[1.1 free-type 2.13.2](#)

[1.1.1 Available under license](#)

[1.2 libwebp 1.3.2](#)

[1.2.1 Available under license](#)

[1.3 libjpeg-turbo 3.0.2](#)

[1.3.1 Available under license](#)

[1.4 simple launcher 1.1.0.14](#)

[1.4.1 Available under license](#)

[1.5 readline 8.3-r1](#)

[1.5.1 Available under license](#)

[1.6 libffi 3.5.2-r1](#)

[1.6.1 Available under license](#)

[1.7 mpdecimal 4.0.1-r3](#)

[1.7.1 Available under license](#)

[1.8 libidn 2.3.8-r3](#)

[1.8.1 Available under license](#)

[1.9 libunistring 1.4.1-r1](#)

[1.9.1 Available under license](#)

[1.10 libbz2-1 1.0.8-r21](#)

[1.10.1 Available under license](#)

[1.11 utmps-libs 0.1.2.3-r2](#)

[1.11.1 Available under license](#)

[1.12 typeguard 4.3.0](#)

[1.12.1 Available under license](#)

[1.13 libpsl 0.21.5-r6](#)

[1.13.1 Available under license](#)

1.14 libzstd1 1.5.7-r5

1.14.1 Available under license

1.15 python-certifi 2025.10.05

1.15.1 Available under license

1.16 alpine-keys 2.5-r0

1.16.1 Available under license

1.17 jaraco-context 5.3.0

1.17.1 Available under license

1.18 packaging 25.0

1.18.1 Available under license

1.19 more-itertools 10.3.0

1.19.1 Available under license

1.20 tzdata 2025.2

1.20.1 Available under license

1.21 libunistring 1.4.1-r1

1.21.1 Available under license

1.22 isl 0.27-r4

1.22.1 Available under license

1.23 jaraco-functools 4.0.1

1.23.1 Available under license

1.24 xz 5.8.1-r6

1.24.1 Available under license

1.25 readline 8.3-r1

1.25.1 Available under license

1.26 scanelf 1.3.8-r1

1.26.1 Available under license

1.27 mysqlclient 2.2.4

1.27.1 Available under license

1.28 numpy 1.26.4

1.28.1 Available under license

1.29 python-lxml 6.0.2

1.29.1 Available under license

1.30 acl-libs 2.3.2-r1

1.30.1 Available under license

1.31 utmps 0.1.2.3-r2

1.31.1 Available under license

1.32 libcom-err 1.47.3-r1

1.32.1 Available under license

1.33 libverto 0.3.2-r6

1.33.1 Available under license

1.34 busybox 1.37.0-r50

1.34.1 Available under license

1.35 zipp 3.19.2

1.35.1 Available under license

1.36 markupsafe 3.0.3

1.36.1 Available under license

1.37 jaraco-collections 5.1.0

1.37.1 Available under license

1.38 acl 2.3.2-r1

1.38.1 Available under license

1.39 python-dotenv 1.1.1

1.39.1 Available under license

1.40 jaraco-text 3.12.1

1.40.1 Available under license

1.41 distro 1.9.0

1.41.1 Available under license

1.42 Seahash 4.1.0

1.42.1 Available under license

1.43 libnghttp2-14 1.68.0-r0

1.43.1 Available under license

1.44 ca-certificates 20250911-r0

1.44.1 Available under license

1.45 jaraco.collections 5.1.0

1.45.1 Available under license

1.46 docxtpl 0.16.7

1.46.1 Available under license

1.47 libidn 2.3.8-r3

1.47.1 Available under license

1.48 apk-tools 2.14.6-r3

1.48.1 Available under license

1.49 wheel 0.45.1

1.49.1 Available under license

1.50 coverage 7.11.0

1.50.1 Available under license

1.51 expat 2.7.3-r0

1.51.1 Available under license

1.52 idna 3.11

1.52.1 Available under license

1.53 pycparser 2.23

1.53.1 Available under license

1.54 my-test-package 1.0

1.54.1 Available under license

1.55 make 4.4.1-r8

1.55.1 Available under license

1.56 pyproject-hooks 1.2.0

1.56.1 Available under license

1.57 charset-normalizer 3.4.4

1.57.1 Available under license

1.58 pandas 2.2.0

1.58.1 Available under license

1.59 pkgconf 2.5.1-r1

1.59.1 Available under license

1.60 docxcompose 1.4.0

1.60.1 Available under license

1.61 six 1.17.0

1.61.1 Available under license

1.62 skalibs 2.14.3.0-r0

1.62.1 Available under license

1.63 python-decouple 3.8

1.63.1 Available under license

1.64 pillow 10.3.0

1.64.1 Available under license

1.65 python-dateutil 2.8.2

1.65.1 Available under license

1.66 importlib-metadata 8.0.0

1.66.1 Available under license

1.67 backports.tarfile 1.2.0

1.67.1 Available under license

1.68 msgpack 1.1.2

1.68.1 Available under license

1.69 cryptography 46.0.3

1.69.1 Available under license

1.70 mpfr 4.2.2-r2

1.70.1 Available under license

1.71 gmp 6.3.0-r8

1.71.1 Available under license

1.72 distlib 0.4.0

- 1.72.1 Available under license
- 1.73 python-pip 25.3**
 - 1.73.1 Available under license
- 1.74 ca-certificates-bundle 20250911-r0**
 - 1.74.1 Available under license
- 1.75 heimdal-libs 7.8.0-r42**
 - 1.75.1 Available under license
- 1.76 django-password-validators 1.7.3**
 - 1.76.1 Available under license
- 1.77 pax-utils 1.3.8-r1**
 - 1.77.1 Available under license
- 1.78 openssl 3.3.5-r0**
 - 1.78.1 Available under license
- 1.79 attr 2.5.2-r2**
 - 1.79.1 Available under license
- 1.80 backports-tarfile 1.2.0**
 - 1.80.1 Available under license
- 1.81 mpdecimal 4.0.1-r3**
 - 1.81.1 Available under license
- 1.82 autocommand 2.2.2**
 - 1.82.1 Available under license
- 1.83 jaraco.text 3.12.1**
 - 1.83.1 Available under license
- 1.84 alpine-base 3.21.5-r0**
 - 1.84.1 Available under license
- 1.85 et-xmlfile 2.0.0**
 - 1.85.1 Available under license
- 1.86 python-requests 2.32.5**
 - 1.86.1 Available under license
- 1.87 django-cryptography-5 2.0.3**
 - 1.87.1 Available under license
- 1.88 tre 0.8.0-r2**
 - 1.88.1 Available under license
- 1.89 python-docx 1.1.0**
 - 1.89.1 Available under license
- 1.90 alpine-release 3.21.5-r0**
 - 1.90.1 Available under license
- 1.91 gdbm 1.26-r1**
 - 1.91.1 Available under license

1.92 python-setuptools 80.9.0

1.92.1 Available under license

1.93 alpine-baselayout-data 3.6.8-r1

1.93.1 Available under license

1.94 libcrypto3 3.3.5-r0

1.94.1 Available under license

1.95 cffi 2.0.0

1.95.1 Available under license

1.96 python-babel 2.17.0

1.96.1 Available under license

1.97 libldap-2.6 2.6.10-r6

1.97.1 Available under license

1.98 grep 3.11-r0

1.98.1 Available under license

1.99 python-requests 2.32.4

1.99.1 Available under license

1.100 sqlparse 0.5.3

1.100.1 Available under license

1.101 pytz 2025.2

1.101.1 Available under license

1.102 alpine-baselayout 3.6.8-r1

1.102.1 Available under license

1.103 busybox 1.37.0-r50

1.103.1 Available under license

1.104 jaraco.context 5.3.0

1.104.1 Available under license

1.105 libffi 3.5.2-r1

1.105.1 Available under license

1.106 musl-utils 1.2.5-r9

1.106.1 Available under license

1.107 skalibs-libs 2.14.3.0-r0

1.107.1 Available under license

1.108 jinja 3.1.6

1.108.1 Available under license

1.109 cachecontrol 0.14.3

1.109.1 Available under license

1.110 inflect 7.3.1

1.110.1 Available under license

1.111 openpyxl 3.1.2

1.111.1 Available under license

1.112 django-axes 8.0.0

1.112.1 Available under license

1.113 truststore 0.10.4

1.113.1 Available under license

1.114 typing-extensions 4.12.2

1.114.1 Available under license

1.115 keyutils-libs 1.6.3-r37

1.115.1 Available under license

1.116 rich 14.1.0

1.116.1 Available under license

1.117 zlib 1.3.1-r2

1.117.1 Available under license

1.118 gunicorn 23.0.0

1.118.1 Available under license

1.119 chainguard-baselayout 20230214-r15

1.119.1 Available under license

1.120 crossbeam-epoch 0.9.18

1.120.1 Available under license

1.121 pyo3 0.26.0

1.121.1 Available under license

1.122 lazy_static 1.5.0

1.122.1 Available under license

1.123 aho-corasick 1.1.3

1.123.1 Available under license

1.124 rayon-core 1.12.1

1.124.1 Available under license

1.125 crossbeam-deque 0.8.6

1.125.1 Available under license

1.126 regex-syntax 0.8.5

1.126.1 Available under license

1.127 pyo3-ffi 0.26.0

1.127.1 Available under license

1.128 base-64 0.22.1

1.128.1 Available under license

1.129 rayon 1.10.0

1.129.1 Available under license

1.130 once_cell 1.21.3

1.130.1 Available under license

1.131 num-bigint 0.4.6

1.131.1 Available under license

1.132 gdbm 1.26-r1

1.132.1 Available under license

1.133 expat 2.7.3-r0

1.133.1 Available under license

1.134 memchr 2.7.6

1.134.1 Available under license

1.135 pem 3.0.5

1.135.1 Available under license

1.136 num-integer 0.1.46

1.136.1 Available under license

1.137 asn1 0.22.0

1.137.1 Available under license

1.138 bzip2 1.0.8-r21

1.138.1 Available under license

1.139 smallvec 1.15.1

1.139.1 Available under license

1.140 openssl-sys 0.9.110

1.140.1 Available under license

1.141 bstr 1.12.0

1.141.1 Available under license

1.142 walkdir 2.5.0

1.142.1 Available under license

1.143 same-file 1.0.6

1.143.1 Available under license

1.144 hex 0.4.3

1.144.1 Available under license

1.145 idna 1.1.0

1.145.1 Available under license

1.146 openssl-provider-fips-3.1.2 3.1.2-r3

1.146.1 Available under license

1.147 ipnet 2.11.0

1.147.1 Available under license

1.148 futures-lite 2.6.0

1.148.1 Available under license

1.149 tracing-log 0.2.0

1.149.1 Available under license

1.150 dashmap 6.1.0

1.150.1 Available under license

1.151 encoding_rs 0.8.35

1.151.1 Available under license

1.152 futures-core 0.3.31

1.152.1 Available under license

1.153 encoding_rs_io 0.1.7

1.153.1 Available under license

1.154 tar 0.4.44

1.154.1 Available under license

1.155 sharded-slab 0.1.7

1.155.1 Available under license

1.156 miette 7.6.0

1.156.1 Available under license

1.157 ring 0.17.14

1.157.1 Available under license

1.158 futures-executor 0.3.31

1.158.1 Available under license

1.159 futures-util 0.3.31

1.159.1 Available under license

1.160 mailparse 0.16.1

1.160.1 Available under license

1.161 configparser 3.1.0

1.161.1 Available under license

1.162 http 1.3.1

1.162.1 Available under license

1.163 csv 1.3.1

1.163.1 Available under license

1.164 base-64 0.21.7

1.164.1 Available under license

1.165 smawk 0.3.2

1.165.1 Available under license

1.166 async-broadcast 0.7.2

1.166.1 Available under license

1.167 event-listener 5.4.0

1.167.1 Available under license

1.168 parking_lot_core 0.9.11

1.168.1 Available under license

1.169 concurrent-queue 2.5.0

1.169.1 Available under license

1.170 bzip2-sys 0.1.13+1.0.8

1.170.1 Available under license

1.171 arcstr 1.2.0

1.171.1 Available under license

1.172 boxcar 0.2.14

1.172.1 Available under license

1.173 quoted_printable 0.5.1

1.173.1 Available under license

1.174 want 0.3.1

1.174.1 Available under license

1.175 generic-array 0.14.7

1.175.1 Available under license

1.176 priority-queue 2.5.0

1.176.1 Available under license

1.177 parking 2.2.1

1.177.1 Available under license

1.178 data-encoding 2.9.0

1.178.1 Available under license

1.179 bisection 0.1.0

1.179.1 Available under license

1.180 uuid 1.17.0

1.180.1 Available under license

1.181 http-body-util 0.1.3

1.181.1 Available under license

1.182 matchers 0.2.0

1.182.1 Available under license

1.183 which 8.0.0

1.183.1 Available under license

1.184 console 0.16.1

1.184.1 Available under license

1.185 slab 0.4.11

1.185.1 Available under license

1.186 regex 1.11.2

1.186.1 Available under license

1.187 html-escape 0.2.13

1.187.1 Available under license

1.188 nix 0.30.1

1.188.1 Available under license

1.189 xz2 0.1.7

1.189.1 Available under license
1.190 atomic-waker 1.1.2
1.190.1 Available under license
1.191 dotenvy 0.15.7
1.191.1 Available under license
1.192 globwalk 0.9.1
1.192.1 Available under license
1.193 bytes 1.10.1
1.193.1 Available under license
1.194 lzma-rs 0.3.0
1.194.1 Available under license
1.195 charset 0.1.5
1.195.1 Available under license
1.196 async-channel 2.5.0
1.196.1 Available under license
1.197 aes 0.8.4
1.197.1 Available under license
1.198 rancor 0.1.0
1.198.1 Available under license
1.199 unicode-linebreak 0.1.5
1.199.1 Available under license
1.200 nanoid 0.4.0
1.200.1 Available under license
1.201 untrusted 0.9.0
1.201.1 Available under license
1.202 anyhow 1.0.100
1.202.1 Available under license
1.203 miniz_oxide 0.8.9
1.203.1 Available under license
1.204 cipher 0.4.4
1.204.1 Available under license
1.205 endi 1.1.0
1.205.1 Available under license
1.206 fixedbitset 0.5.7
1.206.1 Available under license
1.207 strsim 0.11.1
1.207.1 Available under license
1.208 futures-channel 0.3.31
1.208.1 Available under license

1.209 bumpalo 3.19.0

1.209.1 Available under license

1.210 tokio-stream 0.1.17

1.210.1 Available under license

1.211 zstd-safe 7.2.4

1.211.1 Available under license

1.212 icu_normalizer 2.0.0

1.212.1 Available under license

1.213 mio 1.0.4

1.213.1 Available under license

1.214 tower 0.5.2

1.214.1 Available under license

1.215 pathdiff 0.2.3

1.215.1 Available under license

1.216 glob 0.3.3

1.216.1 Available under license

1.217 rust-netrc 0.1.2

1.217.1 Available under license

1.218 textwrap 0.16.2

1.218.1 Available under license

1.219 sha-1 0.10.6

1.219.1 Available under license

1.220 block-buffer 0.10.4

1.220.1 Available under license

1.221 openldap-2.6 2.6.10-r6

1.221.1 Available under license

1.222 keyutils 1.6.3-r37

1.222.1 Available under license

1.223 heimdal 7.8.0-r42

1.223.1 Available under license

1.224 e2fsprogs 1.47.3-r1

1.224.1 Available under license

1.225 digest 0.10.7

1.225.1 Available under license

1.226 zstd 1.5.7-r5

1.226.1 Available under license

1.227 icu_collections 2.0.0

1.227.1 Available under license

1.228 crc32fast 1.5.0

1.228.1 Available under license
1.229 retry-policies 0.4.0
1.229.1 Available under license
1.230 os_str_bytes 6.6.1
1.230.1 Available under license
1.231 sha-2 0.10.9
1.231.1 Available under license
1.232 fs-err 3.1.3
1.232.1 Available under license
1.233 rmp 0.8.14
1.233.1 Available under license
1.234 const-oid 0.9.6
1.234.1 Available under license
1.235 subtle 2.6.1
1.235.1 Available under license
1.236 sys-info 0.9.1
1.236.1 Available under license
1.237 utf8_iter 1.0.4
1.237.1 Available under license
1.238 tinyvec 1.9.0
1.238.1 Available under license
1.239 bash 5.3-r3
1.239.1 Available under license
1.240 mpclib 1.3.1-r7
1.240.1 Available under license
1.241 open-ldap 2.6.10-r6
1.241.1 Available under license
1.242 make 4.4.1-r8
1.242.1 Available under license
1.243 mpfr 4.2.2-r2
1.243.1 Available under license
1.244 isl 0.27-r4
1.244.1 Available under license
1.245 pkgconf 2.5.1-r1
1.245.1 Available under license
1.246 gmp 6.3.0-r8
1.246.1 Available under license
1.247 num-rational 0.4.2
1.247.1 Available under license

1.248 colorchoice 1.0.4

1.248.1 Available under license

1.249 crc-catalog 2.4.0

1.249.1 Available under license

1.250 crc 3.3.0

1.250.1 Available under license

1.251 crossbeam-utils 0.8.21

1.251.1 Available under license

1.252 log 0.4.27

1.252.1 Available under license

1.253 dunce 1.0.5

1.253.1 Available under license

1.254 icu_locale_core 2.0.0

1.254.1 Available under license

1.255 unicas 2.8.1

1.255.1 Available under license

1.256 zstd-sys 2.0.15+zstd.1.5.7

1.256.1 Available under license

1.257 tracing 0.1.41

1.257.1 Available under license

1.258 fnv 1.0.7

1.258.1 Available under license

1.259 adler2 2.0.1

1.259.1 Available under license

1.260 blake2 0.10.6

1.260.1 Available under license

1.261 cpufeatures 0.2.17

1.261.1 Available under license

1.262 ptr_meta 0.3.0

1.262.1 Available under license

1.263 libz-rs-sys 0.5.1

1.263.1 Available under license

1.264 path-slash 0.2.1

1.264.1 Available under license

1.265 tempfile 3.20.0

1.265.1 Available under license

1.266 futures-sink 0.3.31

1.266.1 Available under license

1.267 lock_api 0.4.13

1.267.1 Available under license
1.268 sync_wrapper 1.0.2
1.268.1 Available under license
1.269 utf8-width 0.1.7
1.269.1 Available under license
1.270 stable_deref_trait 1.2.0
1.270.1 Available under license
1.271 tower-layer 0.3.3
1.271.1 Available under license
1.272 potential_utf 0.1.2
1.272.1 Available under license
1.273 simd-adler32 0.3.7
1.273.1 Available under license
1.274 http-body 1.0.1
1.274.1 Available under license
1.275 typenum 1.18.0
1.275.1 Available under license
1.276 simdutf8 0.1.5
1.276.1 Available under license
1.277 writeable 0.6.1
1.277.1 Available under license
1.278 yoke 0.8.0
1.278.1 Available under license
1.279 icu_properties_data 2.0.1
1.279.1 Available under license
1.280 scroll 0.13.0
1.280.1 Available under license
1.281 dyn-clone 1.0.19
1.281.1 Available under license
1.282 zerofrom-derive 0.1.6
1.282.1 Available under license
1.283 tinystl 0.8.1
1.283.1 Available under license
1.284 idna_adapter 1.2.1
1.284.1 Available under license
1.285 futures-task 0.3.31
1.285.1 Available under license
1.286 tinyvec_macros 0.1.1
1.286.1 Available under license

1.287 procfs-core 0.17.0

1.287.1 Available under license

1.288 supports-unicode 3.0.0

1.288.1 Available under license

1.289 terminal_size 0.4.2

1.289.1 Available under license

1.290 env_home 0.1.0

1.290.1 Available under license

1.291 scopeguard 1.2.0

1.291.1 Available under license

1.292 portable-atomic 1.11.1

1.292.1 Available under license

1.293 zerofrom 0.1.6

1.293.1 Available under license

1.294 try-lock 0.2.5

1.294.1 Available under license

1.295 httpdate 1.0.3

1.295.1 Available under license

1.296 zerotrie 0.2.2

1.296.1 Available under license

1.297 procfs 0.17.0

1.297.1 Available under license

1.298 openssl-probe 0.1.6

1.298.1 Available under license

1.299 displaydoc 0.2.5

1.299.1 Available under license

1.300 unicode-ident 1.0.18

1.300.1 Available under license

1.301 shell-escape 0.1.5

1.301.1 Available under license

1.302 utf8parse 0.2.2

1.302.1 Available under license

1.303 pin-utils 0.1.0

1.303.1 Available under license

1.304 icu_properties 2.0.1

1.304.1 Available under license

1.305 ryu 1.0.20

1.305.1 Available under license

1.306 rend 0.5.2

1.306.1 Available under license
1.307 either 1.15.0
1.307.1 Available under license
1.308 synstructure 0.13.2
1.308.1 Available under license
1.309 lzma-sys 0.1.20
1.309.1 Available under license
1.310 icu_normalizer_data 2.0.0
1.310.1 Available under license
1.311 litemap 0.8.0
1.311.1 Available under license
1.312 tikv-jemalloc-sys 0.6.0+5.3.0-1-ge13ca993e8ccb9ba9847cc330696e02839f328f7
1.312.1 Available under license
1.313 option-ext 0.2.0
1.313.1 Available under license
1.314 futures-io 0.3.31
1.314.1 Available under license
1.315 errno 0.3.13
1.315.1 Available under license
1.316 nu-ansi-term 0.50.1
1.316.1 Available under license
1.317 paste 1.0.15
1.317.1 Available under license
1.318 zerocopy 0.8.26
1.318.1 Available under license
1.319 supports-color 3.0.2
1.319.1 Available under license
1.320 yoke-derive 0.8.0
1.320.1 Available under license
1.321 futures 0.3.31
1.321.1 Available under license
1.322 num-traits 0.2.19
1.322.1 Available under license
1.323 ppv-lite86 0.2.21
1.323.1 Available under license
1.324 plain 0.2.3
1.324.1 Available under license
1.325 supports-hyperlinks 3.1.0

1.325.1 Available under license
1.326 mime 0.3.17
1.326.1 Available under license
1.327 crypto-common 0.1.6
1.327.1 Available under license
1.328 md-5 0.10.6
1.328.1 Available under license
1.329 itoa 1.0.15
1.329.1 Available under license
1.330 allocator-api2 0.2.21
1.330.1 Available under license
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1.340.1 Available under license
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1.419.1 Available under license

1.1 free-type 2.13.2

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# Files that don't get a copyright, or which are taken from elsewhere.  
#  
# All lines in this file are patterns (relative to the top-level directory),  
# including the comment lines; this means that e.g. `FTL.TXT' matches all
```

```
# files that have this string in the file name (including the path relative
# to the current directory, always starting with `./').
#
# Don't put empty lines into this file!
#
builds/unix/pkg.m4
#
docs/FTL.TXT
docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdfplib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/ftzconf.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
```

src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h

src/tools/apinames.c
src/tools/ftrandom/ftrandom.c

subprojects/dlg

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2006-Jan-27

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o freetype-devel@nongnu.org

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jQuery v3.6.1

jQuery License
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jQuery v 3.6.1

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jQuery UI v1.13.2

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1.4 simple launcher 1.1.0.14

1.4.1 Available under license :

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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 (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Release	Derived from	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
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes

2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
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Distutils2 Contributors

=====

The Distutils2 project was started by Tarek Ziad and is currently
maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order,
and welcome into the Fellowship of the Packaging!

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- Nadeem Vawda
Metadata-Version: 1.0
Name: setuptools
Version: 0.6c9
Summary: Download, build, install, upgrade, and uninstall Python packages -- easily!
Home-page: <http://pypi.org/pypi/setuptools>
Author: Phillip J. Eby
Author-email: distutils-sig@python.org
License: PSF or ZPL
Description: =====

Installing and Using Setuptools

=====

.. contents:: **Table of Contents**

Installation Instructions

Windows

=====

Install setuptools using the provided ``.exe`` installer. If you've previously installed older versions of setuptools, please delete all ``setuptools\*.egg`` and ``setuptools.pth`` files from your system's ``site-packages`` directory (and any other ``sys.path`` directories) FIRST.

If you are upgrading a previous version of setuptools that was installed using an ``.exe`` installer, please be sure to also **uninstall that older version** via your system's "Add/Remove Programs" feature, BEFORE installing the newer version.

Once installation is complete, you will find an ``easy\_install.exe`` program in your Python ``Scripts`` subdirectory. Be sure to add this directory to your ``PATH`` environment variable, if you haven't already done so.

RPM-Based Systems

=====

Install setuptools using the provided source RPM. The included ``.spec`` file assumes you are installing using the default ``python`` executable, and is not specific to a particular Python version. The ``easy\_install`` executable will be installed to a system ``bin`` directory such as ``/usr/bin``.

If you wish to install to a location other than the default Python

installation's default `site-packages` directory (and `$prefix/bin` for scripts), please use the `.egg`-based installation approach described in the following section.

Cygwin, Mac OS X, Linux, Other

=====

1. Download the appropriate egg for your version of Python (e.g. `setuptools-0.6c9-py2.4.egg`). Do NOT rename it.
2. Run it as if it were a shell script, e.g. `sh setuptools-0.6c9-py2.4.egg`. Setuptools will install itself using the matching version of Python (e.g. `python2.4`), and will place the `easy_install` executable in the default location for installing Python scripts (as determined by the standard distutils configuration files, or by the Python installation).

If you want to install setuptools to somewhere other than `site-packages` or your default distutils installation locations for libraries and scripts, you may include EasyInstall command-line options such as `--prefix`, `--install-dir`, and so on, following the `.egg` filename on the same command line. For example::

```
sh setuptools-0.6c9-py2.4.egg --prefix=~
```

You can use `--help` to get a full options list, but we recommend consulting the `EasyInstall manual` for detailed instructions, especially the section on custom installation locations.

.. `_EasyInstall manual`: <http://peak.telecommunity.com/DevCenter/EasyInstall>
.. the section on custom installation locations: <http://peak.telecommunity.com/DevCenter/EasyInstall#custom-installation-locations>

Cygwin Note

If you are trying to install setuptools for the **Windows** version of Python (as opposed to the Cygwin version that lives in `/usr/bin`), you must make sure that an appropriate executable (`python2.3`, `python2.4`, or `python2.5`) is on your **Cygwin** `PATH` when invoking the egg. For example, doing the following at a Cygwin bash prompt will install setuptools for the **Windows** Python found at `C:\Python24`::

```
In -s /cygdrive/c/Python24/python.exe python2.4  
PATH=.:$PATH sh setuptools-0.6c9-py2.4.egg
```

rm python2.4

Downloads

=====

All setuptools downloads can be found at `the project's home page in the Python Package Index`_. Scroll to the very bottom of the page to find the links.

.. _the project's home page in the Python Package Index: <http://pypi.org/pypi/setuptools>

In addition to the PyPI downloads, the development version of ``setuptools`` is available from the `Python SVN sandbox`_, and in-development versions of the `0.6 branch`_ are available as well.

.. _0.6 branch: <http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06>

.. _Python SVN sandbox: <http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev>

Using

Setuptools and EasyInstall

Here are some of the available manuals, tutorials, and other resources for learning about Setuptools, Python Eggs, and EasyInstall:

- * `The EasyInstall user's guide and reference manual`_
- * `The setuptools Developer's Guide`_
- * `The pkg\_resources API reference`_
- * `Package Compatibility Notes`_ (user-maintained)
- * `The Internal Structure of Python Eggs`_

Questions, comments, and bug reports should be directed to the `distutils-sig mailing list`_. If you have written (or know of) any tutorials, documentation, plug-ins, or other resources for setuptools users, please let us know about them there, so this reference list can be updated. If you have working, *tested* patches to correct problems or add features, you may submit them to the `setuptools bug tracker`_.

.. _setuptools bug tracker: <http://bugs.python.org/setuptools/>

.. _Package Compatibility Notes: <http://peak.telecommunity.com/DevCenter/PackageNotes>

.. _The Internal Structure of Python Eggs: <http://peak.telecommunity.com/DevCenter/EggFormats>

.. _The setuptools Developer's Guide: <http://peak.telecommunity.com/DevCenter/setuptools>

.. _The pkg_resources API reference: <http://peak.telecommunity.com/DevCenter/PkgResources>

.. _The EasyInstall user's guide and reference manual: <http://peak.telecommunity.com/DevCenter/EasyInstall>

.. _distutils-sig mailing list: <http://mail.python.org/pipermail/distutils-sig/>

Credits

* The original design for the ``egg`` format and the ``pkg\_resources`` API was co-created by Phillip Eby and Bob Ippolito. Bob also implemented the first version of ``pkg\_resources``, and supplied the OS X operating system version compatibility algorithm.

* Ian Bicking implemented many early "creature comfort" features of `easy_install`, including support for downloading via Sourceforge and Subversion repositories. Ian's comments on the Web-SIG about WSGI application deployment also inspired the concept of "entry points" in eggs, and he has given talks at PyCon and elsewhere to inform and educate the community about eggs and `setuptools`.

* Jim Fulton contributed time and effort to build automated tests of various aspects of ``easy\_install``, and supplied the doctests for the command-line ``.exe`` wrappers on Windows.

* Phillip J. Eby is the principal author and maintainer of `setuptools`, and first proposed the idea of an importable binary distribution format for Python application plug-ins.

* Significant parts of the implementation of `setuptools` were funded by the Open Source Applications Foundation, to provide a plug-in infrastructure for the Chandler PIM application.

In addition, many OSAF staffers (such as Mike "Code Bear" Taylor) contributed their time and stress as guinea pigs for the use of eggs and `setuptools`, even before eggs were "cool". (Thanks, guys!)

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.7 mpdecimal 4.0.1-r3

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1.8 libidn 2.3.8-r3

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/* Extract the last component (base name) of a file name.

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```
#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H
```

```
/* This file uses _GL_ATTRIBUTE_PURE. */
#if !_GL_CONFIG_H_INCLUDED
#error "Please include config.h first."
#endif
```

```
#include <stddef.h>
```

```
#ifndef
DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif
```

```
#ifdef __cplusplus
extern "C" {
#endif
```

```
/* Return the address of the last file name component of FILENAME.
If FILENAME has some trailing slash(es), they are considered to be
part of the last component.
If FILENAME has no relative file name components because it is a file
system root, return the empty string.
Examples:
```


FILENAME	RESULT
"foo.c"	"foo.c"
"foo/bar.c"	"bar.c"
"/foo/bar.c"	"bar.c"
"foo/bar/"	"bar/"
"foo/bar/"	"bar/"
"/"	""
"//"	""
""	""

The return value is a tail of the given FILENAME; do NOT free() it! */

/* This function was traditionally called 'basename', but we avoid this function name because

* Various platforms have different functions in their libc.

In particular, the glibc basename(), defined in <string.h>, does

not consider trailing slashes to be part of the component:

FILENAME	RESULT
"foo/bar/"	""
"foo/bar/"	""

* The 'basename' command eliminates trailing slashes and for a root produces a non-empty result:

FILENAME	RESULT
"foo/bar/"	"bar"
"foo/bar/"	"bar"
"/"	"/"
"//"	"/"

*/

extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.

Typically FILENAME is the value returned by base_name or last_component.

Act like strlen (FILENAME), except omit all trailing slashes. */

extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;

#ifdef __cplusplus

} /* extern "C" */

#endif

#endif /* _BASENAME_LGPL_H */

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Version 3, 29 June 2007

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<one line to give the program's name and a brief idea of what it does.>
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```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Moe Ghoul>, 1 April 1989
Moe Ghoul, President of Vice
```

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The

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```
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1.9 libunistring 1.4.1-r1

1.9.1 Available under license :

/* Extract the last component (base name) of a file name.

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```
#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H
```

```
/* This file uses _GL_ATTRIBUTE_PURE. */
#if !_GL_CONFIG_H_INCLUDED
#error "Please include config.h first."
```

```
#endif
```

```
#include <stddef.h>
```

```
#ifndef
```

```
    DOUBLE_SLASH_IS_DISTINCT_ROOT
```

```
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
```

```
#endif
```

```
#ifdef __cplusplus
```

```
extern "C" {
```

```
#endif
```

```
/* Return the address of the last file name component of FILENAME.
```

If FILENAME has some trailing slash(es), they are considered to be part of the last component.

If FILENAME has no relative file name components because it is a file system root, return the empty string.

Examples:

FILENAME	RESULT

"foo.c"	"foo.c"

"foo/bar.c"	"bar.c"

"/foo/bar.c"	"bar.c"

"foo/bar/"	"bar/"

"foo/bar/"	"bar/"

"/"	""

"//"	""

""	""

The return value is a tail of the given FILENAME; do NOT free() it! */

```
/* This function was traditionally called 'basename', but we avoid this function name because
```

* Various platforms have different functions in their libc.

In particular, the glibc basename(),

defined in <string.h>, does

not consider trailing slashes to be part of the component:

FILENAME	RESULT

"foo/bar/"	""

"foo/bar/"	""

* The 'basename' command eliminates trailing slashes and for a root produces a non-empty result:

FILENAME	RESULT

"foo/bar/"	"bar"

"foo/bar/"	"bar"

"/"	"/"

"//"	"/"

```
*/
```

```
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;
```

```
/* Return the length of the basename FILENAME.
```

```
Typically FILENAME is the value returned by base_name or last_component.
```

```
Act like strlen (FILENAME), except omit all trailing slashes. */
```

```
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;
```

```
#ifdef __cplusplus
```

```
} /* extern "C" */
```

```
#endif
```

```
#endif /* _BASENAME_LGPL_H */
```

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Version 3, 29 June 2007

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1.10 libbz2-1 1.0.8-r21

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1.11 utmps-lib 0.1.2.3-r2

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1.12 typeguard 4.3.0

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1.13 libpsl 0.21.5-r6

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1.14 libzstd1 1.5.7-r5

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```

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1.15 python-certifi 2025.10.05

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree: <https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>
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@(#) \$RCSfile: certdata.txt,v \$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

1.16 alpine-keys 2.5-r0

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Maintainer: Natanael Copa <ncopa@alpinelinux.org>

pkgname=alpine-keys

pkgver=2.5

pkgrel=0

pkgdesc="Public keys for Alpine Linux packages"

```
url="https://alpinelinux.org"
# we install arch specific keys to /etc so we cannot do arch=noarch
arch="all"
license="MIT"
replaces="alpine-base"
```

1.17 jaraco-context 5.3.0

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1.18 packaging 25.0

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1.19 more-itertools 10.3.0

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1.20 tzdata 2025.2

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1.21 libunistring 1.4.1-r1

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```
#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H
```

```
/* This file uses _GL_ATTRIBUTE_PURE. */
#if !_GL_CONFIG_H_INCLUDED
```

```
#error "Please include config.h first."
```

```
#endif
```

```
#include <stddef.h>
```

```
#ifndef
```

```
DOUBLE_SLASH_IS_DISTINCT_ROOT
```

```
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
```

```
#endif
```

```
#ifdef __cplusplus
```

```
extern "C" {
```

```
#endif
```

```
/* Return the address of the last file name component of FILENAME.
```

If FILENAME has some trailing slash(es), they are considered to be part of the last component.

If FILENAME has no relative file name components because it is a file system root, return the empty string.

Examples:

FILENAME	RESULT

"foo.c"	"foo.c"

"foo/bar.c"	"bar.c"

"/foo/bar.c"	"bar.c"

"foo/bar/"	"bar/"

"foo/bar/"	"bar/"

"/"	""

"//"	""

""	""

The return value is a tail of the given FILENAME; do NOT free() it! */

```
/* This function was traditionally called 'basename', but we avoid this function name because
```

* Various platforms have different functions in their libc.

In particular, the glibc `basename()`,

defined in `<string.h>`, does

not consider trailing slashes to be part of the component:

FILENAME	RESULT

"foo/bar/"	""

"foo/bar/"	""

* The 'basename' command eliminates trailing slashes and for a root produces a non-empty result:

FILENAME	RESULT

"foo/bar/"	"bar"

"foo/bar/"	"bar"

"/"	"/"

"//"	"/"

```

*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
   Typically FILENAME is the value returned by base_name or last_component.
   Act like strlen (FILENAME), except omit all trailing slashes. */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;

```

```

#ifdef __cplusplus
} /* extern "C" */
#endif

```

```

#endif /* _BASENAME_LGPL_H */
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Version 3, 29 June 2007

```

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section 10

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1.22 isl 0.27-r4

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1.24 xz 5.8.1-r6

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1.26 scanf 1.3.8-r1

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1.27 mysqlclient 2.2.4

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1.28 numpy 1.26.4

1.28.1 Available under license :

SPLITMIX64

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Name: LAPACK

Files: numpy.libs\libopenblas*.dll

Description: bundled in OpenBLAS

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Name: GCC runtime library

Files: numpy.libs\libopenblas*.dll

Description: statically linked to files compiled with gcc

Availability: <https://gcc.gnu.org/git/?p=gcc.git;a=tree;f=libgfortran>

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Name: libquadmath

Files: numpy.libs\libopenb*.dll

Description: statically linked to files compiled with gcc

Availability: <https://gcc.gnu.org/git/?p=gcc.git;a=tree;f=libquadmath>

License: LGPL-2.1-or-later

GCC Quad-Precision Math Library

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Written by Francois-Xavier Coudert <fxcoudert@gcc.gnu.org>

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Files: numpy.libs/libopenblas*.so

Description: bundled as a dynamically linked library

Availability: <https://github.com/OpenMathLib/OpenBLAS/>

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Description: bundled in OpenBLAS

Availability: <https://github.com/OpenMathLib/OpenBLAS/>

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Name: GCC runtime library

Files: numpy.libs/libgfortran*.so

Description: dynamically linked to files compiled with gcc

Availability: <https://gcc.gnu.org/git/?p=gcc.git;a=tree;f=libgfortran>

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Name: libquadmath

Files: numpy.libs/libquadmath*.so

Description: dynamically linked to files compiled with gcc

Availability: <https://gcc.gnu.org/git/?p=gcc.git;a=tree;f=libquadmath>

License: LGPL-2.1-or-later

GCC Quad-Precision Math Library

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Written by Francois-Xavier Coudert <fxcoudert@gcc.gnu.org>

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Julia

The ziggurat methods were derived from Julia.

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<https://github.com/JuliaLang/julia/contributors>

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SFC64

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Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

<https://gist.github.com/immeme/f1f7821f07cf76504a97f6537c818083>

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This binary distribution of NumPy also bundles the following software:

Name: OpenBLAS

Files: numpy/.dylibs/libopenblas*.so

Description: bundled as a dynamically linked library

Availability: <https://github.com/OpenMathLib/OpenBLAS/>

License: BSD-3-Clause

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Name: LAPACK

Files: numpy/.dylibs/libopenblas*.so

Description: bundled in OpenBLAS

Availability: <https://github.com/OpenMathLib/OpenBLAS/>

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Name: GCC runtime library

Files: numpy/.dylibs/libgfortran*, numpy/.dylibs/libgcc*

Description: dynamically linked to files compiled with gcc

Availability: <https://gcc.gnu.org/git/?p=gcc.git;a=tree;f=libgfortran>

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Version 3.1, 31 March 2009

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MT19937

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The rk_random and rk_seed functions algorithms and the original design of the Mersenne Twister RNG:

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Original algorithm for the implementation of `rk_interval` function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the `rk_double` implementation by Isaku Wada.

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1.31 utmps 0.1.2.3-r2

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1.32 libcom-err 1.47.3-r1

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/

/*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes

-

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Theodore Ts'o
23-June-2007

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c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name  
of author>
```

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```
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```

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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Version 2, June 1991

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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
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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
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which has been distributed under these terms. A "work based on the

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

Activities

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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.

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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

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- 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.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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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

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

```

That's all there is to it!
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image: $(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'/'$(BSD_LIB) $(BSD_LIB)`)

install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)

```

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Upstream-Name: e2fsprogs

Upstream-Contact: Theodore Ts'o <tytso@mit.edu>

Source: <http://sourceforge.net/projects/e2fsprogs>

Comment:

This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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lib/support/print_fs_flags.c
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1.33 libveto 0.3.2-r6

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1.34 busybox 1.37.0-r50

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Julian Seward, Cambridge, UK.

jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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1.39 python-dotenv 1.1.1

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1.40 jaraco-text 3.12.1

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1.41 distro 1.9.0

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1.44 ca-certificates 20250911-r0

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- * C implementation based on the original Perl and shell versions
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1.47 libidn 2.3.8-r3

1.47.1 Available under license :

/* Extract the last component (base name) of a file name.

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```
#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H
```

```
/* This file uses _GL_ATTRIBUTE_PURE. */
#if !_GL_CONFIG_H_INCLUDED
#error "Please include config.h first."
#endif
```

```
#include <stddef.h>
```

```
#ifndef
DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif
```

```
#ifdef __cplusplus
extern "C" {
#endif
```

```
/* Return the address of the last file name component of FILENAME.
   If FILENAME has some trailing slash(es), they are considered to be
   part of the last component.
   If FILENAME has no relative file name components because it is a file
   system root, return the empty string.
   Examples:
```

FILENAME	RESULT
"foo.c"	"foo.c"
"foo/bar.c"	"bar.c"
"/foo/bar.c"	"bar.c"
"foo/bar/"	"bar/"
"foo/bar/"	"bar/"
"/"	""
"//"	""
""	""

The return value is a tail of the given FILENAME; do NOT free() it! */

/* This function was traditionally called 'basename', but we avoid this function name because

* Various platforms have different functions in their libc.

In particular, the glibc basename(), defined in <string.h>, does

not consider trailing slashes to be part of the component:

FILENAME	RESULT
"foo/bar/"	""
"foo/bar/"	""

* The 'basename' command eliminates trailing slashes and for a root produces a non-empty result:

FILENAME	RESULT
"foo/bar/"	"bar"
"foo/bar/"	"bar"
"/"	"/"
"//"	"/"

*/

extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.

Typically FILENAME is the value returned by base_name or last_component.

Act like strlen (FILENAME), except omit all trailing slashes. */

extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;

#ifdef __cplusplus

} /* extern "C" */

#endif

#endif /* _BASENAME_LGPL_H */

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Version 3, 29 June 2007

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1.48 apk-tools 2.14.6-r3

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```

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1.56 pyproject-hooks 1.2.0

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1.58 pandas 2.2.0

1.58.1 Available under license :

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Metadata-Version: 2.1

Name: gspread-pandas

Version: 2.2.0

Summary: A package to easily open an instance of a Google spreadsheet and interact with worksheets through Pandas DataFrames.

Home-page: <https://github.com/aiguofer/gspread-pandas>

Author: Diego Fernandez

Author-email: aiguo.fernandez@gmail.com

License: BSD

Download-URL: <https://github.com/aiguofer/gspread-pandas/tarball/v2.2.0>

Description: =====

Getting Started

=====

.. image:: <https://img.shields.io/pypi/v/gspread-pandas.svg>

:target: <https://pypi.python.org/pypi/gspread-pandas>

:alt: PyPI Version

.. image:: <https://img.shields.io/travis/aiguofer/gspread-pandas.svg>

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.. image:: <https://readthedocs.org/projects/gspread-pandas/badge/?version=latest>
:target: <https://gspread-pandas.readthedocs.io/en/latest/?badge=latest>
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author: Diego Fernandez

Links:

- `Documentation <<http://gspread-pandas.readthedocs.io/>>`_
- `Source code <<https://github.com/aiguofer/gspread-pandas>>`_
- `Short video tutorial <<https://youtu.be/2yIcNYzfzPw>>`_

.. attention:: Upgrading from < 2.0

If you are upgrading, the ``user`` is now an optional param that uses ``default`` as the default. If you're a single user, you might want to re-name your credentials to ``default`` so you can stop specifying it:

.. code-block:: console

```
mv ~/.config/gspread_pandas/creds{<old_name>,default}
```

Overview

=====

A package to easily open an instance of a Google spreadsheet and

interact with worksheets through Pandas DataFrames. It enables you to easily pull data from Google spreadsheets into DataFrames as well as push data into spreadsheets from DataFrames. It leverages `gspread` <<https://github.com/burnash/gspread/>>__ in the backend for most of the heavylifting, but it has a lot of added functionality to handle things specific to working with DataFrames as well as some extra nice to have features.

Some key goals/features:

- Nicely handle headers and indexes
- Run on Jupyter, headless server, and/or scripts
- Allow storing different user credentials or using Service Accounts
- Automatically handle token refreshes
- Enable handling of frozen rows and columns
- Enable handling of merged cells when pulling data
- Nicely handle large data sets and auto-retries
- Enable creation of filters
- Handle retries when

exceeding 100s quota

- When pushing DataFrames with MultiIndex columns, allow merging or flattening headers
- Ability to nicely handle Spreadsheet permissions
- Ability to specify ``ValueInputOption`` and ``ValueRenderOption`` for specific columns

Installation / Usage

=====

To install use pip:

.. code-block:: console

```
$ pip install gspread-pandas
```

Or clone the repo:

.. code-block:: console

```
$ git clone https://github.com/aiguofer/gspread-pandas.git
$ python setup.py install
```

Before using, you will need to download Google client credentials for your app.

Client Credentials

To allow a script to use Google Drive API we need to authenticate our self towards Google. To do so, we need to create a project, describing the tool and generate credentials. Please use your web browser and go to ``Google console <https://console.developers.google.com/>`` and :

- Choose **Create Project** in popup menu on the top.
 - A dialog box appears, so give your project a name and click on **Create** button.
 - On the left-side menu click on **API Manager**.
 - A table of available APIs is shown. Switch **Drive API** and click on **Enable API** button. Do the same for **Sheets API**. Other APIs might be switched off, for our purpose.
 - On the left-side menu click on **Credentials**.
 - In section **OAuth consent screen** select your email address and give your product a name. Then click on **Save** button.
 - In section **Credentials** click on **Add credentials** and switch **OAuth client ID** (if you want to use your own account or enable the use of multiple accounts)
- or **Service account key** (if you prefer to have a service account interacting with spreadsheets).
- If you select **OAuth client ID**:

- Select **Application type** item as **Other** and give it a name.
- Click on **Create** button.
- Click on **Download JSON** icon on the right side of created **OAuth client IDs** and store the downloaded file on your file system.
- If you select **Service account key**
 - Click on **Service account** dropdown and select **New service account**
 - Give it a **Service account name** and ignore the **Role** dropdown (unless you know you need this for something else, it's not necessary for working with spreadsheets)
 - Note the **Service account ID** as you might need to give that user permission to interact with your spreadsheets
 - Leave **Key type** as **JSON**
- Click **Create** and store the downloaded file on your file system.
- Please be aware, the file contains your private credentials, so take care of the file in the same way you care of your private SSH key; Move the downloaded JSON to ```~/config/gspread_pandas/google_secret.json``` (or you can configure the directory and file name by directly calling ```gspread_pandas.conf.get_config```)

Thanks to similar project

`df2gspread` <<https://github.com/maybelinot/df2gspread>>`__ for this great description of how to get the client credentials.

You can read more about it in the `configuration docs

<<https://gspread-pandas.readthedocs.io/en/latest/configuration.html>>`__ including how to change the default behavior.

Example

=====

.. code:: python

```

from __future__ import print_function
import pandas
as pd
from gspread_pandas import Spread, Client

file_name = "http://stats.idre.ucla.edu/stat/data/binary.csv"
df = pd.read_csv(file_name)

# 'Example Spreadsheet' needs to already exist and your user must have access to it
spread = Spread('Example Spreadsheet')
# This will ask to authenticate if you haven't done so before
```

```
# Display available worksheets
spread.sheets

# Save DataFrame to worksheet 'New Test Sheet', create it first if it doesn't exist
spread.df_to_sheet(df, index=False, sheet='New Test Sheet', start='A2', replace=True)
spread.update_cells('A1', 'A1', ['Created by:', spread.email])
print(spread)

# <gsread_pandas.client.Spread - User: '<example_user>@gmail.com', Spread: 'Example Spreadsheet',
Sheet: 'New Test Sheet'>
```

```
# You can now first instantiate a Client separately
and query folders and
# instantiate other Spread objects by passing in the Client
client = Client()
# Assuming you have a dir called 'example dir' with sheets in it
available_sheets = client.find_spreadsheet_files_in_folders('example dir')
spreads = []
for sheet in available_sheets.get('example dir', []):
    spreads.append(Spread(sheet['id'], client=client))
```

Troubleshooting

=====

SSL Error

If you're getting an SSL related error or can't seem to be able to open existing spreadsheets that you have access to, you might be running into an issue caused by ``certifi``. This has mainly been experienced on RHEL and CentOS running Python 2.7. You can read more about it in `issue 223 <<https://github.com/burnash/gspread/issues/223>>`_ and `issue 354 <<https://github.com/burnash/gspread/issues/354>>`_ but, in short, the solution is to either install a specific version of ``certifi`` that works for you, or remove it altogether.

.. code-block:: console

```
pip install certifi==2015.4.28
```

or

.. code-block:: console

```
pip uninstall certifi
```

EOFError in Rodeo

If you're trying to use ``gsread\_pandas`` from within
`Rodeo <<https://www.yhat.com/products/rodeo>>`_ you might get an
``EOFError: EOF when reading a line`` error when trying to pass in the verification
code. The workaround for this is to first verify your account in a regular shell.
Since you're just doing this to get your Oauth token, the spreadsheet doesn't need
to be valid. Just run this in shell:

```
.. code:: python
```

```
python -c "from gsread_pandas import Spread; Spread('<user_key>','")"
```

Then follow the instructions to create and store the OAuth creds.

Keywords: gsread pandas google spreadsheets

Platform: UNKNOWN

Classifier: Development Status :: 4 - Beta

Classifier: Intended Audience :: Developers

Classifier: Intended Audience :: Science/Research

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Provides-Extra: dev

Found in path(s):

* /gsread-pandas-2-2-0-1-tar-gz/gspread-pandas-2.2.0/gspread_pandas.egg-info/PKG-INFO

* /gsread-pandas-2-2-0-1-tar-gz/gspread-pandas-2.2.0/PKG-INFO

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1.59 pkgconf 2.5.1-r1

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1.60 docxcompose 1.4.0

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1.61 six 1.17.0

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1.62 skalibs 2.14.3.0-r0

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1.63 python-decouple 3.8

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1.64 pillow 10.3.0

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Name: badpaletteentry

Columns: 4

#

0 0 0 Index 3

65 38

103 62 49 Index 6

79 73 72 Index 7

114 101 97 Index 8

208 127 100 Index 9

151 144 142 Index 10

221 207 199 Index 11

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Name: Test

Columns: 0

#

GIMP Palette

Name: badpalettefile

Columns: 4

#

0 0 0 Index 3

0123456789012345678901234567890123456789012345678901234567890123456789012
34567890123456789

103 62 49 Index 6

79 73 72 Index 7

114 101 97 Index 8

208 127 100 Index 9

151 144 142 Index 10

221 207 199 Index 11

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

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Columns: 4

#

0 0 0 Index 3

65 38 30 Index 4

103 62 49 Index 6

79 73 72 Index 7

114 101 97 Index 8

208 127 100 Index 9

151 144 142 Index 10

221 207 199 Index 11

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Version 3, 29 June 2007

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1.73 python-pip 25.3

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Before (and including) argparse 1.1, the argparse package was licensed under
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After argparse 1.1, all project files from the argparse project were deleted
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The project repository then had a clean start with some files taken from
Python 2.7.1, so definitely all files are under Python License now.

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<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

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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 (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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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
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
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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 (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Release	Derived from	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
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes

2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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CERTIFICATE-----

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GJTO
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CERTIFICATE-----

-----BEGIN CERTIFICATE-----

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Found in path(s):

* /ca-certificates-bundle-20250911-r0-tar-gz/etc/ssl/certs/ca-certificates.crt

1.75 heimdal-libs 7.8.0-r42

1.75.1 Available under license :

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```
@macro copynext{  
@vskip 20pt plus 1fil  
@end macro
```

```
@macro copyrightstart{  
@end macro
```

```
@macro copyrightend{  
@end macro
```

```
@node Copyrights and Licenses, , Acknowledgments, Top  
@comment node-name, next, previous, up  
@appendix Copyrights and Licenses
```

```
@heading Kungliga Tekniska Hgskolan
```

```
@copyrightstart  
@verbatim
```

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@heading Massachusetts Institute of Technology

The
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Tom's fast math (bignum support) and LibTomMath

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@heading Doug Rabson

GSS-API mechglue layer.

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@table

@asis

@item GSS-API CFX, SPNEGO, naming extensions, API extensions.

@item KCM credential cache.

@item HDB LDAP backend.

@end table

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Fortuna in libhcrypto

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libcrypto

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge.
Thanks to: Dan Hoey for his excellent Initial and Inverse permutation
code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis
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lib/hcrypto/test_dh.c

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1.76 django-password-validators 1.7.3

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1.77 pax-utils 1.3.8-r1

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.78 openssl 3.3.5-r0

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```
# Contributor: Patrycja Rosa <alpine@ptrcnll.me>
# Maintainer: Patrycja Rosa <alpine@ptrcnll.me>
pkgname=bsd-compat-headers
pkgver=0.7.2
pkgrel=6
pkgdesc="BSD compatibility headers (cdefs, queue, tree)"
```

```

url="https://gitlab.alpinelinux.org/alpine/aports"
arch="noarch"
license="BSD-2-Clause AND BSD-3-Clause"
source="
cdefs.h
queue.h
tree.h
"
bulldir="$srcdir"
options="!check" # just headers

package() {
mkdir -p "$pkgdir"
install -Dm644 -t "$pkgdir"/usr/include/sys \
cdefs.h queue.h tree.h
}
sha512sums="
37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312
7006442c3f019b6447a620c0cae73178 cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750 queue.h
d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2da
cef2092881eded0a2e94f6a07752ef3 tree.h
"

```

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 The Kohonen neural network code for color optimization was written by Anthony Dekker.

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The X-Spline code was written Carole Blanc (blanc@labri.u-bordeaux.fr) and Christophe Schlick (schlick@labri.u-bordeaux.fr) starting from an initial implementation done by C. Feuille, S. Grosbois, L. Maziere and L. Minihot as a student practice (Universite Bordeaux, France). For additional information about X-splines, see:

"X-Splines: A Spline Model Designed for the End User" by C. Blanc and C. Schlick, Proceedings of SIGGRAPH'95

<http://dept-info.labri.u-bordeaux.fr/~schlick/DOC/sig1.html>

Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>

Maintainer: Kevin Daudt <kdaudt@alpinelinux.org>

pkgname=spdx-licenses

pkgver=3.22

pkgrel=1

pkgdesc="Various data formats for the SPDX License List"

url="https://spdx.org/"

arch="noarch"

options="!check" # no test suite

license="CC-BY-3.0"

source="license-list-data-\$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v\$pkgver.tar.gz"

builddir="\$srcdir/license-list-data-\$pkgver"

subpackages="\$pkgname-list"

_types="html json rdfa rdft rdfturtle rdfxml template text"

for type in \$_types; do

subpackages="\$subpackages \$pkgname-\$type:_subpkg"

done

package() {

mkdir -p "\$pkgdir"

}

_subpkg() {

local type=\${subpkgname/\$pkgname-/}

pkgdesc="\$pkgdesc (\$type)"

install_if="\$pkgname=\$pkgver-r\$pkgrel"

mkdir -p "\$subpkgdir"/usr/share/spdx

cp -r "\$builddir"/\$type "\$subpkgdir"/usr/share/spdx/

}

list() {

pkgdesc="\$pkgdesc (licence list)"

mkdir -p "\$subpkgdir"/usr/share/spdx

local i; for i in "\$builddir"/text/*.txt; do

local

license=\${i##*/}

echo \${license%.*} >> "\$subpkgdir"/usr/share/spdx/license.lst

done

}

sha512sums="

b213fe66699770d75a4c994a01a5c08325751423516c2fb871088a47e7e7ce605736064f5ce3a63dc1d3c462271832db
7bc464ac968df1888f9823787964c786 license-list-data-3.22.tar.gz

"

Contributor: Maxim Karasev <begs@disroot.org>

Maintainer: mio <miyopan@e.email>

pkgname=bsd-games

pkgver=3.3

pkgrel=1

pkgdesc="traditional text mode games from BSD"

url="https://bsd-games.sourceforge.io/"

arch="all"

license="BSD-3-Clause"

install="\$pkgname.post-install"

makedepends="ncurses-dev coreutils" # configure causes busybox expr error

subpackages="\$pkgname-doc"

source="https://sourceforge.net/projects/bsd-games/files/bsd-games-\$pkgver.tar.gz"

options="!check" # no tests

build() {

some GNU autoconf options are ignored, but it works

./configure \

--build=\$CBUILD \

--host=\$CHOST \

--prefix=/usr \

--sysconfdir=/etc \

--mandir=/usr/share/man \

--localstatedir=/var/lib # it really shouldn't be in /var

make

}

package() {

make DESTDIR="\$pkgdir" install

install -Dm644 LICENSE "\$pkgdir"/usr/share/licenses/bsd-games/LICENSE

}

sha512sums="

aaf36d09d4fe68514a5c279063d7e77a9a9a84c447037cba974b29faa07eb80c2aab2379d0699c196b5c27ffe1b2bb2c6

8d3390143e0e62d5e3d210ccfb61294

bsd-games-3.3.tar.gz

"

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attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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necessary. Here a sample; alter
the names:

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at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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```
# Contributor: Dhruvin Gandhi <contact@dhruvin.dev>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=py3-license-expression
_pkgname=license-expression
pkgver=30.3.0
pkgrel=1
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
url="https://github.com/nexB/license-expression"
arch="noarch"
license="Apache-2.0"
depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gp517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/l/_pkgname/_pkgname-$pkgver.tar.gz"
builddir="$srcdir/$_pkgname-$pkgver"

build() {
    gp517 build-wheel \
        --wheel-dir .dist \
        --output-fd 3 3>&1 >&2
}

check() {
    python3 -m venv --clear --without-pip --system-site-packages .testenv
    .testenv/bin/python3 -m installer .dist/*.whl
    .testenv/bin/python3 -m pytest
}

package() {
    python3 -m installer -d "$pkgdir" \
        .dist/*.whl
}

sha512sums="
3fe4ac8830085fe38d8ee713a332047941b2a7a8ff5f31810b124c5903335a8343a222926aefe000da66a49b4d6f8b934
af3cc350448b075a4ec6aa1fdb51aef
    license-expression-30.3.0.tar.gz
"
```

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```
# Automatically generated by apkbuild-cpan, template 4
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Celeste <cielesti@protonmail.com>
pkgname=perl-bsd-resource
pkgver=1.2911
pkgrel=9
#_pkgreal is used by apkbuild-cpan to find modules at MetaCpan
_pkgreal=BSD-Resource
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource/"
arch="all"
```

```

license="Artistic-2.0 OR LGPL-2.0"
depends="perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/BSD-Resource-$pkgver.tar.gz"
builddir="$srcdir/$_pkgreal-$pkgver"

build() {
    export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
    PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL \
        INSTALLDIRS=vendor \
        NO_PACKLIST=1 \
        NO_PERLLOCAL=1
    make
}

check() {
    export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
    make test
}

package() {
    make DESTDIR="$pkgdir" install
}

sha512sums="
d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16dfa5417f663b
8065ba65f4fea16dc9262728b3b6b85
    BSD-Resource-1.2911.tar.gz
"

Vintage Dreams Waves v 2.0. for Creative Labs' AWE Soundcards
(EMU Soundfont 2 Format)

```

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mini_sendmail - accept email on behalf of real sendmail

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Maintainer: Natanael Copa <ncopa@alpinelinux.org>

pkgname=libart-lgpl

pkgver=2.3.21

pkgrel=8

pkgdesc="A library for high-performance 2D graphics"

url="https://www.levien.com/libart/"

arch="all"

options="!check" # No test suite.

license="LGPL-2.0-or-later"

subpackages="\$pkgname-dev"

source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-\$pkgver.tar.bz2"

"

builddir="\$srcdir"/libart_lgpl-\$pkgver

```
prepare() {  
    update_config_sub  
    default_prepare  
}
```

```
build() {  
    ./configure \\  
    --build=$CBUILD \\  
    --host=$CHOST \\  
    --prefix=/usr  
    make  
}
```

```
package() {  
    make DESTDIR="$pkgdir" install  
}
```

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e76654309e001aee9bace727b5b4c8589405256a3c020 libart_lgpl-2.3.21.tar.bz2"

1.79 attr 2.5.2-r2

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Version 2.1, February 1999

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1.82 autocommand 2.2.2

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1.83 jaraco.text 3.12.1

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1.84 alpine-base 3.21.5-r0

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1.85 et-xmlfile 2.0.0

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This module includes corrections and new features as follows:

- Correct handling of attributes namespaces when a default namespace has been registered.
- Records the namespaces for an Element during parsing and utilises them to allow inspection of namespaces at specific elements in the xml tree and during serialisation.

Misc:

- Includes the test_xml_etree with small modifications for testing the modifications in this package.

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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 <https://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 <https://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 <https://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.

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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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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.86 python-requests 2.32.5

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1.87 django-cryptography-5 2.0.3

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1.88 tre 0.8.0-r2

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1.89 python-docx 1.1.0

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1.90 alpine-release 3.21.5-r0

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```
# Automatically generated by apkbuild-cpan, template 4
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Celeste <cielesti@protonmail.com>
maintainer="Celeste <cielesti@protonmail.com>"
pkgname=perl-bsd-resource
pkgver=1.2911
pkgrel=11
#_pkgreal is used by apkbuild-cpan to find modules at MetaCpan
_pkgreal=BSD-Resource
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource/"
arch="all"
license="Artistic-2.0 OR LGPL-2.0"
depends="perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/BSD-Resource-$pkgver.tar.gz"
buildid="$srcdir/${_pkgreal}-${pkgver}"

build() {
    export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
    PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL \
        INSTALLDIRS=vendor \
        NO_PACKLIST=1 \
        NO_PERLLOCAL=1
    make
}

check() {
    export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
    make test
}
```

```

package() {
    make DESTDIR="$pkgdir" install
}

sha512sums="
d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16dfa5417f663b
8065ba65f4fea16dc9262728b3b6b85
    BSD-Resource-1.2911.tar.gz
"

# MIT License

```

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```
#!/sbin/openrc-run
```

```

command="/usr/libexec/xdg-permission-store"
supervisor=supervise-daemon
command_args="--replace $command_args"
error_logger="logger -t '${RC_SVCNAME}' -p daemon.error"

```

```

depend() {
    need dbus
}

# Contributor: Maxim Karasev <begs@disroot.org>
# Maintainer: mio <miyopan@e.email>
pkgname=bsd-games
pkgver=3.3
pkgrel=2
pkgdesc="traditional text mode games from BSD"
url="https://bsd-games.sourceforge.io/"

```

```

arch="all"
license="BSD-3-Clause"
install="$pkgname.post-install"
makedepends="ncurses-dev coreutils" # configure causes busybox expr error
subpackages="$pkgname-doc"
source="https://sourceforge.net/projects/bsd-games/files/bsd-games-$pkgver.tar.gz
0001-bsd-games-scores-dir.patch
"

options="!check" # no tests

build() {
    # some GNU autoconf options are ignored, but it works
    ./configure \
        --build=$CBUILD \
        --host=$CHOST \
        --prefix=/usr \
        --sysconfdir=/etc \
        --mandir=/usr/share/man \
        --sourcedir=/usr/share/$pkgname
    make
}

package() {
    make DESTDIR="$pkgdir" install
    install -Dm644 LICENSE "$pkgdir"/usr/share/licenses/bsd-games/LICENSE
}

sha512sums="
aaf36d09d4fe68514a5c279063d7e77a9a9a84c447037cba974b29faa07eb80c2aab2379d0699c196b5c27ffe1b2bb2c6
8d3390143e0e62d5e3d210ccfb61294
    bsd-games-3.3.tar.gz
e1def0d4835a877242c4173fae862e278a7858738e0bacacbb045a42bcabec2aa7c72d000bbd2421ce35fe66cdc1f52c0
577b7e278029ca5ed50f7aab22319f6 0001-bsd-games-scores-dir.patch
"

# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=8
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check" # No test suite.
license="LGPL-2.0-or-later"
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart-lgpl/2.3/libart-lgpl-$pkgver.tar.bz2
"

builddir="$srcdir"/libart-lgpl-$pkgver

```

```
prepare() {
    update_config_sub
    default_prepare
}
```

```
build() {
    ./configure \
    --build=$CBUILD \
    --host=$CHOST \
    --prefix=/usr
    make
}
```

```
package() {
    make DESTDIR="$pkgdir" install
}
```

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e76654309e001aee9bace727b5b4c8589405256a3c020 libart_lgpl-2.3.21.tar.bz2"

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The text rotation code in w_rottext.c was written by Alan Richardson.

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The Kohonen neural network code for color optimization was written by Anthony Dekker.

Parts Copyright (c) 1995 by C. Blanc and C. Schlick

The X-Spline code was written Carole Blanc (blanc@labri.u-bordeaux.fr) and Christophe Schlick (schlick@labri.u-bordeaux.fr) starting from an initial implementation done by C. Feuille, S. Grosbois, L. Maziere and L. Minihot as a student practice (Universite Bordeaux, France). For additional information about X-splines, see:

"X-Splines: A Spline Model Designed for the End User" by C. Blanc and C. Schlick, Proceedings of SIGGRAPH'95

```

http://dept-info.labri.u-bordeaux.fr/~schlick/DOC/sig1.html
/* $NetBSD: tree.h,v 1.20 2013/09/14 13:20:45 joerg Exp $ */
/* $OpenBSD: tree.h,v 1.13 2011/07/09 00:19:45 pirofti Exp $ */
/* Modified by Void Linux. */
/*
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 */

#ifndef _SYS_TREE_H_
#define _SYS_TREE_H_

#ifdef __GNUC__
#define __GNUC_PREREQ__(x, y) \
    ((__GNUC__ == (x) && __GNUC_MINOR__ >= (y)) || \
     (__GNUC__ > (x)))
#else
#define __GNUC_PREREQ__(x, y) 0
#endif

#if __GNUC_PREREQ__(2, 7) || defined(__lint__)
#define _sys_tree_h_unused __attribute__((__unused__))
#else
#define _sys_tree_h_unused /* delete */
#endif

/*

```

- * This file defines data structures for different types of trees:
- * splay trees and red-black trees.
- *
- * A splay tree is a self-organizing data structure. Every operation on the tree causes a splay to happen. The splay moves the requested node to the root of the tree and partly rebalances it.
- *
- * This has the benefit that request locality causes faster lookups as the requested nodes move to the top of the tree. On the other hand, every lookup causes memory writes.
- *
- * The Balance Theorem bounds the total access time for m operations and n inserts on an initially empty tree as $O((m + n)\lg n)$. The amortized cost for a sequence of m accesses to a splay tree is $O(\lg n)$;
- *
- * A red-black tree is a binary search tree with the node color as an extra attribute. It fulfills a set of conditions:
- * - every search path from the root to a leaf consists of the same number of black nodes,
- * - each red node (except for the root) has a black parent,
- * - each leaf node is black.
- *
- * Every operation on a red-black tree is bounded as $O(\lg n)$.
- * The maximum height of a red-black tree is $2\lg(n+1)$.
- */

```
#define SPLAY_HEAD(name, type) \
struct name { \
    struct type *sph_root; /* root of the tree */ \
}
```

```
#define SPLAY_INITIALIZER(root) \
{ NULL }
```

```
#define SPLAY_INIT(root) do { \
    (root)->sph_root = NULL; \
} while (/*CONSTCOND*/ 0)
```

```
#define SPLAY_ENTRY(type) \
struct { \
    struct type *spe_left; /* left element */ \
    struct type *spe_right; /* right element */ \
}
```

```
#define SPLAY_LEFT(elm, field) (elm)->field.spe_left
#define SPLAY_RIGHT(elm, field) (elm)->field.spe_right
#define SPLAY_ROOT(head) (head)->sph_root
```

```

#define SPLAY_EMPTY(head) (SPLAY_ROOT(head) == NULL)

/* SPLAY_ROTATE_{LEFT,RIGHT} expect that tmp hold SPLAY_{RIGHT,LEFT} */
#define SPLAY_ROTATE_RIGHT(head, tmp, field) do { \
    SPLAY_LEFT((head)->sph_root, field) = SPLAY_RIGHT(tmp, field); \
    SPLAY_RIGHT(tmp, field) = (head)->sph_root; \
    (head)->sph_root = tmp; \
} while (/*CONSTCOND*/ 0)

#define SPLAY_ROTATE_LEFT(head, tmp, field) do { \
    SPLAY_RIGHT((head)->sph_root, \
    field) = SPLAY_LEFT(tmp, field); \
    SPLAY_LEFT(tmp, field) = (head)->sph_root; \
    (head)->sph_root = tmp; \
} while (/*CONSTCOND*/ 0)

#define SPLAY_LINKLEFT(head, tmp, field) do { \
    SPLAY_LEFT(tmp, field) = (head)->sph_root; \
    tmp = (head)->sph_root; \
    (head)->sph_root = SPLAY_LEFT((head)->sph_root, field); \
} while (/*CONSTCOND*/ 0)

#define SPLAY_LINKRIGHT(head, tmp, field) do { \
    SPLAY_RIGHT(tmp, field) = (head)->sph_root; \
    tmp = (head)->sph_root; \
    (head)->sph_root = SPLAY_RIGHT((head)->sph_root, field); \
} while (/*CONSTCOND*/ 0)

#define SPLAY_ASSEMBLE(head, node, left, right, field) do { \
    SPLAY_RIGHT(left, field) = SPLAY_LEFT((head)->sph_root, field); \
    SPLAY_LEFT(right, field) = SPLAY_RIGHT((head)->sph_root, field); \
    SPLAY_LEFT((head)->sph_root, field) = SPLAY_RIGHT(node, field); \
    SPLAY_RIGHT((head)->sph_root, field) = SPLAY_LEFT(node, field); \
} while (/*CONSTCOND*/ 0)

/* Generates prototypes and inline functions */

#define
    SPLAY_PROTOTYPE(name, type, field, cmp) \
    void name##_SPLAY(struct name *, struct type *); \
    void name##_SPLAY_MINMAX(struct name *, int); \
    struct type *name##_SPLAY_INSERT(struct name *, struct type *); \
    struct type *name##_SPLAY_REMOVE(struct name *, struct type *); \
    \
    /* Finds the node with the same key as elm */ \
    static __inline struct type * \
    name##_SPLAY_FIND(struct name *head, struct type *elm) \
    { \

```

```

if (SPLAY_EMPTY(head)) \
    return(NULL); \
name##_SPLAY(head, elm); \
if ((cmp)(elm, (head)->sph_root) == 0) \
    return (head->sph_root); \
return (NULL); \
} \
\
static __inline __sys_tree_h_unused struct type * \
name##_SPLAY_NEXT(struct name *head, struct type *elm) \
{ \
    name##_SPLAY(head, elm); \
    if (SPLAY_RIGHT(elm, field) != NULL) { \
        elm = SPLAY_RIGHT(elm, field); \
        while (SPLAY_LEFT(elm, field) != NULL) { \
            elm = SPLAY_LEFT(elm, field); \
        } \
    } \
    else \
        elm = NULL; \
    return (elm); \
} \
\
static __sys_tree_h_unused __inline struct type * \
name##_SPLAY_MIN_MAX(struct name *head, int val) \
{ \
    name##_SPLAY_MINMAX(head, val); \
    return (SPLAY_ROOT(head)); \
}

/* Main splay operation.
 * Moves node close to the key of elm to top
 */
#define SPLAY_GENERATE(name, type, field, cmp) \
struct type * \
name##_SPLAY_INSERT(struct name *head, struct type *elm) \
{ \
    if (SPLAY_EMPTY(head)) { \
        SPLAY_LEFT(elm, field) = SPLAY_RIGHT(elm, field) = NULL; \
    } else { \
        int __comp; \
        name##_SPLAY(head, elm); \
        __comp = (cmp)(elm, (head)->sph_root); \
        if (__comp < 0) { \
            SPLAY_LEFT(elm, field) = SPLAY_LEFT((head)->sph_root, field); \
            SPLAY_RIGHT(elm, field) = (head)->sph_root; \
            SPLAY_LEFT((head)->sph_root, field) = NULL; \
        } else if (__comp > 0) { \

```



```

        SPLAY_RIGHT(elm,
field) = SPLAY_RIGHT((head)->sph_root, field);\
        SPLAY_LEFT(elm, field) = (head)->sph_root; \
        SPLAY_RIGHT((head)->sph_root, field) = NULL; \
    } else \
        return ((head)->sph_root); \
} \
(head)->sph_root = (elm); \
return (NULL); \
} \
\
struct type * \
name##_SPLAY_REMOVE(struct name *head, struct type *elm) \
{ \
    struct type *__tmp; \
    if (SPLAY_EMPTY(head)) \
        return (NULL); \
    name##_SPLAY(head, elm); \
    if ((cmp)(elm, (head)->sph_root) == 0) { \
        if (SPLAY_LEFT((head)->sph_root, field) == NULL) { \
            (head)->sph_root = SPLAY_RIGHT((head)->sph_root, field);\
        } else { \
            __tmp = SPLAY_RIGHT((head)->sph_root, field);\
            (head)->sph_root = SPLAY_LEFT((head)->sph_root, field);\
            name##_SPLAY(head, elm); \
            SPLAY_RIGHT((head)->sph_root, field) = __tmp; \
        } \
        return (elm); \
    } \
    return (NULL); \
} \
\
void \
name##_SPLAY(struct
name *head, struct type *elm) \
{ \
    struct type __node, *__left, *__right, *__tmp; \
    int __comp; \
    \
    SPLAY_LEFT(&__node, field) = SPLAY_RIGHT(&__node, field) = NULL;\
    __left = __right = &__node; \
    \
    while ((__comp = (cmp)(elm, (head)->sph_root)) != 0) { \
        if (__comp < 0) { \
            __tmp = SPLAY_LEFT((head)->sph_root, field);\
            if (__tmp == NULL) \
                break; \
            if ((cmp)(elm, __tmp) < 0){ \

```

```

    SPLAY_ROTATE_RIGHT(head, __tmp, field); \
    if (SPLAY_LEFT((head)->sph_root, field) == NULL)\
        break; \
} \
SPLAY_LINKLEFT(head, __right, field); \
} else if (__comp > 0) { \
    __tmp = SPLAY_RIGHT((head)->sph_root, field); \
    if (__tmp == NULL) \
        break; \
    if ((cmp)(elm, __tmp) > 0){ \
        SPLAY_ROTATE_LEFT(head, __tmp, field); \
        if (SPLAY_RIGHT((head)->sph_root, field) == NULL)\
            break; \
    } \
    SPLAY_LINKRIGHT(head, __left, field); \
} \
} \
SPLAY_ASSEMBLE(head,
&__node, __left, __right, field); \
} \
\
/* Splay with either the minimum or the maximum element \
* Used to find minimum or maximum element in tree. \
*/ \
void name##_SPLAY_MINMAX(struct name *head, int __comp) \
{ \
    struct type __node, *__left, *__right, *__tmp; \
    \
    SPLAY_LEFT(&__node, field) = SPLAY_RIGHT(&__node, field) = NULL;\
    __left = __right = &__node; \
    \
    while (1) { \
        if (__comp < 0) { \
            __tmp = SPLAY_LEFT((head)->sph_root, field); \
            if (__tmp == NULL) \
                break; \
            if (__comp < 0){ \
                SPLAY_ROTATE_RIGHT(head, __tmp, field); \
                if (SPLAY_LEFT((head)->sph_root, field) == NULL)\
                    break; \
            } \
            SPLAY_LINKLEFT(head, __right, field); \
        } else if (__comp > 0) { \
            __tmp = SPLAY_RIGHT((head)->sph_root, field); \
            if (__tmp == NULL) \
                break; \
            if (__comp > 0) { \
                SPLAY_ROTATE_LEFT(head, __tmp, field); \

```

```

    if (SPLAY_RIGHT((head)->sph_root,
field) == NULL)\
    break;  \
}  \
SPLAY_LINKRIGHT(head, __left, field); \
}  \
}  \
SPLAY_ASSEMBLE(head, &__node, __left, __right, field); \
}

#define SPLAY_NEGINF -1
#define SPLAY_INF 1

#define SPLAY_INSERT(name, x, y) name##_SPLAY_INSERT(x, y)
#define SPLAY_REMOVE(name, x, y) name##_SPLAY_REMOVE(x, y)
#define SPLAY_FIND(name, x, y) name##_SPLAY_FIND(x, y)
#define SPLAY_NEXT(name, x, y) name##_SPLAY_NEXT(x, y)
#define SPLAY_MIN(name, x) (SPLAY_EMPTY(x) ? NULL \
    : name##_SPLAY_MIN_MAX(x, SPLAY_NEGINF))
#define SPLAY_MAX(name, x) (SPLAY_EMPTY(x) ? NULL \
    : name##_SPLAY_MIN_MAX(x, SPLAY_INF))

#define SPLAY_FOREACH(x, name, head)  \
for ((x) = SPLAY_MIN(name, head);  \
    (x) != NULL;  \
    (x) = SPLAY_NEXT(name, head, x))

/* Macros that define a red-black tree */
#define RB_HEAD(name, type)  \
struct name {  \
    struct type *rbh_root; /* root of the tree */  \
}

#define RB_INITIALIZER(root)  \
{  \
    NULL }

#define RB_INIT(root) do {  \
    (root)->rbh_root = NULL;  \
} while (/*CONSTCOND*/ 0)

#define RB_BLACK 0
#define RB_RED 1
#define RB_ENTRY(type)  \
struct {  \
    struct type *rbe_left; /* left element */  \
    struct type *rbe_right; /* right element */  \
    struct type *rbe_parent; /* parent element */  \
}

```

```

int rbe_color; /* node color */ \
}

#define RB_LEFT(elm, field) (elm)->field.rbe_left
#define RB_RIGHT(elm, field) (elm)->field.rbe_right
#define RB_PARENT(elm, field) (elm)->field.rbe_parent
#define RB_COLOR(elm, field) (elm)->field.rbe_color
#define RB_ROOT(head) (head)->rbh_root
#define RB_EMPTY(head) (RB_ROOT(head) == NULL)

#define RB_SET(elm, parent, field) do { \
    RB_PARENT(elm, field) = parent; \
    RB_LEFT(elm, field) = RB_RIGHT(elm, field) = NULL; \
    RB_COLOR(elm, field) = RB_RED; \
} while (/*CONSTCOND*/ 0)

#define RB_SET_BLACKRED(black, red, field) do { \
    RB_COLOR(black, field) = RB_BLACK; \
    RB_COLOR(red, field) \
    = RB_RED; \
} while (/*CONSTCOND*/ 0)

#ifndef RB_AUGMENT
#define RB_AUGMENT(x) do {} while (/*CONSTCOND*/ 0)
#endif

#define RB_ROTATE_LEFT(head, elm, tmp, field) do { \
    (tmp) = RB_RIGHT(elm, field); \
    if ((RB_RIGHT(elm, field) = RB_LEFT(tmp, field)) != NULL) { \
        RB_PARENT(RB_LEFT(tmp, field), field) = (elm); \
    } \
    RB_AUGMENT(elm); \
    if ((RB_PARENT(tmp, field) = RB_PARENT(elm, field)) != NULL) { \
        if ((elm) == RB_LEFT(RB_PARENT(elm, field), field)) \
            RB_LEFT(RB_PARENT(elm, field), field) = (tmp); \
        else \
            RB_RIGHT(RB_PARENT(elm, field), field) = (tmp); \
    } else \
        (head)->rbh_root = (tmp); \
    RB_LEFT(tmp, field) = (elm); \
    RB_PARENT(elm, field) = (tmp); \
    RB_AUGMENT(tmp); \
    if ((RB_PARENT(tmp, field))) \
        RB_AUGMENT(RB_PARENT(tmp, field)); \
} while (/*CONSTCOND*/ 0)

#define RB_ROTATE_RIGHT(head, elm, tmp, field) do { \
    (tmp) = RB_LEFT(elm, field); \

```

```

if ((RB_LEFT(elm, field) = RB_RIGHT(tmp, field))
!= NULL) { \
    RB_PARENT(RB_RIGHT(tmp, field), field) = (elm); \
} \
RB_AUGMENT(elm); \
if ((RB_PARENT(tmp, field) = RB_PARENT(elm, field)) != NULL) { \
    if ((elm) == RB_LEFT(RB_PARENT(elm, field), field)) \
        RB_LEFT(RB_PARENT(elm, field), field) = (tmp); \
    else \
        RB_RIGHT(RB_PARENT(elm, field), field) = (tmp); \
} else \
    (head)->rbh_root = (tmp); \
RB_RIGHT(tmp, field) = (elm); \
RB_PARENT(elm, field) = (tmp); \
RB_AUGMENT(tmp); \
if ((RB_PARENT(tmp, field))) \
    RB_AUGMENT(RB_PARENT(tmp, field)); \
} while (/*CONSTCOND*/ 0)

/* Generates prototypes and inline functions */
#define RB_PROTOTYPE(name, type, field, cmp) \
    RB_PROTOTYPE_INTERNAL(name, type, field, cmp,)
#define RB_PROTOTYPE_STATIC(name, type, field, cmp) \
    RB_PROTOTYPE_INTERNAL(name, type, field, cmp, _sys_tree_h_unused static)
#define RB_PROTOTYPE_INTERNAL(name, type, field, cmp, attr) \
    attr void name##_RB_INSERT_COLOR(struct name *, struct \
    type *); \
    attr void name##_RB_REMOVE_COLOR(struct name *, struct type *, struct type *);\
    attr struct type *name##_RB_REMOVE(struct name *, struct type *); \
    attr struct type *name##_RB_INSERT(struct name *, struct type *); \
    attr struct type *name##_RB_FIND(struct name *, struct type *); \
    attr struct type *name##_RB_NFIND(struct name *, struct type *); \
    attr struct type *name##_RB_NEXT(struct type *); \
    attr struct type *name##_RB_PREV(struct type *); \
    attr struct type *name##_RB_MINMAX(struct name *, int); \
    \

/* Main rb operation.
* Moves node close to the key of elm to top
*/
#define RB_GENERATE(name, type, field, cmp) \
    RB_GENERATE_INTERNAL(name, type, field, cmp,)
#define RB_GENERATE_STATIC(name, type, field, cmp) \
    RB_GENERATE_INTERNAL(name, type, field, cmp, _sys_tree_h_unused static)
#define RB_GENERATE_INTERNAL(name, type, field, cmp, attr) \
    attr void \
    name##_RB_INSERT_COLOR(struct name *head, struct type *elm) \
    { \

```

```

struct type
*parent, *gparent, *tmp; \
while ((parent = RB_PARENT(elm, field)) != NULL && \
    RB_COLOR(parent, field) == RB_RED) { \
    gparent = RB_PARENT(parent, field); \
    if (parent == RB_LEFT(gparent, field)) { \
        tmp = RB_RIGHT(gparent, field); \
        if (tmp && RB_COLOR(tmp, field) == RB_RED) { \
            RB_COLOR(tmp, field) = RB_BLACK; \
            RB_SET_BLACKRED(parent, gparent, field); \
            elm = gparent; \
            continue; \
        } \
        if (RB_RIGHT(parent, field) == elm) { \
            RB_ROTATE_LEFT(head, parent, tmp, field); \
            tmp = parent; \
            parent = elm; \
            elm = tmp; \
        } \
        RB_SET_BLACKRED(parent, gparent, field); \
        RB_ROTATE_RIGHT(head, gparent, tmp, field); \
    } else { \
        tmp = RB_LEFT(gparent, field); \
        if (tmp && RB_COLOR(tmp, field) == RB_RED) { \
            RB_COLOR(tmp, field) = RB_BLACK; \
            RB_SET_BLACKRED(parent, gparent, field); \
            elm = gparent; \
            continue; \
        } \
        if (RB_LEFT(parent, field) == elm) \
    { \
        RB_ROTATE_RIGHT(head, parent, tmp, field); \
        tmp = parent; \
        parent = elm; \
        elm = tmp; \
    } \
    RB_SET_BLACKRED(parent, gparent, field); \
    RB_ROTATE_LEFT(head, gparent, tmp, field); \
    } \
    } \
    RB_COLOR(head->rbh_root, field) = RB_BLACK; \
} \
\
attr void \
name##_RB_REMOVE_COLOR(struct name *head, struct type *parent, struct type *elm) \
{ \
    struct type *tmp; \
    while ((elm == NULL || RB_COLOR(elm, field) == RB_BLACK) && \

```

```

    elm != RB_ROOT(head)) { \
if (RB_LEFT(parent, field) == elm) { \
    tmp = RB_RIGHT(parent, field); \
if (RB_COLOR(tmp, field) == RB_RED) { \
    RB_SET_BLACKRED(tmp, parent, field); \
    RB_ROTATE_LEFT(head, parent, tmp, field);\
    tmp = RB_RIGHT(parent, field); \
} \
if ((RB_LEFT(tmp, field) == NULL || \
    RB_COLOR(RB_LEFT(tmp, field), field) == RB_BLACK) &&\
    (RB_RIGHT(tmp, field) == NULL || \
    RB_COLOR(RB_RIGHT(tmp,
field), field) == RB_BLACK)) {\
    RB_COLOR(tmp, field) = RB_RED; \
    elm = parent; \
    parent = RB_PARENT(elm, field); \
} else { \
if (RB_RIGHT(tmp, field) == NULL || \
    RB_COLOR(RB_RIGHT(tmp, field), field) == RB_BLACK) {\
    struct type *oleft; \
if ((oleft = RB_LEFT(tmp, field)) \
    != NULL) \
    RB_COLOR(oleft, field) = RB_BLACK;\
    RB_COLOR(tmp, field) = RB_RED; \
    RB_ROTATE_RIGHT(head, tmp, oleft, field);\
    tmp = RB_RIGHT(parent, field); \
} \
    RB_COLOR(tmp, field) = RB_COLOR(parent, field);\
    RB_COLOR(parent, field) = RB_BLACK; \
if (RB_RIGHT(tmp, field)) \
    RB_COLOR(RB_RIGHT(tmp, field), field) = RB_BLACK;\
    RB_ROTATE_LEFT(head, parent, tmp, field);\
    elm = RB_ROOT(head); \
    break; \
} \
} else { \
    tmp = RB_LEFT(parent, field); \
if (RB_COLOR(tmp, field) == RB_RED) { \
    RB_SET_BLACKRED(tmp, parent, field); \
    RB_ROTATE_RIGHT(head, parent, tmp, field);\
    tmp
= RB_LEFT(parent, field); \
} \
if ((RB_LEFT(tmp, field) == NULL || \
    RB_COLOR(RB_LEFT(tmp, field), field) == RB_BLACK) &&\
    (RB_RIGHT(tmp, field) == NULL || \
    RB_COLOR(RB_RIGHT(tmp, field), field) == RB_BLACK)) {\
    RB_COLOR(tmp, field) = RB_RED; \

```

```

    elm = parent; \
    parent = RB_PARENT(elm, field); \
} else { \
    if (RB_LEFT(tmp, field) == NULL || \
        RB_COLOR(RB_LEFT(tmp, field), field) == RB_BLACK) {\
        struct type *oright; \
        if ((oright = RB_RIGHT(tmp, field)) \
            != NULL) \
            RB_COLOR(oright, field) = RB_BLACK;\
        RB_COLOR(tmp, field) = RB_RED; \
        RB_ROTATE_LEFT(head, tmp, oright, field);\
        tmp = RB_LEFT(parent, field); \
    } \
    RB_COLOR(tmp, field) = RB_COLOR(parent, field);\
    RB_COLOR(parent, field) = RB_BLACK; \
    if (RB_LEFT(tmp, field)) \
        RB_COLOR(RB_LEFT(tmp, field), field) = RB_BLACK;\
    RB_ROTATE_RIGHT(head, parent, tmp, field);\
    elm = RB_ROOT(head); \
    break; \
} \
} \
} \
if
(elm) \
    RB_COLOR(elm, field) = RB_BLACK; \
} \
\
attr struct type * \
name##_RB_REMOVE(struct name *head, struct type *elm) \
{ \
    struct type *child, *parent, *old = elm; \
    int color; \
    if (RB_LEFT(elm, field) == NULL) \
        child = RB_RIGHT(elm, field); \
    else if (RB_RIGHT(elm, field) == NULL) \
        child = RB_LEFT(elm, field); \
    else { \
        struct type *left; \
        elm = RB_RIGHT(elm, field); \
        while ((left = RB_LEFT(elm, field)) != NULL) \
            elm = left; \
        child = RB_RIGHT(elm, field); \
        parent = RB_PARENT(elm, field); \
        color = RB_COLOR(elm, field); \
        if (child) \
            RB_PARENT(child, field) = parent; \
        if (parent) { \

```



```

if (RB_LEFT(parent, field) == elm) \
    RB_LEFT(parent, field) = child; \
else \
    RB_RIGHT(parent, field) = child; \
RB_AUGMENT(parent); \
} else \
    RB_ROOT(head)
= child; \
if (RB_PARENT(elm, field) == old) \
    parent = elm; \
(elm)->field = (old)->field; \
if (RB_PARENT(old, field)) { \
    if (RB_LEFT(RB_PARENT(old, field), field) == old)\
        RB_LEFT(RB_PARENT(old, field), field) = elm;\
    else \
        RB_RIGHT(RB_PARENT(old, field), field) = elm;\
    RB_AUGMENT(RB_PARENT(old, field)); \
} else \
    RB_ROOT(head) = elm; \
RB_PARENT(RB_LEFT(old, field), field) = elm; \
if (RB_RIGHT(old, field)) \
    RB_PARENT(RB_RIGHT(old, field), field) = elm; \
if (parent) { \
    left = parent; \
    do { \
        RB_AUGMENT(left); \
    } while ((left = RB_PARENT(left, field)) != NULL); \
} \
goto color; \
} \
parent = RB_PARENT(elm, field); \
color = RB_COLOR(elm, field); \
if (child) \
    RB_PARENT(child, field) = parent; \
if (parent) { \
    if (RB_LEFT(parent, field) == elm) \
        RB_LEFT(parent, field) = child; \
    else \
        RB_RIGHT(parent,
field) = child; \
    RB_AUGMENT(parent); \
} else \
    RB_ROOT(head) = child; \
color: \
if (color == RB_BLACK) \
    name##_RB_REMOVE_COLOR(head, parent, child); \
return (old); \
} \

```

```

\
/* Inserts a node into the RB tree */ \
attr struct type * \
name##_RB_INSERT(struct name *head, struct type *elm) \
{ \
    struct type *tmp; \
    struct type *parent = NULL; \
    int comp = 0; \
    tmp = RB_ROOT(head); \
    while (tmp) { \
        parent = tmp; \
        comp = (cmp)(elm, parent); \
        if (comp < 0) \
            tmp = RB_LEFT(tmp, field); \
        else if (comp > 0) \
            tmp = RB_RIGHT(tmp, field); \
        else \
            return (tmp); \
    } \
    RB_SET(elm, parent, field); \
    if (parent != NULL) { \
        if (comp < 0) \
            RB_LEFT(parent, field) = elm; \
        else \
            RB_RIGHT(parent, field) = elm; \
        RB_AUGMENT(parent); \
    } else \
        RB_ROOT(head) = elm; \
    name##_RB_INSERT_COLOR(head, \
    elm); \
    return (NULL); \
} \
\
/* Finds the node with the same key as elm */ \
attr struct type * \
name##_RB_FIND(struct name *head, struct type *elm) \
{ \
    struct type *tmp = RB_ROOT(head); \
    int comp; \
    while (tmp) { \
        comp = cmp(elm, tmp); \
        if (comp < 0) \
            tmp = RB_LEFT(tmp, field); \
        else if (comp > 0) \
            tmp = RB_RIGHT(tmp, field); \
        else \
            return (tmp); \
    } \
} \

```

```

return (NULL);    \
}    \
    \
/* Finds the first node greater than or equal to the search key */\
attr struct type *    \
name##_RB_NFIND(struct name *head, struct type *elm) \
{    \
    struct type *tmp = RB_ROOT(head); \
    struct type *res = NULL;    \
    int comp;    \
    while (tmp) {    \
        comp = cmp(elm, tmp);    \
        if (comp < 0) {    \
            res = tmp;    \
            tmp = RB_LEFT(tmp, field); \
        }    \
        else if (comp > 0)    \
            tmp = \
RB_RIGHT(tmp, field); \
        else    \
            return (tmp); \
    }    \
    return (res);    \
}    \
    \
/* ARGSUSED */    \
attr struct type *    \
name##_RB_NEXT(struct type *elm) \
{    \
    if (RB_RIGHT(elm, field)) {    \
        elm = RB_RIGHT(elm, field); \
        while (RB_LEFT(elm, field)) \
            elm = RB_LEFT(elm, field); \
    } else {    \
        if (RB_PARENT(elm, field) &&    \
            (elm == RB_LEFT(RB_PARENT(elm, field), field))) \
            elm = RB_PARENT(elm, field); \
        else {    \
            while (RB_PARENT(elm, field) &&    \
                (elm == RB_RIGHT(RB_PARENT(elm, field), field))) \
                elm = RB_PARENT(elm, field); \
            elm = RB_PARENT(elm, field); \
        }    \
    }    \
    return (elm);    \
}    \
    \
/* ARGSUSED */    \

```

```

attr struct type * \
name##_RB_PREV(struct type *elm) \
{ \
    if (RB_LEFT(elm, field)) { \
        elm = RB_LEFT(elm, field); \
        while (RB_RIGHT(elm, field)) \
            elm = RB_RIGHT(elm, field); \
    } \
    else { \
        if (RB_PARENT(elm, field) && \
            (elm == RB_RIGHT(RB_PARENT(elm, field), field))) \
            elm = RB_PARENT(elm, field); \
        else { \
            while (RB_PARENT(elm, field) && \
                (elm == RB_LEFT(RB_PARENT(elm, field), field))) \
                elm = RB_PARENT(elm, field); \
            elm = RB_PARENT(elm, field); \
        } \
    } \
    return (elm); \
} \
\
attr struct type * \
name##_RB_MINMAX(struct name *head, int val) \
{ \
    struct type *tmp = RB_ROOT(head); \
    struct type *parent = NULL; \
    while (tmp) { \
        parent = tmp; \
        if (val < 0) \
            tmp = RB_LEFT(tmp, field); \
        else \
            tmp = RB_RIGHT(tmp, field); \
    } \
    return (parent); \
}

#define RB_NEGINF -1
#define RB_INF 1

#define RB_INSERT(name, x, y) name##_RB_INSERT(x, y)
#define RB_REMOVE(name, x, y) name##_RB_REMOVE(x, y)
#define RB_FIND(name, x, y) name##_RB_FIND(x, y)
#define RB_NFIND(name, x, y) name##_RB_NFIND(x, y)
#define RB_NEXT(name, x, y) name##_RB_NEXT(y)
#define RB_PREV(name, x, y) name##_RB_PREV(y)
#define RB_MIN(name, x) name##_RB_MINMAX(x, RB_NEGINF)

```

```

#define RB_MAX(name, x) name##_RB_MINMAX(x, RB_INF)

#define RB_FOREACH(x, name, head) \
    for ((x) = RB_MIN(name, head); \
        (x) != NULL; \
        (x) = name##_RB_NEXT(x))

#define RB_FOREACH_FROM(x, name, y) \
    for ((x) = (y); \
        ((x) != NULL) && ((y) = name##_RB_NEXT(x), (x) != NULL); \
        (x) = (y))

#define RB_FOREACH_SAFE(x, name, head, y) \
    for ((x) = RB_MIN(name, head); \
        ((x) != NULL) && ((y) = name##_RB_NEXT(x), (x) != NULL); \
        (x) = (y))

#define RB_FOREACH_REVERSE(x, name, head) \
    for ((x) = RB_MAX(name, head); \
        (x) != NULL; \
        (x) = name##_RB_PREV(x))

#define RB_FOREACH_REVERSE_FROM(x, name, y) \
    for ((x) = (y); \
        ((x) != NULL) && ((y) = name##_RB_PREV(x), (x) != NULL); \
        (x) = (y))

#define RB_FOREACH_REVERSE_SAFE(x, name, \
    head, y) \
    for ((x) = RB_MAX(name, head); \
        ((x) != NULL) && ((y) = name##_RB_PREV(x), (x) != NULL); \
        (x) = (y))

#endif /* _SYS_TREE_H_ */
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```

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Contributor: Wen Heping <wenhepingalpine@sohu.com>

Maintainer: Wen Heping <wenhepingalpine@sohu.com>

pkgname=perl-software-license

pkgver=0.104007

pkgrel=0

_pkgreal is used by apkbuild-cpan to find modules at MetaCpan

_pkgreal=Software-License

pkgdesc="packages that provide templated software licenses"

url="https://metacpan.org/release/Software-License/"

arch="noarch"

license="GPL-1.0-or-later OR Artistic-1.0-Perl"

depends="perl perl-data-section perl-text-template"

checkdepends="perl-try-tiny"

subpackages="\$pkgname-doc"

source="https://cpan.metacpan.org/authors/id/L/LE/LEONT/Software-License-\$pkgver.tar.gz"

builddir="\$srcdir/\${_pkgreal}-\$pkgver"

```
build() {  
    export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')  
    PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL \  
        INSTALLDIRS=vendor \  
        NO_PACKLIST=1 \  
        NO_PERLLOCAL=1  
    make  
}
```

```
check() {  
    export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')  
    make test  
}
```

```
package() {  
    make DESTDIR="$pkgdir" install  
}
```

sha512sums="

12d75e9583b3013d9b4a282467f1ac80ab6b7f3251926d66591d01404489b528f22adc396dfd4528a0f0ca650f0eed6d
9c959e69eace2169c6ed1cffe5277e4

```

Software-License-0.104007.tar.gz
"
# Contributor: Dhruvin Gandhi <contact@dhruvin>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=py3-license-expression
_pkgname=license_expression
pkgver=30.4.0
pkgrel=0
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
url="https://github.com/nexB/license-expression"
arch="noarch"
license="Apache-2.0"
depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/l/${_pkgname}/${_pkgname}-${pkgver}.tar.gz"
builddir="$srcdir/${_pkgname}-${pkgver}"

build() {
    gpep517 build-wheel \
        --wheel-dir .dist \
        --output-fd 3 3>&1 >&2
}

check() {
    python3 -m venv --clear --without-pip --system-site-packages .testenv
    .testenv/bin/python3 -m installer .dist/*.whl
    .testenv/bin/python3 -m pytest
}

package() {
    python3 -m installer -d "$pkgdir" \
        .dist/*.whl
}

sha512sums="
cc7cd6b5bd8ea4c99b66f074871ffd7cc78b3e8b1b0d3afd9b95efdb7147c8293db2fac977d684fc34d3d60bd79066a06
dc2bff0a38b130d9d83c63538502db1
    license_expression-30.4.0.tar.gz
"

```

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Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>

Maintainer: Kevin Daudt <kdaudt@alpinelinux.org>

pkgname=spdx-licenses

pkgver=3.27.0

pkgrel=0

pkgdesc="Various data formats for the SPDX License List"

url="https://spdx.org/"

arch="noarch"

options="!check" # no test suite

license="CC-BY-3.0"

source="license-list-data-\$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v\$pkgver.tar.gz"

builddir="\$srcdir/license-list-data-\$pkgver"

subpackages="\$pkgname-list"

_types="html json rdfa rdft rdfturtle rdfxml template text"

for type in \$_types; do

subpackages="\$subpackages \$pkgname-\$type:_subpkg"

done

package() {

mkdir -p "\$pkgdir"

}

_subpkg() {

local type=\${subpkgname/\$pkgname-/}

pkgdesc="\$pkgdesc (\$type)"

install_if="\$pkgname=\$pkgver-r\$pkgrel"

mkdir -p "\$subpkgdir"/usr/share/spdx

cp -r "\$builddir"/\$type "\$subpkgdir"/usr/share/spdx/

}


```

list() {
    pkgdesc="$pkgdesc (licence list)"
    mkdir -p "$subpkgdir"/usr/share/spdx
    local i; for i in "$builddir"/text/*.txt;
    do
        local license=${i##*/}
        echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
    done
}

sha512sums="
16d59c81e331b54b52639826f83408d98144cd4a70eacc3e8ce35dc3b13992e4794cf7515eb9db200efd390a0c0e35ae9
d4706fbe0ca6a8d236189e88870720c  license-list-data-3.27.0.tar.gz
"

# Automatically generated by apkgbuild-cpan, template 4
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Celeste <cielesti@protonmail.com>
maintainer="Celeste <cielesti@protonmail.com>"
pkgname=perl-bsd-resource
pkgver=1.2911
pkgrel=10
#_pkgreal is used by apkgbuild-cpan to find modules at MetaCpan
_pkgreal=BSD-Resource
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource/"
arch="all"
license="Artistic-2.0 OR LGPL-2.0"
depends="perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/BSD-Resource-$pkgver.tar.gz"
builddir="$srcdir/${_pkgreal}-${pkgver}"

build() {
    export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
    PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL \
        INSTALLDIRS=vendor \
        NO_PACKLIST=1 \
        NO_PERLLOCAL=1
    make
}

check() {
    export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
    make test
}

package() {

```

```

make DESTDIR="$pkgdir" install
}

sha512sums="
d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16dfa5417f663b
8065ba65f4fea16dc9262728b3b6b85
  BSD-Resource-1.2911.tar.gz
"

maintainer="Achill Gilgenast <achill@achill.org>"
pkgname=cargo-license
pkgver=0.7.0
pkgrel=1
pkgdesc="Cargo subcommand to see license of dependencies"
url="https://github.com/onur/cargo-license"
arch="all"
license="MIT"
makedepends="cargo cargo-auditable"
source="$pkgname-$pkgver.tar.gz::https://crates.io/api/v1/crates/cargo-license/$pkgver/download"

prepare() {
  default_prepare

  cargo fetch --target="$CTARGET" --locked
}

build() {
  cargo auditable build --release --frozen
}

check() {
  cargo test --frozen
}

package() {
  install -Dm755 target/release/cargo-license -t "$pkgdir"/usr/bin
}

sha512sums="
9b3f0ead35515e85ef4074ebdbdbe5b9ec8bcaec244fabe414e2ed60f90366e8b1692d8bf7ffe4c07d778e60d94bab86bc
0c8be9823232e9c360a38bc65e9c5a  cargo-license-0.7.0.tar.gz
"

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```

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vintagedreamworks@hotmail.com

<http://www.geocities.com/SiliconValley/Campus/8645/index.html>

<http://members.nbci.com/silicon39/>

<http://www.mp3.com/silicon39>

<https://analoguesque.x10host.com/>

Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>

Maintainer: Kevin Daudt <kdaudt@alpinelinux.org>

pkgname=spdx-licenses

pkgver=3.24.0

pkgrel=0

pkgdesc="Various data formats for the SPDX License List"

url="https://spdx.org/"

arch="noarch"

options="!check" # no test suite

license="CC-BY-3.0"

source="license-list-data-\$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v\$pkgver.tar.gz"

builddir="\$srcdir/license-list-data-\$pkgver"

```
subpackages="$pkgname-list"
```

```
_types="html json rdfa rdft rdfturtle rdfxml template text"
```

```
for type in $_types; do
    subpackages="$subpackages $pkgname-$type:_subpkg"
done
```

```
package() {
    mkdir -p "$pkgdir"
}
```

```
_subpkg() {
    local type=${subpkgname/$pkgname-/}
    pkgdesc="$pkgdesc ($type)"
    install_if="$pkgname=$pkgver-r$pkgrel"
    mkdir -p "$subpkgdir"/usr/share/spdx
    cp -r "$builddir"/$type "$subpkgdir"/usr/share/spdx/
}
```

```
list() {
    pkgdesc="$pkgdesc (licence list)"
    mkdir -p "$subpkgdir"/usr/share/spdx
    local i; for i in "$builddir"/text/*.txt;
    do
        local license=${i##*/}
        echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
    done
}
```

```
sha512sums="
```

```
6eb81424e1b3173dbd8e17859b2e15dfe1c2af8f4da59b7dad0729c038a4cbdba95c34c2c546285fcdbbd41562e39575e
6a6ebb9463b70121e0a12b99d1307e7  license-list-data-3.24.0.tar.gz
"
```

```
mini_sendmail - accept email on behalf of real sendmail
```

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Contributor: Patrycja Rosa <alpine@ptrcnull.me>

Maintainer: Patrycja Rosa <alpine@ptrcnull.me>

pkgname=bsd-compat-headers

pkgver=0.7.2

pkgrel=6

pkgdesc="BSD compatibility headers (cdefs, queue, tree)"

url="https://gitlab.alpinelinux.org/alpine/aports"

arch="noarch"

license="BSD-2-Clause AND BSD-3-Clause"

source="

cdefs.h

queue.h

tree.h

"

builddir="\$srcdir"

options="!check" # just headers

package() {

mkdir -p "\$pkgdir"

install -Dm644 -t "\$pkgdir"/usr/include/sys \

cdefs.h queue.h tree.h

}

sha512sums="

37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312

7006442c3f019b6447a620c0cae73178 cdefs.h

2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86

11ea33987d4faba37dde5ce6da0750 queue.h

d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2da

cef2092881eded0a2e94f6a07752ef3 tree.h

"

/* \$NetBSD: queue.h,v 1.70 2015/11/02 15:21:23 christos Exp \$ */

/*

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*

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- * SUCH DAMAGE.
- *
- * @(#)queue.h 8.5 (Berkeley) 8/20/94
- */

```
#ifndef _SYS_QUEUE_H_
#define _SYS_QUEUE_H_
```

```
/*
```

- * This file defines five types of data structures: singly-linked lists,
- * lists, simple queues, tail queues, and circular queues.
- *
- * A singly-linked list is headed by a single forward pointer. The
- * elements are singly linked for minimum space and
- pointer manipulation
- * overhead at the expense of O(n) removal for arbitrary elements. New
- * elements can be added to the list after an existing element or at the
- * head of the list. Elements being removed from the head of the list
- * should use the explicit macro for this purpose for optimum
- * efficiency. A singly-linked list may only be traversed in the forward
- * direction. Singly-linked lists are ideal for applications with large
- * datasets and few or no removals or for implementing a LIFO queue.
- *
- * A list is headed by a single forward pointer (or an array of forward
- * pointers for a hash table header). The elements are doubly linked

- * so that an arbitrary element can be removed without a need to
- * traverse the list. New elements can be added to the list before
- * or after an existing element or at the head of the list. A list
- * may only be traversed in the forward direction.
- *
- * A simple queue is headed by a pair of pointers, one the head of the
- * list and the
- other to the tail of the list. The elements are singly
- * linked to save space, so elements can only be removed from the
- * head of the list. New elements can be added to the list after
- * an existing element, at the head of the list, or at the end of the
- * list. A simple queue may only be traversed in the forward direction.
- *
- * A tail queue is headed by a pair of pointers, one to the head of the
- * list and the other to the tail of the list. The elements are doubly
- * linked so that an arbitrary element can be removed without a need to
- * traverse the list. New elements can be added to the list before or
- * after an existing element, at the head of the list, or at the end of
- * the list. A tail queue may be traversed in either direction.
- *
- * A circle queue is headed by a pair of pointers, one to the head of the
- * list and the other to the tail of the list. The elements are doubly
- * linked so that an arbitrary element can be removed without a need to
- * traverse the list. New elements
- can be added to the list before or after
- * an existing element, at the head of the list, or at the end of the list.
- * A circle queue may be traversed in either direction, but has a more
- * complex end of list detection.
- *
- * For details on the use of these macros, see the queue(3) manual page.
- */

/*

- * Include the definition of NULL only on NetBSD because sys/null.h
- * is not available elsewhere. This conditional makes the header
- * portable and it can simply be dropped verbatim into any system.
- * The caveat is that on other systems some other header
- * must provide NULL before the macros can be used.
- */

```

#ifdef __NetBSD__
#include <sys/null.h>
#endif

#ifdef QUEUEDEBUG
# if defined(_KERNEL)
#  define QUEUEDEBUG_ABORT(...) panic(__VA_ARGS__)
# else
#  include <err.h>

```

```

# define QUEUEDEBUG_ABORT(...) err(1, __VA_ARGS__)
# endif
#endif

/*
 * Singly-linked List definitions.
 */
#define SLIST_HEAD(name, type) \
struct name { \
    struct type *slh_first; /* first \
    element */ \
}

#define SLIST_HEAD_INITIALIZER(head) \
{ NULL }

#define SLIST_ENTRY(type) \
struct { \
    struct type *sle_next; /* next element */ \
}

/*
 * Singly-linked List access methods.
 */
#define SLIST_FIRST(head) ((head)->slh_first)
#define SLIST_END(head) NULL
#define SLIST_EMPTY(head) ((head)->slh_first == NULL)
#define SLIST_NEXT(elm, field) ((elm)->field.sle_next)

#define SLIST_FOREACH(var, head, field) \
for((var) = (head)->slh_first; \
    (var) != SLIST_END(head); \
    (var) = (var)->field.sle_next)

#define SLIST_FOREACH_SAFE(var, head, field, tvar) \
for ((var) = SLIST_FIRST((head)); \
    (var) != SLIST_END(head) && \
    ((tvar) = SLIST_NEXT((var), field), 1); \
    (var) = (tvar))

/*
 * Singly-linked List functions.
 */
#define SLIST_INIT(head) do { \
    (head)->slh_first = SLIST_END(head); \
} while (/*CONSTCOND*/0)

#define SLIST_INSERT_AFTER(slistelm, elm, field) do { \

```



```

(elm)->field.sle_next = (slistelm)->field.sle_next; \
(slistelm)->field.sle_next
= (elm); \
} while (/*CONSTCOND*/0)

#define SLIST_INSERT_HEAD(head, elm, field) do { \
(elm)->field.sle_next = (head)->slh_first; \
(head)->slh_first = (elm); \
} while (/*CONSTCOND*/0)

#define SLIST_REMOVE_AFTER(slistelm, field) do { \
(slistelm)->field.sle_next = \
    SLIST_NEXT(SLIST_NEXT((slistelm), field), field); \
} while (/*CONSTCOND*/0)

#define SLIST_REMOVE_HEAD(head, field) do { \
(head)->slh_first = (head)->slh_first->field.sle_next; \
} while (/*CONSTCOND*/0)

#define SLIST_REMOVE(head, elm, type, field) do { \
if ((head)->slh_first == (elm)) { \
    SLIST_REMOVE_HEAD((head), field); \
} \
else { \
    struct type *curelm = (head)->slh_first; \
    while(curelm->field.sle_next != (elm)) \
        curelm = curelm->field.sle_next; \
    curelm->field.sle_next = \
        curelm->field.sle_next->field.sle_next; \
} \
} while (/*CONSTCOND*/0)

/*
 * List definitions.
 */
#define LIST_HEAD(name, type) \
struct name { \
    struct type *lh_first; /* first element */ \
}

#define LIST_HEAD_INITIALIZER(head) \
{ NULL }

#define LIST_ENTRY(type) \
struct { \
    struct type *le_next; /* next element */ \
    struct type **le_prev; /* address of previous next element */ \
}

```

```

}

/*
 * List access methods.
 */

#define LIST_FIRST(head) ((head)->lh_first)
#define LIST_END(head) NULL
#define LIST_EMPTY(head) ((head)->lh_first == LIST_END(head))
#define LIST_NEXT(elm, field) ((elm)->field.le_next)

#define LIST_FOREACH(var, head, field) \
    for ((var) = ((head)->lh_first); \
         (var) != LIST_END(head); \
         (var) = ((var)->field.le_next))

#define LIST_FOREACH_SAFE(var, head, field, tvar) \
    for ((var) = LIST_FIRST((head)); \
         (var) != LIST_END(head) && \
         ((tvar) = LIST_NEXT((var), field), 1); \
         (var) = (tvar))

#define LIST_MOVE(head1, head2) do { \
    LIST_INIT((head2)); \
    if (!LIST_EMPTY((head1))) \
    { \
        (head2)->lh_first = (head1)->lh_first; \
        LIST_INIT((head1)); \
    } \
} while (/*CONSTCOND*/0)

/*
 * List functions.
 */

#if defined(QUEUEDEBUG)
#define QUEUEDEBUG_LIST_INSERT_HEAD(head, elm, field) \
    if ((head)->lh_first && \
        (head)->lh_first->field.le_prev != &(head)->lh_first) \
        QUEUEDEBUG_ABORT("LIST_INSERT_HEAD %p %s:%d", (head), \
            __FILE__, __LINE__);
#define QUEUEDEBUG_LIST_OP(elm, field) \
    if ((elm)->field.le_next && \
        (elm)->field.le_next->field.le_prev != \
        &(elm)->field.le_next) \
        QUEUEDEBUG_ABORT("LIST_* forw %p %s:%d", (elm), \
            __FILE__, __LINE__); \
    if (*(elm)->field.le_prev != (elm)) \
        QUEUEDEBUG_ABORT("LIST_* back %p %s:%d", (elm), \
            __FILE__, __LINE__);
#endif

```

```

#define QUEUEDEBUG_LIST_POSTREMOVE(elm, field) \
    (elm)->field.le_next = (void *)1L; \
    (elm)->field.le_prev = (void *)1L;
#else
#define QUEUEDEBUG_LIST_INSERT_HEAD(head, elm, field)
#define QUEUEDEBUG_LIST_OP(elm,
    field)
#define QUEUEDEBUG_LIST_POSTREMOVE(elm, field)
#endif

#define LIST_INIT(head) do { \
    (head)->lh_first = LIST_END(head); \
} while (/*CONSTCOND*/0)

#define LIST_INSERT_AFTER(listelm, elm, field) do { \
    QUEUEDEBUG_LIST_OP((listelm), field) \
    if (((elm)->field.le_next = (listelm)->field.le_next) != \
        LIST_END(head)) \
        (listelm)->field.le_next->field.le_prev = \
            &(elm)->field.le_next; \
    (listelm)->field.le_next = (elm); \
    (elm)->field.le_prev = &(listelm)->field.le_next; \
} while (/*CONSTCOND*/0)

#define LIST_INSERT_BEFORE(listelm, elm, field) do { \
    QUEUEDEBUG_LIST_OP((listelm), field) \
    (elm)->field.le_prev = (listelm)->field.le_prev; \
    (elm)->field.le_next = (listelm); \
    *(listelm)->field.le_prev = (elm); \
    (listelm)->field.le_prev = &(elm)->field.le_next; \
} while (/*CONSTCOND*/0)

#define LIST_INSERT_HEAD(head, elm, field) do { \
    QUEUEDEBUG_LIST_INSERT_HEAD((head), (elm), field) \
    if (((elm)->field.le_next \
        = (head)->lh_first) != LIST_END(head)) \
        (head)->lh_first->field.le_prev = &(elm)->field.le_next; \
    (head)->lh_first = (elm); \
    (elm)->field.le_prev = &(head)->lh_first; \
} while (/*CONSTCOND*/0)

#define LIST_REMOVE(elm, field) do { \
    QUEUEDEBUG_LIST_OP((elm), field) \
    if ((elm)->field.le_next != NULL) \
        (elm)->field.le_next->field.le_prev = \
            (elm)->field.le_prev; \
    *(elm)->field.le_prev = (elm)->field.le_next; \
    QUEUEDEBUG_LIST_POSTREMOVE((elm), field) \
} while (/*CONSTCOND*/0)

```

```

} while (/*CONSTCOND*/0)

#define LIST_REPLACE(elm, elm2, field) do { \
    if (((elm2)->field.le_next = (elm)->field.le_next) != NULL) \
        (elm2)->field.le_next->field.le_prev = \
            &(elm2)->field.le_next; \
        (elm2)->field.le_prev = (elm)->field.le_prev; \
        *(elm2)->field.le_prev = (elm2); \
        QUEUEDEBUG_LIST_POSTREMOVE((elm), field) \
    } while (/*CONSTCOND*/0)

/*
 * Simple queue definitions.
 */
#define SIMPLEQ_HEAD(name, type) \
struct name { \
    struct \
        type *sqh_first; /* first element */ \
    struct type **sqh_last; /* addr of last next element */ \
}

#define SIMPLEQ_HEAD_INITIALIZER(head) \
    { NULL, &(head).sqh_first }

#define SIMPLEQ_ENTRY(type) \
struct { \
    struct type *sqe_next; /* next element */ \
}

/*
 * Simple queue access methods.
 */
#define SIMPLEQ_FIRST(head) ((head)->sqh_first)
#define SIMPLEQ_END(head) NULL
#define SIMPLEQ_EMPTY(head) ((head)->sqh_first == SIMPLEQ_END(head))
#define SIMPLEQ_NEXT(elm, field) ((elm)->field.sqe_next)

#define SIMPLEQ_FOREACH(var, head, field) \
    for ((var) = ((head)->sqh_first); \
        (var) != SIMPLEQ_END(head); \
        (var) = ((var)->field.sqe_next))

#define SIMPLEQ_FOREACH_SAFE(var, head, field, next) \
    for ((var) = ((head)->sqh_first); \
        (var) != SIMPLEQ_END(head) && \
        ((next = ((var)->field.sqe_next)), 1); \
        (var) = (next))

```

```

/*
 * Simple queue functions.
 */
#define SIMPLEQ_INIT(head) do { \
    (head)->sqh_first = NULL; \
    (head)->sqh_last \
    = &(head)->sqh_first; \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_INSERT_HEAD(head, elm, field) do { \
    if (((elm)->field.sqe_next = (head)->sqh_first) == NULL) \
        (head)->sqh_last = &(elm)->field.sqe_next; \
    (head)->sqh_first = (elm); \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_INSERT_TAIL(head, elm, field) do { \
    (elm)->field.sqe_next = NULL; \
    *(head)->sqh_last = (elm); \
    (head)->sqh_last = &(elm)->field.sqe_next; \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_INSERT_AFTER(head, listelm, elm, field) do { \
    if (((elm)->field.sqe_next = (listelm)->field.sqe_next) == NULL) \
        (head)->sqh_last = &(elm)->field.sqe_next; \
    (listelm)->field.sqe_next = (elm); \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_REMOVE_HEAD(head, field) do { \
    if (((head)->sqh_first = (head)->sqh_first->field.sqe_next) == NULL) \
        (head)->sqh_last = &(head)->sqh_first; \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_REMOVE_AFTER(head, elm, field) do { \
    if \
        (((elm)->field.sqe_next = (elm)->field.sqe_next->field.sqe_next) \
         == NULL) \
        (head)->sqh_last = &(elm)->field.sqe_next; \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_REMOVE(head, elm, type, field) do { \
    if ((head)->sqh_first == (elm)) { \
        SIMPLEQ_REMOVE_HEAD((head), field); \
    } else { \
        struct type *curelm = (head)->sqh_first; \
        while (curelm->field.sqe_next != (elm)) \
            curelm = curelm->field.sqe_next; \
        if ((curelm->field.sqe_next = \
            curelm->field.sqe_next->field.sqe_next) == NULL) \

```

```

        (head)->sqh_last = &(curelm)->field.sqe_next; \
    } \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_CONCAT(head1, head2) do { \
    if (!SIMPLEQ_EMPTY((head2))) { \
        *(head1)->sqh_last = (head2)->sqh_first; \
        (head1)->sqh_last = (head2)->sqh_last; \
        SIMPLEQ_INIT((head2)); \
    } \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_LAST(head, type, field) \
    (SIMPLEQ_EMPTY((head)) ? \
    NULL : \
    ((struct type \
    *) (void *) \
    ((char *)((head)->sqh_last) - offsetof(struct type, field))))

/*
 * Tail queue definitions.
 */
#define _TAILQ_HEAD(name, type, qual) \
struct name { \
    qual type *tqh_first; /* first element */ \
    qual type *qual *tqh_last; /* addr of last next element */ \
}
#define TAILQ_HEAD(name, type) _TAILQ_HEAD(name, struct type,)

#define TAILQ_HEAD_INITIALIZER(head) \
    { TAILQ_END(head), &(head).tqh_first }

#define _TAILQ_ENTRY(type, qual) \
struct { \
    qual type *tqe_next; /* next element */ \
    qual type *qual *tqe_prev; /* address of previous next element */ \
}
#define TAILQ_ENTRY(type) _TAILQ_ENTRY(struct type,)

/*
 * Tail queue access methods.
 */
#define TAILQ_FIRST(head) ((head)->tqh_first)
#define TAILQ_END(head) (NULL)
#define TAILQ_NEXT(elm, field) ((elm)->field.tqe_next)
#define TAILQ_LAST(head, headname) \
    (((struct headname *) (void *)) ((head)->tqh_last))->tqh_last)
#define TAILQ_PREV(elm, headname, field) \

```

```

(*(((struct headname
*)(void *)((elm)->field.tqe_prev))->tqh_last))
#define TAILQ_EMPTY(head) (TAILQ_FIRST(head) == TAILQ_END(head))

#define TAILQ_FOREACH(var, head, field) \
for ((var) = ((head)->tqh_first); \
     (var) != TAILQ_END(head); \
     (var) = ((var)->field.tqe_next))

#define TAILQ_FOREACH_SAFE(var, head, field, next) \
for ((var) = ((head)->tqh_first); \
     (var) != TAILQ_END(head) && \
     ((next) = TAILQ_NEXT(var, field), 1); (var) = (next))

#define TAILQ_FOREACH_REVERSE(var, head, headname, field) \
for ((var) = TAILQ_LAST((head), headname); \
     (var) != TAILQ_END(head); \
     (var) = TAILQ_PREV((var), headname, field))

#define TAILQ_FOREACH_REVERSE_SAFE(var, head, headname, field, prev) \
for ((var) = TAILQ_LAST((head), headname); \
     (var) != TAILQ_END(head) && \
     ((prev) = TAILQ_PREV((var), headname, field), 1); (var) = (prev))

/*
 * Tail queue functions.
 */
#if defined(QEUEDEBBUG)
#define QEUEDEBBUG_TAILQ_INSERT_HEAD(head, \
elm, field) \
if ((head)->tqh_first && \
     (head)->tqh_first->field.tqe_prev != &(head)->tqh_first) \
QEUEDEBBUG_ABORT("TAILQ_INSERT_HEAD %p %s:%d", (head), \
    __FILE__, __LINE__);
#define QEUEDEBBUG_TAILQ_INSERT_TAIL(head, elm, field) \
if (*(head)->tqh_last != NULL) \
QEUEDEBBUG_ABORT("TAILQ_INSERT_TAIL %p %s:%d", (head), \
    __FILE__, __LINE__);
#define QEUEDEBBUG_TAILQ_OP(elm, field) \
if ((elm)->field.tqe_next && \
     (elm)->field.tqe_next->field.tqe_prev != \
     &(elm)->field.tqe_next) \
QEUEDEBBUG_ABORT("TAILQ_* forw %p %s:%d", (elm), \
    __FILE__, __LINE__); \
if (*(elm)->field.tqe_prev != (elm)) \
QEUEDEBBUG_ABORT("TAILQ_* back %p %s:%d", (elm), \
    __FILE__, __LINE__);

```

```

#define QUEUEDEBUG_TAILQ_PREREMOVE(head, elm, field) \
if ((elm)->field.tqe_next == NULL && \
    (head)->tqh_last != &(elm)->field.tqe_next) \
    QUEUEDEBUG_ABORT("TAILQ_PREREMOVE head %p elm %p %s:%d", \
        (head), (elm), __FILE__, \
        __LINE__);
#define QUEUEDEBUG_TAILQ_POSTREMOVE(elm, field) \
    (elm)->field.tqe_next = (void *)1L; \
    (elm)->field.tqe_prev = (void *)1L;
#else
#define QUEUEDEBUG_TAILQ_INSERT_HEAD(head, elm, field)
#define QUEUEDEBUG_TAILQ_INSERT_TAIL(head, elm, field)
#define QUEUEDEBUG_TAILQ_OP(elm, field)
#define QUEUEDEBUG_TAILQ_PREREMOVE(head, elm, field)
#define QUEUEDEBUG_TAILQ_POSTREMOVE(elm, field)
#endif

#define TAILQ_INIT(head) do { \
    (head)->tqh_first = TAILQ_END(head); \
    (head)->tqh_last = &(head)->tqh_first; \
} while (/*CONSTCOND*/0)

#define TAILQ_INSERT_HEAD(head, elm, field) do { \
    QUEUEDEBUG_TAILQ_INSERT_HEAD((head), (elm), field) \
    if (((elm)->field.tqe_next = (head)->tqh_first) != TAILQ_END(head)) \
        (head)->tqh_first->field.tqe_prev = \
            &(elm)->field.tqe_next; \
    else \
        (head)->tqh_last = &(elm)->field.tqe_next; \
    (head)->tqh_first = (elm); \
    (elm)->field.tqe_prev = &(head)->tqh_first; \
} while (/*CONSTCOND*/0)

#define TAILQ_INSERT_TAIL(head, \
    elm, field) do { \
    QUEUEDEBUG_TAILQ_INSERT_TAIL((head), (elm), field) \
    (elm)->field.tqe_next = TAILQ_END(head); \
    (elm)->field.tqe_prev = (head)->tqh_last; \
    *(head)->tqh_last = (elm); \
    (head)->tqh_last = &(elm)->field.tqe_next; \
} while (/*CONSTCOND*/0)

#define TAILQ_INSERT_AFTER(head, listelm, elm, field) do { \
    QUEUEDEBUG_TAILQ_OP((listelm), field) \
    if (((elm)->field.tqe_next = (listelm)->field.tqe_next) != \
        TAILQ_END(head)) \
        (elm)->field.tqe_next->field.tqe_prev = \
            &(elm)->field.tqe_next; \
} while (/*CONSTCOND*/0)

```



```

else    \
    (head)->tqh_last = &(elm)->field.tqe_next; \
    (listelm)->field.tqe_next = (elm);    \
    (elm)->field.tqe_prev = &(listelm)->field.tqe_next; \
} while (/*CONSTCOND*/0)

#define TAILQ_INSERT_BEFORE(listelm, elm, field) do { \
    QUEUEDEBUG_TAILQ_OP((listelm), field) \
    (elm)->field.tqe_prev = (listelm)->field.tqe_prev; \
    (elm)->field.tqe_next = (listelm); \
    *(listelm)->field.tqe_prev = (elm); \
    (listelm)->field.tqe_prev \
    = &(elm)->field.tqe_next; \
} while (/*CONSTCOND*/0)

#define TAILQ_REMOVE(head, elm, field) do { \
    QUEUEDEBUG_TAILQ_PREREMOVE((head), (elm), field) \
    QUEUEDEBUG_TAILQ_OP((elm), field) \
    if (((elm)->field.tqe_next) != TAILQ_END(head)) \
        (elm)->field.tqe_next->field.tqe_prev = \
            (elm)->field.tqe_prev; \
    else \
        (head)->tqh_last = (elm)->field.tqe_prev; \
    *(elm)->field.tqe_prev = (elm)->field.tqe_next; \
    QUEUEDEBUG_TAILQ_POSTREMOVE((elm), field); \
} while (/*CONSTCOND*/0)

#define TAILQ_REPLACE(head, elm, elm2, field) do { \
    if (((elm2)->field.tqe_next = (elm)->field.tqe_next) != \
        TAILQ_END(head)) \
        (elm2)->field.tqe_next->field.tqe_prev = \
            &(elm2)->field.tqe_next; \
    else \
        (head)->tqh_last = &(elm2)->field.tqe_next; \
    (elm2)->field.tqe_prev = (elm)->field.tqe_prev; \
    *(elm2)->field.tqe_prev = (elm2); \
    QUEUEDEBUG_TAILQ_POSTREMOVE((elm), \
    field); \
} while (/*CONSTCOND*/0)

#define TAILQ_CONCAT(head1, head2, field) do { \
    if (!TAILQ_EMPTY(head2)) { \
        *(head1)->tqh_last = (head2)->tqh_first; \
        (head2)->tqh_first->field.tqe_prev = (head1)->tqh_last; \
        (head1)->tqh_last = (head2)->tqh_last; \
        TAILQ_INIT((head2)); \
    } \
} while (/*CONSTCOND*/0)

```

```

/*
 * Singly-linked Tail queue declarations.
 */
#define STAILQ_HEAD(name, type) \
struct name { \
    struct type *stqh_first; /* first element */ \
    struct type **stqh_last; /* addr of last next element */ \
}

#define STAILQ_HEAD_INITIALIZER(head) \
{ NULL, &(head).stqh_first }

#define STAILQ_ENTRY(type) \
struct { \
    struct type *stqe_next; /* next element */ \
}

/*
 * Singly-linked Tail queue access methods.
 */
#define STAILQ_FIRST(head) ((head)->stqh_first)
#define STAILQ_END(head) NULL
#define STAILQ_NEXT(elm, field) ((elm)->field.stqe_next)
#define STAILQ_EMPTY(head) (STAILQ_FIRST(head) \
    == STAILQ_END(head))

/*
 * Singly-linked Tail queue functions.
 */
#define STAILQ_INIT(head) do { \
    (head)->stqh_first = NULL; \
    (head)->stqh_last = &(head)->stqh_first; \
} while (/*CONSTCOND*/0)

#define STAILQ_INSERT_HEAD(head, elm, field) do { \
    if (((elm)->field.stqe_next = (head)->stqh_first) == NULL) \
        (head)->stqh_last = &(elm)->field.stqe_next; \
    (head)->stqh_first = (elm); \
} while (/*CONSTCOND*/0)

#define STAILQ_INSERT_TAIL(head, elm, field) do { \
    (elm)->field.stqe_next = NULL; \
    *(head)->stqh_last = (elm); \
    (head)->stqh_last = &(elm)->field.stqe_next; \
} while (/*CONSTCOND*/0)

#define STAILQ_INSERT_AFTER(head, listelm, elm, field) do { \

```

```

if (((elm)->field.stqe_next = (listelm)->field.stqe_next) == NULL)\
(head)->stqh_last = &(elm)->field.stqe_next; \
(listelm)->field.stqe_next = (elm); \
} while (/*CONSTCOND*/0)

```

```

#define STAILQ_REMOVE_HEAD(head, field) do { \
if (((head)->stqh_first = (head)->stqh_first->field.stqe_next) \
== NULL) \
(head)->stqh_last = &(head)->stqh_first; \
} while (/*CONSTCOND*/0)

```

```

#define STAILQ_REMOVE(head, elm, type, field) do { \
if ((head)->stqh_first == (elm)) { \
STAILQ_REMOVE_HEAD((head), field); \
} else { \
struct type *curelm = (head)->stqh_first; \
while (curelm->field.stqe_next != (elm)) \
curelm = curelm->field.stqe_next; \
if ((curelm->field.stqe_next = \
curelm->field.stqe_next->field.stqe_next) == NULL) \
(head)->stqh_last = &(curelm)->field.stqe_next; \
} \
} while (/*CONSTCOND*/0)

```

```

#define STAILQ_FOREACH(var, head, field) \
for ((var) = ((head)->stqh_first); \
(var); \
(var) = ((var)->field.stqe_next))

```

```

#define STAILQ_FOREACH_SAFE(var, head, field, tvar) \
for ((var) = STAILQ_FIRST((head)); \
(var) && ((tvar) = STAILQ_NEXT((var), field), 1); \
(var) = (tvar))

```

```

#define STAILQ_CONCAT(head1, head2) do { \
if (!STAILQ_EMPTY((head2))) { \
*(head1)->stqh_last \
= (head2)->stqh_first; \
(head1)->stqh_last = (head2)->stqh_last; \
STAILQ_INIT((head2)); \
} \
} while (/*CONSTCOND*/0)

```

```

#define STAILQ_LAST(head, type, field) \
(STAILQ_EMPTY((head)) ? \
NULL : \
((struct type *) (void *) \
((char *)((head)->stqh_last) - offsetof(struct type, field))))

```

```

#ifndef _KERNEL
/*
 * Circular queue definitions. Do not use. We still keep the macros
 * for compatibility but because of pointer aliasing issues their use
 * is discouraged!
 */

/*
 * __launder_type(): We use this ugly hack to work around the the compiler
 * noticing that two types may not alias each other and elide tests in code.
 * We hit this in the CIRCLEQ macros when comparing 'struct name *' and
 * 'struct type *' (see CIRCLEQ_HEAD()). Modern compilers (such as GCC
 * 4.8) declare these comparisons as always false, causing the code to
 * not run as designed.
 *
 * This hack is only to be used for comparisons and thus can be fully const.
 * Do not use for assignment.
 *
 * If we ever choose to change the ABI of the CIRCLEQ macros, we could fix
 * this by changing the head/tail sentinel values, but see the note above
 * this one.
 */
static __inline const void * __launder_type(const void *);
static __inline const void *
__launder_type(const void *__x)
{
    __asm __volatile("" : "+r" (__x));
    return __x;
}

#if defined(QUEUEDEBUG)
#define QUEUEDEBUG_CIRCLEQ_HEAD(head, field) \
    if ((head)->cqh_first != CIRCLEQ_ENDC(head) && \
        (head)->cqh_first->field.cqe_prev != CIRCLEQ_ENDC(head)) \
        QUEUEDEBUG_ABORT("CIRCLEQ head forw %p %s:%d", (head), \
            __FILE__, __LINE__); \
    if ((head)->cqh_last != CIRCLEQ_ENDC(head) && \
        (head)->cqh_last->field.cqe_next != CIRCLEQ_ENDC(head)) \
        QUEUEDEBUG_ABORT("CIRCLEQ head back %p %s:%d", (head), \
            __FILE__, __LINE__);
#define QUEUEDEBUG_CIRCLEQ_ELM(head, elm, field) \
    if ((elm)->field.cqe_next == CIRCLEQ_ENDC(head)) { \
        if ((head)->cqh_last != (elm)) \
            QUEUEDEBUG_ABORT("CIRCLEQ \
elm last %p %s:%d", \
                (elm), __FILE__, __LINE__); \
    }

```

```

} else {    \
if ((elm)->field.cqe_next->field.cqe_prev != (elm)) \
    QUEUEDEBUG_ABORT("CIRCLEQ elm forw %p %s:%d", \
        (elm), __FILE__, __LINE__); \
}    \
if ((elm)->field.cqe_prev == CIRCLEQ_ENDC(head)) { \
if ((head)->cqh_first != (elm)) \
    QUEUEDEBUG_ABORT("CIRCLEQ elm first %p %s:%d", \
        (elm), __FILE__, __LINE__); \
} else {    \
if ((elm)->field.cqe_prev->field.cqe_next != (elm)) \
    QUEUEDEBUG_ABORT("CIRCLEQ elm prev %p %s:%d", \
        (elm), __FILE__, __LINE__); \
}
#define QUEUEDEBUG_CIRCLEQ_POSTREMOVE(elm, field) \
    (elm)->field.cqe_next = (void *)1L; \
    (elm)->field.cqe_prev = (void *)1L;
#else
#define QUEUEDEBUG_CIRCLEQ_HEAD(head, field)
#define QUEUEDEBUG_CIRCLEQ_ELM(head, elm, field)
#define QUEUEDEBUG_CIRCLEQ_POSTREMOVE(elm, field)
#endif

#define CIRCLEQ_HEAD(name, type) \
struct name {    \
    struct type *cqh_first; /* \
    first element */ \
    struct type *cqh_last; /* last element */ \
}

#define CIRCLEQ_HEAD_INITIALIZER(head) \
    { CIRCLEQ_END(&head), CIRCLEQ_END(&head) }

#define CIRCLEQ_ENTRY(type) \
struct {    \
    struct type *cqe_next; /* next element */ \
    struct type *cqe_prev; /* previous element */ \
}

/*
 * Circular queue functions.
 */
#define CIRCLEQ_INIT(head) do {    \
    (head)->cqh_first = CIRCLEQ_END(head); \
    (head)->cqh_last = CIRCLEQ_END(head); \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_INSERT_AFTER(head, listelm, elm, field) do { \

```

```

QUEUEDEBUG_CIRCLEQ_HEAD((head), field) \
QUEUEDEBUG_CIRCLEQ_ELM((head), (listelm), field) \
(elm)->field.cqe_next = (listelm)->field.cqe_next; \
(elm)->field.cqe_prev = (listelm); \
if ((listelm)->field.cqe_next == CIRCLEQ_ENDC(head)) \
    (head)->cqh_last = (elm); \
else \
    (listelm)->field.cqe_next->field.cqe_prev = (elm); \
(listelm)->field.cqe_next = (elm); \
} while (/*CONSTCOND*/0)

```

```

#define CIRCLEQ_INSERT_BEFORE(head,
listelm, elm, field) do { \
    QUEUEDEBUG_CIRCLEQ_HEAD((head), field) \
    QUEUEDEBUG_CIRCLEQ_ELM((head), (listelm), field) \
    (elm)->field.cqe_next = (listelm); \
    (elm)->field.cqe_prev = (listelm)->field.cqe_prev; \
    if ((listelm)->field.cqe_prev == CIRCLEQ_ENDC(head)) \
        (head)->cqh_first = (elm); \
    else \
        (listelm)->field.cqe_prev->field.cqe_next = (elm); \
    (listelm)->field.cqe_prev = (elm); \
} while (/*CONSTCOND*/0)

```

```

#define CIRCLEQ_INSERT_HEAD(head, elm, field) do { \
    QUEUEDEBUG_CIRCLEQ_HEAD((head), field) \
    (elm)->field.cqe_next = (head)->cqh_first; \
    (elm)->field.cqe_prev = CIRCLEQ_END(head); \
    if ((head)->cqh_last == CIRCLEQ_ENDC(head)) \
        (head)->cqh_last = (elm); \
    else \
        (head)->cqh_first->field.cqe_prev = (elm); \
    (head)->cqh_first = (elm); \
} while (/*CONSTCOND*/0)

```

```

#define CIRCLEQ_INSERT_TAIL(head, elm, field) do { \
    QUEUEDEBUG_CIRCLEQ_HEAD((head), field) \
    (elm)->field.cqe_next
= CIRCLEQ_END(head); \
    (elm)->field.cqe_prev = (head)->cqh_last; \
    if ((head)->cqh_first == CIRCLEQ_ENDC(head)) \
        (head)->cqh_first = (elm); \
    else \
        (head)->cqh_last->field.cqe_next = (elm); \
    (head)->cqh_last = (elm); \
} while (/*CONSTCOND*/0)

```

```

#define CIRCLEQ_REMOVE(head, elm, field) do { \

```

```

QUEUEDEBUG_CIRCLEQ_HEAD((head), field) \
QUEUEDEBUG_CIRCLEQ_ELM((head), (elm), field) \
if ((elm)->field.cqe_next == CIRCLEQ_ENDC(head)) \
    (head)->cqh_last = (elm)->field.cqe_prev; \
else \
    (elm)->field.cqe_next->field.cqe_prev = \
        (elm)->field.cqe_prev; \
if ((elm)->field.cqe_prev == CIRCLEQ_ENDC(head)) \
    (head)->cqh_first = (elm)->field.cqe_next; \
else \
    (elm)->field.cqe_prev->field.cqe_next = \
        (elm)->field.cqe_next; \
QUEUEDEBUG_CIRCLEQ_POSTREMOVE((elm), field) \
} while (/*CONSTCOND*/0)

```

```

#define CIRCLEQ_FOREACH(var, head, field) \
for ((var) = ((head)->cqh_first); \
    (var) != CIRCLEQ_ENDC(head); \
    (var) \
    = ((var)->field.cqe_next))

```

```

#define CIRCLEQ_FOREACH_REVERSE(var, head, field) \
for ((var) = ((head)->cqh_last); \
    (var) != CIRCLEQ_ENDC(head); \
    (var) = ((var)->field.cqe_prev))

```

```

/*
 * Circular queue access methods.
 */
#define CIRCLEQ_FIRST(head) ((head)->cqh_first)
#define CIRCLEQ_LAST(head) ((head)->cqh_last)
/* For comparisons */
#define CIRCLEQ_ENDC(head) (__launter_type(head))
/* For assignments */
#define CIRCLEQ_END(head) ((void *)(head))
#define CIRCLEQ_NEXT(elm, field) ((elm)->field.cqe_next)
#define CIRCLEQ_PREV(elm, field) ((elm)->field.cqe_prev)
#define CIRCLEQ_EMPTY(head) \
    (CIRCLEQ_FIRST(head) == CIRCLEQ_ENDC(head))

```

```

#define CIRCLEQ_LOOP_NEXT(head, elm, field) \
(((elm)->field.cqe_next == CIRCLEQ_ENDC(head)) \
 ? ((head)->cqh_first) \
 : (elm->field.cqe_next))
#define CIRCLEQ_LOOP_PREV(head, elm, field) \
(((elm)->field.cqe_prev == CIRCLEQ_ENDC(head)) \
 ? ((head)->cqh_last) \
 :

```

```

(elm->field.cqe_prev))
#endif /* !_KERNEL */

#endif /* !_SYS_QUEUE_H_ */
#ifndef _SYS_CDEFS_H_
#define _SYS_CDEFS_H_

#warning usage of non-standard #include <sys/cdefs.h> is deprecated

#undef __P
#undef __PMT

#define __P(args) args
#define __PMT(args) args

#define __CONCAT(x,y) x ## y
#define __STRING(x) #x

#ifdef __cplusplus
# define __BEGIN_DECLS extern "C" {
# define __END_DECLS }
#else
# define __BEGIN_DECLS
# define __END_DECLS
#endif

#if defined(__GNUC__) && !defined(__cplusplus)
# define __THROW __attribute__((__nothrow__))
# define __NTH(fct) __attribute__((__nothrow__)) fct
#else
# define __THROW
# define __NTH(fct) fct
#endif

#endif /* _SYS_CDEFS_H_ */
# Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
# Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>
pkgname=py3-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.2.4
pkgrel=3
pkgdesc="Extension for flake8 which checks for copyrights"
options="!check" # No testsuite
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="py3-flake8 py3-setuptools"
makedepends="py3-gp517 py3-wheel"

```



```

subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/${_pkgname}/${_pkgname}-${pkgver}.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver

replaces="py-flake8-copyright"          # Backwards compatibility
provides="py-flake8-copyright=$pkgver-r$pkgrel" # Backwards compatibility

build() {
    gpep517 build-wheel \
        --wheel-dir .dist \
        --output-fd 3 3>&1 >&2
}

package() {
    gpep517 install-wheel --destdir "$pkgdir" \
        .dist/*.whl
}

sha512sums="
a6ab47e1bb715618f075c51f398e18180404871b3b0faf1c2d30701d5203db6bc23771bf22ffb5bafcd8ee856b9b64237
b316bd503ae7dceed6ca284ccd5a74d
    flake8-copyright-0.2.4.tar.gz
"

# Maintainer: fossdd <fossdd@pwned.life>
pkgname=cargo-license
pkgver=0.6.1
pkgrel=1
pkgdesc="Cargo subcommand to see license of dependencies"
url="https://github.com/onur/cargo-license"
arch="all"
license="MIT"
makedepends="cargo cargo-auditable"
source="$pkgname-$pkgver.tar.gz::https://crates.io/api/v1/crates/cargo-license/$pkgver/download"

prepare() {
    default_prepare

    cargo fetch --target="$CTARGET" --locked
}

build() {
    cargo auditable build --release --frozen
}

check() {
    cargo test --frozen
}

```

```

package() {
    install -Dm755 target/release/cargo-license -t "$pkgdir"/usr/bin
}

sha512sums="
36215145e79965be090ae2f5ce6f5eb208465eb67a94c26bed1fe70a131c46c6dc35695e30852759b7366883fbc3caf00
272d796ac634f0a5e1d49232b6b29d5 cargo-license-0.6.1.tar.gz
"

MIT
# Contributor: Dhruvin Gandhi <contact@dhruvin>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=py3-license-expression
_pkgname=license_expression
pkgver=30.4.4
pkgrel=0
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
url="https://github.com/nexB/license-expression"
arch="noarch"
license="Apache-2.0"
depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/l/${_pkgname}/${_pkgname}-${pkgver}.tar.gz"
buildid="$srcdir/${_pkgname}-${pkgver}"

build() {
    gpep517 build-wheel \
        --wheel-dir .dist \
        --output-fd 3 3>&1 >&2
}

check() {
    python3 -m venv --clear --without-pip --system-site-packages .testenv
    .testenv/bin/python3 -m installer .dist/*.whl
    .testenv/bin/python3 -m pytest
}

package() {
    python3 -m installer -d "$pkgdir" \
        .dist/*.whl
}

sha512sums="
f46dd4cf524b3962115fe26f5545bfdd6767275b482724af51e7ca07da79244969a3bfc5d2fd5b95bc0f19d1b95a26a8f3
ab36c676e56ec302178d7166588066
    license_expression-30.4.4.tar.gz
"

```

1.91 gdbm 1.26-r1

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Version 3, 29 June 2007

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```
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```

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```

```
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```

```
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```

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1.92 python-setuptools 80.9.0

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```
python -m validate_pyproject.pre_compile --output-dir=setuputils/config/_validate_pyproject --enable-plugins
setuputils.distutils --very-verbose -t setuputils=setuputils/config/setuputils.schema.json -t
distutils=setuputils/config/distutils.schema.json
```

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`fastjsonschema`
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <https://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.

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url="http://search.cpan.org/dist/Software-License/"
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cpandepends="perl-text-template perl-data-section perl-sub-install"
cpanmakedepends=""
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/R/RJ/RJBS/_pkgreal-$pkgver.tar.gz"

_buildddir="$srcdir/_pkgreal-$pkgver"

prepare() {
    cd "$_buildddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}`
    PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
    cd "$_buildddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}`
    make && make test
}

package() {
    cd "$_buildddir"
    make
    DESTDIR="$pkgdir" install || return 1
    find "$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
}

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Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>

pkgname=py-flake8-copyright

_pkgname=flake8-copyright

pkgver=0.2.0

pkgrel=0

pkgdesc="Extension for flake8 which checks for copyrights"

url="https://github.com/savoirfairelinux/flake8-copyright"

arch="noarch"

license="MIT"

depends="flake8"

makedepends="python3-dev"

source="https://files.pythonhosted.org/packages/source/\${_pkgname:0:1}/\${_pkgname}/\${_pkgname}-\${pkgver}.tar.gz"

builddir="\$srcdir"/\$_pkgname-\$pkgver

build() {

cd "\$builddir"

python3 setup.py build || return 1

}

package() {

cd "\$builddir"

python3 setup.py install --prefix=/usr --root="\$pkgdir" || return 1

}

md5sums="c6348990c6d74933bf5d5f6a55a14bdf flake8-copyright-0.2.0.tar.gz"

sha256sums="aeef26eb4d5223c9cd5b101e68175fce6d2b353bf36da688fdde62fccfe2b73 flake8-copyright-

```
0.2.0.tar.gz"
sha512sums="bab1bfaeed3a525ac3c7da12b1f2ec338c204cc69b72d05cd39560e528faff5d586c3b1be9570f4a977a7e
2417b586e543bfba12abce256b2023c8c4993eeb90
flake8-copyright-0.2.0.tar.gz"
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mini_sendmail - accept email on behalf of real sendmail

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```
# Automatically generated by apkbuidl-cpan, template 1
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Valery Kartel <valery.kartel@gmail.com>
pkgname=perl-bud-resource
_pkgreal=Bud-Resource
pkgver=1.2909
pkgrel=1
pkgdesc="Perl extension implements the Bud process resource limit functions"
url="http://search.cpan.org/dist/Bud-Resource/"
arch="all"
license="GPL PerlArtistic"
cpandepends=""
cpanmakedepends=""
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/_pkgreal-$pkgver.tar.gz"

_builddir="$srcdir/_pkgreal-$pkgver"

prepare() {
    cd "$_builddir"
```

```

export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}`
PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
    cd "$_builddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}`
    make && make test || return 1
}

package() {
    cd "$_builddir"
    make DESTDIR="$pkgdir" install || return 1
    find "$pkgdir"
    \(-name perllocal.pod -o -name .packlist\) -delete
}

md5sums="3c6dd2fa953088aa87e263f40818d012 BSD-Resource-1.2909.tar.gz"
sha256sums="c47d460e2bd00d8d049f6ff4a0f1f61957e289e8de45af5fc79e851e2e855e06 BSD-Resource-1.2909.tar.gz"
sha512sums="5f489eaac5089e82081b7cf51d62638750e443751b49415407354da96b17771819b5e6e85529faa41ddd85743363750157943c7f7700276cce2bd40a429fa430 BSD-Resource-1.2909.tar.gz"
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"
url="http://www.levien.com/libart/"
arch="all"
license="LGPL"
depends=
makedepends=
subpackages="$pkgname-dev"
source="http://ftp.gnome.org/pub/GNOME/sources/libart_2.3/libart_2.3/libart_2.3-$pkgver.tar.bz2"

_buildddir="$srcdir"/libart_2.3-$pkgver

prepare() {
    cd "$_builddir"
    update_config_sub || return 1
}

build() {
    cd "$_builddir"
    ./configure \
        --build=$CBUILD \
        --host=$CHOST \
        --prefix=/usr \

```

```

|| return 1
make || return 1
}

package() {
cd "$_builddir"
make DESTDIR="$pkgdir" install || return 1
}

md5sums="08559ff3c67fd95d57b0c5e91a6b4302 libart_lgpl-2.3.21.tar.bz2"

```

1.94 libcrypto3 3.3.5-r0

1.94.1 Available under license :

```

# Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>
# Maintainer: Kevin Daudt <kdaudt@alpinelinux.org>
pkgname=spdx-licenses
pkgver=3.22
pkgrel=1
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/"
arch="noarch"
options="!check" # no test suite
license="CC-BY-3.0"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"

_types="html json rdfa rdft rdfturtle rdfxml template text"

for type in $_types; do
subpackages="$subpackages $pkgname-$type:_subpkg"
done

package() {
mkdir -p "$pkgdir"
}

_subpkg() {
local type=${subpkgname/$pkgname-/}
pkgdesc="$pkgdesc ($type)"
install_if="$pkgname=$pkgver-r$pkgrel"
mkdir -p "$subpkgdir"/usr/share/spdx
cp -r "$builddir"/$type "$subpkgdir"/usr/share/spdx/
}

list() {

```

```

pkgdesc="$pkgdesc (licence list)"
mkdir -p "$subpkgdir"/usr/share/spdx
local i; for i in "$builddir"/text/*.txt; do
    local
    license=${i##*/}
    echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
done
}

sha512sums="
b213fe66699770d75a4c994a01a5c08325751423516c2fb871088a47e7e7ce605736064f5ce3a63dc1d3c462271832db
7bc464ac968df1888f9823787964c786 license-list-data-3.22.tar.gz
"

# Contributor: Maxim Karasev <begs@disroot.org>
# Maintainer: mio <miyopan@e.email>
pkgname=bsd-games
pkgver=3.3
pkgrel=1
pkgdesc="traditional text mode games from BSD"
url="https://bsd-games.sourceforge.io/"
arch="all"
license="BSD-3-Clause"
install="$pkgname.post-install"
makedepends="ncurses-dev coreutils" # configure causes busybox expr error
subpackages="$pkgname-doc"
source="https://sourceforge.net/projects/bsd-games/files/bsd-games-$pkgver.tar.gz"
options="!check" # no tests

build() {
    # some GNU autoconf options are ignored, but it works
    ./configure \
        --build=$CBUILD \
        --host=$CHOST \
        --prefix=/usr \
        --sysconfdir=/etc \
        --mandir=/usr/share/man \
        --localstatedir=/var/lib # it really shouldn't be in /var
    make
}

package() {
    make DESTDIR="$pkgdir" install
    install -Dm644 LICENSE "$pkgdir"/usr/share/licenses/bsd-games/LICENSE
}

sha512sums="
aaf36d09d4fe68514a5c279063d7e77a9a9a84c447037cba974b29faa07eb80c2aab2379d0699c196b5c27ffe1b2bb2c6
8d3390143e0e62d5e3d210ccfb61294

```

```

bsd-games-3.3.tar.gz
"
# Contributor: Dhruvin Gandhi <contact@dhruvin.dev>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=py3-license-expression
_pkgname=license-expression
pkgver=30.3.0
pkgrel=1
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
url="https://github.com/nexB/license-expression"
arch="noarch"
license="Apache-2.0"
depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/l/${_pkgname}/${_pkgname}-${pkgver}.tar.gz"
builddir="$srcdir/${_pkgname}-${pkgver}"

build() {
    gpep517 build-wheel \
        --wheel-dir .dist \
        --output-fd 3 3>&1 >&2
}

check() {
    python3 -m venv --clear --without-pip --system-site-packages .testenv
    .testenv/bin/python3 -m installer .dist/*.whl
    .testenv/bin/python3 -m pytest
}

package() {
    python3 -m installer -d "$pkgdir" \
        .dist/*.whl
}

sha512sums="
3fe4ac8830085fe38d8ee713a332047941b2a7a8ff5f31810b124c5903335a8343a222926aefe000da66a49b4d6f8b934
af3cc350448b075a4ec6aa1fdb51aef
    license-expression-30.3.0.tar.gz
"
MIT License

```

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```
# Automatically generated by apkgbuild-cpan, template 4
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Celeste <cielesti@protonmail.com>
pkgname=perl-bsd-resource
pkgver=1.2911
pkgrel=9
#_pkgreal is used by apkgbuild-cpan to find modules at MetaCpan
_pkgreal=BSD-Resource
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource/"
arch="all"
license="Artistic-2.0 OR LGPL-2.0"
depends="perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/BSD-Resource-$pkgver.tar.gz"
buildid="$srcdir/$_pkgreal-$pkgver"
```

```
build() {
    export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
    PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL \
        INSTALLDIRS=vendor \
        NO_PACKLIST=1 \
        NO_PERLLOCAL=1
    make
}
```

```
check() {
    export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
    make test
}
```

```
package() {
```

```
make DESTDIR="$pkgdir" install
}
```

```
sha512sums="
d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16dfa5417f663b
8065ba65f4fea16dc9262728b3b6b85
```

```
BSD-Resource-1.2911.tar.gz
```

```
"
```

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vintagedreamworks@hotmail.com

<http://www.geocities.com/SiliconValley/Campus/8645/index.html>

<http://members.nbci.com/silicon39/>

<http://www.mp3.com/silicon39>

<https://analoguesque.x10host.com/>

Maintainer: Natanael Copa <ncopa@alpinelinux.org>

```
pkgname=libart-lgpl
```

```
pkgver=2.3.21
```

```
pkgrel=8
```

```
pkgdesc="A library for high-performance 2D graphics"
```

```
url="https://www.levien.com/libart/"
```

```
arch="all"
```

```
options="!check" # No test suite.
```

```
license="GPL-2.0-or-later"
```

```
subpackages="$pkgname-dev"
```

```
source="https://download.gnome.org/sources/libart-lgpl/2.3/libart-lgpl-$pkgver.tar.bz2"
```

```
"
```

```
builddir="$srcdir"/libart-lgpl-$pkgver
```

```
prepare() {
  update_config_sub
  default_prepare
}
```



```
build() {
./configure \
--build=$CBUILD \
--host=$CHOST \
--prefix=/usr
make
}
```

```
package() {
make DESTDIR="$pkgdir" install
}
```

```
sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020 libart_lgpl-2.3.21.tar.bz2"
mini_sendmail - accept email on behalf of real sendmail
```

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```
# Contributor: Patrycja Rosa <alpine@ptrcnull.me>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=bsd-compat-headers
pkgver=0.7.2
pkgrel=6
pkgdesc="BSD compatibility headers (cdefs, queue, tree)"
url="https://gitlab.alpinelinux.org/alpine/aports"
```

```

arch="noarch"
license="BSD-2-Clause AND BSD-3-Clause"
source="
cdefs.h
queue.h
tree.h
"
builddir="$srcdir"
options="!check" # just headers

package() {
    mkdir -p "$pkgdir"
    install -Dm644 -t "$pkgdir"/usr/include/sys \
        cdefs.h queue.h tree.h
}
sha512sums="
37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312
7006442c3f019b6447a620c0cae73178 cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750 queue.h
d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2da
cef2092881eded0a2e94f6a07752ef3 tree.h
"

```

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The Kohonen neural network code for color optimization was written by Anthony Dekker.

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The X-Spline code was written Carole Blanc (blanc@labri.u-bordeaux.fr) and Christophe Schlick (schlick@labri.u-

bordeaux.fr) starting from an initial implementation done by C. Feuille, S. Grosbois, L. Maziere and L. Minihot as a student practice (Universite Bordeaux, France). For additional information about X-splines, see:
 "X-Splines: A Spline Model Designed for the End User" by C. Blanc and C. Schlick, Proceedings of SIGGRAPH'95
<http://dept-info.labri.u-bordeaux.fr/~schlick/DOC/sig1.html>

```

/* $NetBSD: queue.h,v 1.70 2015/11/02 15:21:23 christos Exp $ */

/*
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 * SUCH DAMAGE.
 *
 * @(#)queue.h 8.5 (Berkeley) 8/20/94
 */

#ifndef _SYS_QUEUE_H_
#define _SYS_QUEUE_H_

/*
 * This file defines five types of data structures: singly-linked lists,
 * lists, simple queues, tail queues, and circular queues.
 *
 * A singly-linked list is headed by a single forward pointer. The
 * elements are singly linked for minimum space and

```

pointer manipulation

- * overhead at the expense of $O(n)$ removal for arbitrary elements. New
- * elements can be added to the list after an existing element or at the
- * head of the list. Elements being removed from the head of the list
- * should use the explicit macro for this purpose for optimum
- * efficiency. A singly-linked list may only be traversed in the forward
- * direction. Singly-linked lists are ideal for applications with large
- * datasets and few or no removals or for implementing a LIFO queue.

*

- * A list is headed by a single forward pointer (or an array of forward
- * pointers for a hash table header). The elements are doubly linked
- * so that an arbitrary element can be removed without a need to
- * traverse the list. New elements can be added to the list before
- * or after an existing element or at the head of the list. A list
- * may only be traversed in the forward direction.

*

- * A simple queue is headed by a pair of pointers, one the head of the
- * list and the

other to the tail of the list. The elements are singly

- * linked to save space, so elements can only be removed from the
- * head of the list. New elements can be added to the list after
- * an existing element, at the head of the list, or at the end of the
- * list. A simple queue may only be traversed in the forward direction.

*

- * A tail queue is headed by a pair of pointers, one to the head of the
- * list and the other to the tail of the list. The elements are doubly
- * linked so that an arbitrary element can be removed without a need to
- * traverse the list. New elements can be added to the list before or
- * after an existing element, at the head of the list, or at the end of
- * the list. A tail queue may be traversed in either direction.

*

- * A circle queue is headed by a pair of pointers, one to the head of the
- * list and the other to the tail of the list. The elements are doubly
- * linked so that an arbitrary element can be removed without a need to
- * traverse the list. New elements

can be added to the list before or after

- * an existing element, at the head of the list, or at the end of the list.
- * A circle queue may be traversed in either direction, but has a more
- * complex end of list detection.

*

- * For details on the use of these macros, see the queue(3) manual page.

*/

/*

- * Include the definition of NULL only on NetBSD because sys/null.h
- * is not available elsewhere. This conditional makes the header
- * portable and it can simply be dropped verbatim into any system.
- * The caveat is that on other systems some other header

```

* must provide NULL before the macros can be used.
*/
#ifdef __NetBSD__
#include <sys/null.h>
#endif

#if defined(QUEUEDEBUG)
# if defined(_KERNEL)
#  define QUEUEDEBUG_ABORT(...) panic(__VA_ARGS__)
# else
#  include <err.h>
#  define QUEUEDEBUG_ABORT(...) err(1, __VA_ARGS__)
# endif
#endif

/*
 * Singly-linked List definitions.
 */
#define SLIST_HEAD(name, type) \
struct name { \
    struct type *slh_first; /* first \
    element */ \
}

#define SLIST_HEAD_INITIALIZER(head) \
{ NULL }

#define SLIST_ENTRY(type) \
struct { \
    struct type *sle_next; /* next element */ \
}

/*
 * Singly-linked List access methods.
 */
#define SLIST_FIRST(head) ((head)->slh_first)
#define SLIST_END(head) NULL
#define SLIST_EMPTY(head) ((head)->slh_first == NULL)
#define SLIST_NEXT(elm, field) ((elm)->field.sle_next)

#define SLIST_FOREACH(var, head, field) \
for((var) = (head)->slh_first; \
    (var) != SLIST_END(head); \
    (var) = (var)->field.sle_next)

#define SLIST_FOREACH_SAFE(var, head, field, tvar) \
for ((var) = SLIST_FIRST((head)); \
    (var) != SLIST_END(head) && \

```

```

        ((tvar) = SLIST_NEXT((var), field), 1); \
        (var) = (tvar))

/*
 * Singly-linked List functions.
 */
#define SLIST_INIT(head) do { \
    (head)->slh_first = SLIST_END(head); \
} while (/*CONSTCOND*/0)

#define SLIST_INSERT_AFTER(slistelm, elm, field) do { \
    (elm)->field.sle_next = (slistelm)->field.sle_next; \
    (slistelm)->field.sle_next \
    = (elm); \
} while (/*CONSTCOND*/0)

#define SLIST_INSERT_HEAD(head, elm, field) do { \
    (elm)->field.sle_next = (head)->slh_first; \
    (head)->slh_first = (elm); \
} while (/*CONSTCOND*/0)

#define SLIST_REMOVE_AFTER(slistelm, field) do { \
    (slistelm)->field.sle_next = \
        SLIST_NEXT(SLIST_NEXT((slistelm), field), field); \
} while (/*CONSTCOND*/0)

#define SLIST_REMOVE_HEAD(head, field) do { \
    (head)->slh_first = (head)->slh_first->field.sle_next; \
} while (/*CONSTCOND*/0)

#define SLIST_REMOVE(head, elm, type, field) do { \
    if ((head)->slh_first == (elm)) { \
        SLIST_REMOVE_HEAD((head), field); \
    } \
    else { \
        struct type *curelm = (head)->slh_first; \
        while(curelm->field.sle_next != (elm)) \
            curelm = curelm->field.sle_next; \
        curelm->field.sle_next = \
            curelm->field.sle_next->field.sle_next; \
    } \
} while (/*CONSTCOND*/0)

/*
 * List definitions.
 */
#define LIST_HEAD(name, type) \

```

```

struct name {      \
    struct type *lh_first; /* first element */ \
}

#define LIST_HEAD_INITIALIZER(head) \
    { NULL }

#define LIST_ENTRY(type) \
struct {      \
    struct type *le_next; /* next element */ \
    struct type **le_prev; /* address of previous next element */ \
}

/*
 * List access methods.
 */
#define LIST_FIRST(head) ((head)->lh_first)
#define LIST_END(head) NULL
#define LIST_EMPTY(head) ((head)->lh_first == LIST_END(head))
#define LIST_NEXT(elm, field) ((elm)->field.le_next)

#define LIST_FOREACH(var, head, field) \
    for ((var) = ((head)->lh_first); \
         (var) != LIST_END(head); \
         (var) = ((var)->field.le_next))

#define LIST_FOREACH_SAFE(var, head, field, tvar) \
    for ((var) = LIST_FIRST((head)); \
         (var) != LIST_END(head) && \
         ((tvar) = LIST_NEXT((var), field), 1); \
         (var) = (tvar))

#define LIST_MOVE(head1, head2) do { \
    LIST_INIT((head2)); \
    if (!LIST_EMPTY((head1))) \
    { \
        (head2)->lh_first = (head1)->lh_first; \
        LIST_INIT((head1)); \
    } \
} while (/*CONSTCOND*/0)

/*
 * List functions.
 */
#ifdef QUEUEDEBBUG
#define QUEUEDEBBUG_LIST_INSERT_HEAD(head, elm, field) \
    if ((head)->lh_first && \
        (head)->lh_first->field.le_prev != &(head)->lh_first) \

```

```

    QUEUEDEBUG_ABORT("LIST_INSERT_HEAD %p %s:%d", (head), \
        __FILE__, __LINE__);
#define QUEUEDEBUG_LIST_OP(elm, field) \
    if ((elm)->field.le_next && \
        (elm)->field.le_next->field.le_prev != \
        &(elm)->field.le_next) \
        QUEUEDEBUG_ABORT("LIST_* forw %p %s:%d", (elm), \
            __FILE__, __LINE__); \
    if (*(elm)->field.le_prev != (elm)) \
        QUEUEDEBUG_ABORT("LIST_* back %p %s:%d", (elm), \
            __FILE__, __LINE__);
#define QUEUEDEBUG_LIST_POSTREMOVE(elm, field) \
    (elm)->field.le_next = (void *)1L; \
    (elm)->field.le_prev = (void *)1L;
#else
#define QUEUEDEBUG_LIST_INSERT_HEAD(head, elm, field)
#define QUEUEDEBUG_LIST_OP(elm,
    field)
#define QUEUEDEBUG_LIST_POSTREMOVE(elm, field)
#endif

#define LIST_INIT(head) do { \
    (head)->lh_first = LIST_END(head); \
} while (/*CONSTCOND*/0)

#define LIST_INSERT_AFTER(listelm, elm, field) do { \
    QUEUEDEBUG_LIST_OP((listelm), field) \
    if (((elm)->field.le_next = (listelm)->field.le_next) != \
        LIST_END(head)) \
        (listelm)->field.le_next->field.le_prev = \
            &(elm)->field.le_next; \
    (listelm)->field.le_next = (elm); \
    (elm)->field.le_prev = &(listelm)->field.le_next; \
} while (/*CONSTCOND*/0)

#define LIST_INSERT_BEFORE(listelm, elm, field) do { \
    QUEUEDEBUG_LIST_OP((listelm), field) \
    (elm)->field.le_prev = (listelm)->field.le_prev; \
    (elm)->field.le_next = (listelm); \
    *(listelm)->field.le_prev = (elm); \
    (listelm)->field.le_prev = &(elm)->field.le_next; \
} while (/*CONSTCOND*/0)

#define LIST_INSERT_HEAD(head, elm, field) do { \
    QUEUEDEBUG_LIST_INSERT_HEAD((head), (elm), field) \
    if (((elm)->field.le_next \
        = (head)->lh_first) != LIST_END(head)) \
        (head)->lh_first->field.le_prev = &(elm)->field.le_next; \
} while (/*CONSTCOND*/0)

```



```

(head)->lh_first = (elm); \
(elm)->field.le_prev = &(head)->lh_first; \
} while (/*CONSTCOND*/0)

#define LIST_REMOVE(elm, field) do { \
    QUEUEDEBUG_LIST_OP((elm), field) \
    if ((elm)->field.le_next != NULL) \
        (elm)->field.le_next->field.le_prev = \
            (elm)->field.le_prev; \
    *(elm)->field.le_prev = (elm)->field.le_next; \
    QUEUEDEBUG_LIST_POSTREMOVE((elm), field) \
} while (/*CONSTCOND*/0)

#define LIST_REPLACE(elm, elm2, field) do { \
    if (((elm2)->field.le_next = (elm)->field.le_next) != NULL) \
        (elm2)->field.le_next->field.le_prev = \
            &(elm2)->field.le_next; \
    (elm2)->field.le_prev = (elm)->field.le_prev; \
    *(elm2)->field.le_prev = (elm2); \
    QUEUEDEBUG_LIST_POSTREMOVE((elm), field) \
} while (/*CONSTCOND*/0)

/*
 * Simple queue definitions.
 */
#define SIMPLEQ_HEAD(name, type) \
struct name { \
    struct \
    type *sqh_first; /* first element */ \
    struct type **sqh_last; /* addr of last next element */ \
}

#define SIMPLEQ_HEAD_INITIALIZER(head) \
{ NULL, &(head).sqh_first }

#define SIMPLEQ_ENTRY(type) \
struct { \
    struct type *sqe_next; /* next element */ \
}

/*
 * Simple queue access methods.
 */
#define SIMPLEQ_FIRST(head) ((head)->sqh_first)
#define SIMPLEQ_END(head) NULL
#define SIMPLEQ_EMPTY(head) ((head)->sqh_first == SIMPLEQ_END(head))
#define SIMPLEQ_NEXT(elm, field) ((elm)->field.sqe_next)

```

```

#define SIMPLEQ_FOREACH(var, head, field) \
for ((var) = ((head)->sqh_first); \
     (var) != SIMPLEQ_END(head); \
     (var) = ((var)->field.sqe_next))

#define SIMPLEQ_FOREACH_SAFE(var, head, field, next) \
for ((var) = ((head)->sqh_first); \
     (var) != SIMPLEQ_END(head) && \
     ((next = ((var)->field.sqe_next)), 1); \
     (var) = (next))

/*
 * Simple queue functions.
 */
#define SIMPLEQ_INIT(head) do { \
(head)->sqh_first = NULL; \
(head)->sqh_last \
= &(head)->sqh_first; \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_INSERT_HEAD(head, elm, field) do { \
if (((elm)->field.sqe_next = (head)->sqh_first) == NULL) \
(head)->sqh_last = &(elm)->field.sqe_next; \
(head)->sqh_first = (elm); \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_INSERT_TAIL(head, elm, field) do { \
(elm)->field.sqe_next = NULL; \
*(head)->sqh_last = (elm); \
(head)->sqh_last = &(elm)->field.sqe_next; \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_INSERT_AFTER(head, listelm, elm, field) do { \
if (((elm)->field.sqe_next = (listelm)->field.sqe_next) == NULL) \
(head)->sqh_last = &(elm)->field.sqe_next; \
(listelm)->field.sqe_next = (elm); \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_REMOVE_HEAD(head, field) do { \
if (((head)->sqh_first = (head)->sqh_first->field.sqe_next) == NULL) \
(head)->sqh_last = &(head)->sqh_first; \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_REMOVE_AFTER(head, elm, field) do { \
if \
(((elm)->field.sqe_next = (elm)->field.sqe_next->field.sqe_next) \
== NULL) \
(head)->sqh_last = &(elm)->field.sqe_next; \
} while (/*CONSTCOND*/0)

```

```

} while (/*CONSTCOND*/0)

#define SIMPLEQ_REMOVE(head, elm, type, field) do { \
    if ((head)->sqh_first == (elm)) { \
        SIMPLEQ_REMOVE_HEAD((head), field); \
    } else { \
        struct type *curelm = (head)->sqh_first; \
        while (curelm->field.sqe_next != (elm)) \
            curelm = curelm->field.sqe_next; \
        if ((curelm->field.sqe_next = \
            curelm->field.sqe_next->field.sqe_next) == NULL) \
            (head)->sqh_last = &(curelm->field.sqe_next); \
    } \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_CONCAT(head1, head2) do { \
    if (!SIMPLEQ_EMPTY((head2))) { \
        *(head1)->sqh_last = (head2)->sqh_first; \
        (head1)->sqh_last = (head2)->sqh_last; \
        SIMPLEQ_INIT((head2)); \
    } \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_LAST(head, type, field) \
    (SIMPLEQ_EMPTY((head)) ? \
    NULL : \
    ((struct type \
    *) (void *) \
    ((char *)((head)->sqh_last) - offsetof(struct type, field))))

/*
 * Tail queue definitions.
 */
#define _TAILQ_HEAD(name, type, qual) \
    struct name { \
        qual type *tqh_first; /* first element */ \
        qual type *qual *tqh_last; /* addr of last next element */ \
    }
#define TAILQ_HEAD(name, type) _TAILQ_HEAD(name, struct type,)

#define TAILQ_HEAD_INITIALIZER(head) \
    { TAILQ_END(head), &(head).tqh_first }

#define _TAILQ_ENTRY(type, qual) \
    struct { \
        qual type *tqe_next; /* next element */ \
        qual type *qual *tqe_prev; /* address of previous next element */ \
    }

```

```

#define TAILQ_ENTRY(type) _TAILQ_ENTRY(struct type,)

/*
 * Tail queue access methods.
 */

#define TAILQ_FIRST(head) ((head)->tqh_first)
#define TAILQ_END(head) (NULL)
#define TAILQ_NEXT(elm, field) ((elm)->field.tqe_next)
#define TAILQ_LAST(head, headname) \
    (((struct headname *) (void *) ((head)->tqh_last))->tqh_last)
#define TAILQ_PREV(elm, headname, field) \
    (((struct headname *) (void *) ((elm)->field.tqe_prev))->tqh_last)
#define TAILQ_EMPTY(head) (TAILQ_FIRST(head) == TAILQ_END(head))

#define TAILQ_FOREACH(var, head, field) \
    for ((var) = ((head)->tqh_first); \
         (var) != TAILQ_END(head); \
         (var) = ((var)->field.tqe_next))

#define TAILQ_FOREACH_SAFE(var, head, field, next) \
    for ((var) = ((head)->tqh_first); \
         (var) != TAILQ_END(head) && \
         ((next) = TAILQ_NEXT(var, field), 1); (var) = (next))

#define TAILQ_FOREACH_REVERSE(var, head, headname, field) \
    for ((var) = TAILQ_LAST((head), headname); \
         (var) != TAILQ_END(head); \
         (var) = TAILQ_PREV((var), headname, field))

#define TAILQ_FOREACH_REVERSE_SAFE(var, head, headname, field, prev) \
    for ((var) = TAILQ_LAST((head), headname); \
         (var) != TAILQ_END(head) && \
         ((prev) = TAILQ_PREV((var), headname, field), 1); (var) = (prev))

/*
 * Tail queue functions.
 */

#if defined(QUEUEDEBUG)
#define QUEUEDEBUG_TAILQ_INSERT_HEAD(head, \
    elm, field) \
    if ((head)->tqh_first && \
        (head)->tqh_first->field.tqe_prev != &(head)->tqh_first) \
        QUEUEDEBUG_ABORT("TAILQ_INSERT_HEAD %p %s:%d", (head), \
            __FILE__, __LINE__);
#define QUEUEDEBUG_TAILQ_INSERT_TAIL(head, elm, field) \
    if (*(head)->tqh_last != NULL) \

```

```

QUEUEDEBUG_ABORT("TAILQ_INSERT_TAIL %p %s:%d", (head), \
    __FILE__, __LINE__);
#define QUEUEDEBUG_TAILQ_OP(elm, field) \
if ((elm)->field.tqe_next && \
    (elm)->field.tqe_next->field.tqe_prev != \
    &(elm)->field.tqe_next) \
    QUEUEDEBUG_ABORT("TAILQ_* forw %p %s:%d", (elm), \
        __FILE__, __LINE__); \
if (*(elm)->field.tqe_prev != (elm)) \
    QUEUEDEBUG_ABORT("TAILQ_* back %p %s:%d", (elm), \
        __FILE__, __LINE__);
#define QUEUEDEBUG_TAILQ_PREREMOVE(head, elm, field) \
if ((elm)->field.tqe_next == NULL && \
    (head)->tqh_last != &(elm)->field.tqe_next) \
    QUEUEDEBUG_ABORT("TAILQ_PREREMOVE head %p elm %p %s:%d", \
        (head), (elm), __FILE__, \
        __LINE__);
#define QUEUEDEBUG_TAILQ_POSTREMOVE(elm, field) \
(elm)->field.tqe_next = (void *)1L; \
(elm)->field.tqe_prev = (void *)1L;
#else
#define QUEUEDEBUG_TAILQ_INSERT_HEAD(head, elm, field)
#define QUEUEDEBUG_TAILQ_INSERT_TAIL(head, elm, field)
#define QUEUEDEBUG_TAILQ_OP(elm, field)
#define QUEUEDEBUG_TAILQ_PREREMOVE(head, elm, field)
#define QUEUEDEBUG_TAILQ_POSTREMOVE(elm, field)
#endif

#define TAILQ_INIT(head) do { \
    (head)->tqh_first = TAILQ_END(head); \
    (head)->tqh_last = &(head)->tqh_first; \
} while (/*CONSTCOND*/0)

#define TAILQ_INSERT_HEAD(head, elm, field) do { \
    QUEUEDEBUG_TAILQ_INSERT_HEAD((head), (elm), field) \
    if (((elm)->field.tqe_next = (head)->tqh_first) != TAILQ_END(head)) \
        (head)->tqh_first->field.tqe_prev = \
            &(elm)->field.tqe_next; \
    else \
        (head)->tqh_last = &(elm)->field.tqe_next; \
    (head)->tqh_first = (elm); \
    (elm)->field.tqe_prev = &(head)->tqh_first; \
} while (/*CONSTCOND*/0)

#define TAILQ_INSERT_TAIL(head, \
    elm, field) do { \
    QUEUEDEBUG_TAILQ_INSERT_TAIL((head), (elm), field) \
    (elm)->field.tqe_next = TAILQ_END(head); \

```

```

(elm)->field.tqe_prev = (head)->tqh_last; \
*(head)->tqh_last = (elm); \
(head)->tqh_last = &(elm)->field.tqe_next; \
} while (/*CONSTCOND*/0)

#define TAILQ_INSERT_AFTER(head, listelm, elm, field) do { \
    QUEUEDEBUG_TAILQ_OP((listelm), field) \
    if (((elm)->field.tqe_next = (listelm)->field.tqe_next) != \
        TAILQ_END(head)) \
        (elm)->field.tqe_next->field.tqe_prev = \
            &(elm)->field.tqe_next; \
    else \
        (head)->tqh_last = &(elm)->field.tqe_next; \
        (listelm)->field.tqe_next = (elm); \
        (elm)->field.tqe_prev = &(listelm)->field.tqe_next; \
    } while (/*CONSTCOND*/0)

#define TAILQ_INSERT_BEFORE(listelm, elm, field) do { \
    QUEUEDEBUG_TAILQ_OP((listelm), field) \
    (elm)->field.tqe_prev = (listelm)->field.tqe_prev; \
    (elm)->field.tqe_next = (listelm); \
    *(listelm)->field.tqe_prev = (elm); \
    (listelm)->field.tqe_prev \
    = &(elm)->field.tqe_next; \
    } while (/*CONSTCOND*/0)

#define TAILQ_REMOVE(head, elm, field) do { \
    QUEUEDEBUG_TAILQ_PREREMOVE((head), (elm), field) \
    QUEUEDEBUG_TAILQ_OP((elm), field) \
    if (((elm)->field.tqe_next != TAILQ_END(head)) \
        (elm)->field.tqe_next->field.tqe_prev = \
            (elm)->field.tqe_prev; \
    else \
        (head)->tqh_last = (elm)->field.tqe_prev; \
        *(elm)->field.tqe_prev = (elm)->field.tqe_next; \
        QUEUEDEBUG_TAILQ_POSTREMOVE((elm), field); \
    } while (/*CONSTCOND*/0)

#define TAILQ_REPLACE(head, elm, elm2, field) do { \
    if (((elm2)->field.tqe_next = (elm)->field.tqe_next) != \
        TAILQ_END(head)) \
        (elm2)->field.tqe_next->field.tqe_prev = \
            &(elm2)->field.tqe_next; \
    else \
        (head)->tqh_last = &(elm2)->field.tqe_next; \
        (elm2)->field.tqe_prev = (elm)->field.tqe_prev; \
        *(elm2)->field.tqe_prev = (elm2); \
    QUEUEDEBUG_TAILQ_POSTREMOVE((elm),

```

```

    field); \
} while (/*CONSTCOND*/0)

#define TAILQ_CONCAT(head1, head2, field) do { \
    if (!TAILQ_EMPTY(head2)) { \
        *(head1)->tqh_last = (head2)->tqh_first; \
        (head2)->tqh_first->field.tqe_prev = (head1)->tqh_last; \
        (head1)->tqh_last = (head2)->tqh_last; \
        TAILQ_INIT((head2)); \
    } \
} while (/*CONSTCOND*/0)

/*
 * Singly-linked Tail queue declarations.
 */
#define STAILQ_HEAD(name, type) \
struct name { \
    struct type *stqh_first; /* first element */ \
    struct type **stqh_last; /* addr of last next element */ \
}

#define STAILQ_HEAD_INITIALIZER(head) \
{ NULL, &(head).stqh_first }

#define STAILQ_ENTRY(type) \
struct { \
    struct type *stqe_next; /* next element */ \
}

/*
 * Singly-linked Tail queue access methods.
 */
#define STAILQ_FIRST(head) ((head)->stqh_first)
#define STAILQ_END(head) NULL
#define STAILQ_NEXT(elm, field) ((elm)->field.stqe_next)
#define STAILQ_EMPTY(head) (STAILQ_FIRST(head) \
    == STAILQ_END(head))

/*
 * Singly-linked Tail queue functions.
 */
#define STAILQ_INIT(head) do { \
    (head)->stqh_first = NULL; \
    (head)->stqh_last = &(head)->stqh_first; \
} while (/*CONSTCOND*/0)

#define STAILQ_INSERT_HEAD(head, elm, field) do { \
    if (((elm)->field.stqe_next = (head)->stqh_first) == NULL) \

```

```

(head)->stqh_last = &(elm)->field.stqe_next; \
(head)->stqh_first = (elm); \
} while (/*CONSTCOND*/0)

#define STAILQ_INSERT_TAIL(head, elm, field) do { \
    (elm)->field.stqe_next = NULL; \
    *(head)->stqh_last = (elm); \
    (head)->stqh_last = &(elm)->field.stqe_next; \
} while (/*CONSTCOND*/0)

#define STAILQ_INSERT_AFTER(head, listelm, elm, field) do { \
    if (((elm)->field.stqe_next = (listelm)->field.stqe_next) == NULL)\
        (head)->stqh_last = &(elm)->field.stqe_next; \
    (listelm)->field.stqe_next = (elm); \
} while (/*CONSTCOND*/0)

#define STAILQ_REMOVE_HEAD(head, field) do { \
    if (((head)->stqh_first = (head)->stqh_first->field.stqe_next) \
        == NULL) \
        (head)->stqh_last = &(head)->stqh_first; \
} while (/*CONSTCOND*/0)

#define STAILQ_REMOVE(head, elm, type, field) do { \
    if ((head)->stqh_first == (elm)) { \
        STAILQ_REMOVE_HEAD((head), field); \
    } else { \
        struct type *curelm = (head)->stqh_first; \
        while (curelm->field.stqe_next != (elm)) \
            curelm = curelm->field.stqe_next; \
        if ((curelm->field.stqe_next = \
            curelm->field.stqe_next->field.stqe_next) == NULL) \
            (head)->stqh_last = &(curelm)->field.stqe_next; \
    } \
} while (/*CONSTCOND*/0)

#define STAILQ_FOREACH(var, head, field) \
    for ((var) = ((head)->stqh_first); \
        (var); \
        (var) = ((var)->field.stqe_next))

#define STAILQ_FOREACH_SAFE(var, head, field, tvar) \
    for ((var) = STAILQ_FIRST((head)); \
        (var) && ((tvar) = STAILQ_NEXT((var), field), 1); \
        (var) = (tvar))

#define STAILQ_CONCAT(head1, head2) do { \
    if (!STAILQ_EMPTY((head2))) { \
        *(head1)->stqh_last

```



```

= (head2)->stqh_first; \
(head1)->stqh_last = (head2)->stqh_last; \
STAILQ_INIT((head2)); \
} \
} while (/*CONSTCOND*/0)

#define STAILQ_LAST(head, type, field) \
(STAILQ_EMPTY((head)) ? \
NULL : \
((struct type *) (void *) \
((char *) ((head)->stqh_last) - offsetof(struct type, field))))

#ifndef _KERNEL
/*
 * Circular queue definitions. Do not use. We still keep the macros
 * for compatibility but because of pointer aliasing issues their use
 * is discouraged!
 */

/*
 * __launder_type(): We use this ugly hack to work around the the compiler
 * noticing that two types may not alias each other and elide tests in code.
 * We hit this in the CIRCLEQ macros when comparing 'struct name *' and
 * 'struct type *' (see CIRCLEQ_HEAD()). Modern compilers (such as GCC
 * 4.8) declare these comparisons as always false, causing the code to
 * not run as designed.
 *
 * This hack is only to be used for comparisons and thus can be fully const.
 * Do not use for assignment.
 *
 * If we ever choose to change the ABI of the CIRCLEQ macros, we could fix
 * this by changing the head/tail sentinel values, but see the note above
 * this one.
 */
static __inline const void * __launder_type(const void *);
static __inline const void *
__launder_type(const void *__x)
{
    __asm __volatile("" : "+r" (__x));
    return __x;
}

#if defined(QUEUEDEBUG)
#define QUEUEDEBUG_CIRCLEQ_HEAD(head, field) \
if ((head)->cqh_first != CIRCLEQ_ENDC(head) && \
(head)->cqh_first->field.cqe_prev != CIRCLEQ_ENDC(head)) \
QUEUEDEBUG_ABORT("CIRCLEQ head forw %p %s:%d", (head), \

```

```

    __FILE__, __LINE__); \
if ((head)->cqh_last != CIRCLEQ_ENDC(head) && \
    (head)->cqh_last->field.cqe_next != CIRCLEQ_ENDC(head)) \
    QUEUEDEBDEBUG_ABORT("CIRCLEQ head back %p %s:%d", (head), \
        __FILE__, __LINE__);
#define QUEUEDEBDEBUG_CIRCLEQ_ELM(head, elm, field) \
if ((elm)->field.cqe_next == CIRCLEQ_ENDC(head)) { \
    if ((head)->cqh_last != (elm)) \
        QUEUEDEBDEBUG_ABORT("CIRCLEQ \
elm last %p %s:%d", \
            (elm), __FILE__, __LINE__); \
} else { \
    if ((elm)->field.cqe_next->field.cqe_prev != (elm)) \
        QUEUEDEBDEBUG_ABORT("CIRCLEQ elm forw %p %s:%d", \
            (elm), __FILE__, __LINE__); \
} \
if ((elm)->field.cqe_prev == CIRCLEQ_ENDC(head)) { \
    if ((head)->cqh_first != (elm)) \
        QUEUEDEBDEBUG_ABORT("CIRCLEQ elm first %p %s:%d", \
            (elm), __FILE__, __LINE__); \
} else { \
    if ((elm)->field.cqe_prev->field.cqe_next != (elm)) \
        QUEUEDEBDEBUG_ABORT("CIRCLEQ elm prev %p %s:%d", \
            (elm), __FILE__, __LINE__); \
}
#define QUEUEDEBDEBUG_CIRCLEQ_POSTREMOVE(elm, field) \
(elm)->field.cqe_next = (void *)1L; \
(elm)->field.cqe_prev = (void *)1L;
#else
#define QUEUEDEBDEBUG_CIRCLEQ_HEAD(head, field)
#define QUEUEDEBDEBUG_CIRCLEQ_ELM(head, elm, field)
#define QUEUEDEBDEBUG_CIRCLEQ_POSTREMOVE(elm, field)
#endif

#define CIRCLEQ_HEAD(name, type) \
struct name { \
    struct type *cqh_first; /* \
    first element */ \
    struct type *cqh_last; /* last element */ \
}

#define CIRCLEQ_HEAD_INITIALIZER(head) \
{ CIRCLEQ_END(&head), CIRCLEQ_END(&head) }

#define CIRCLEQ_ENTRY(type) \
struct { \
    struct type *cqe_next; /* next element */ \
    struct type *cqe_prev; /* previous element */ \
}

```

```

}

/*
 * Circular queue functions.
 */

#define CIRCLEQ_INIT(head) do { \
    (head)->cqh_first = CIRCLEQ_END(head); \
    (head)->cqh_last = CIRCLEQ_END(head); \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_INSERT_AFTER(head, listelm, elm, field) do { \
    QUEUEDEBDEBUG_CIRCLEQ_HEAD((head), field) \
    QUEUEDEBDEBUG_CIRCLEQ_ELM((head), (listelm), field) \
    (elm)->field.cqe_next = (listelm)->field.cqe_next; \
    (elm)->field.cqe_prev = (listelm); \
    if ((listelm)->field.cqe_next == CIRCLEQ_ENDC(head)) \
        (head)->cqh_last = (elm); \
    else \
        (listelm)->field.cqe_next->field.cqe_prev = (elm); \
    (listelm)->field.cqe_next = (elm); \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_INSERT_BEFORE(head, \
    listelm, elm, field) do { \
    QUEUEDEBDEBUG_CIRCLEQ_HEAD((head), field) \
    QUEUEDEBDEBUG_CIRCLEQ_ELM((head), (listelm), field) \
    (elm)->field.cqe_next = (listelm); \
    (elm)->field.cqe_prev = (listelm)->field.cqe_prev; \
    if ((listelm)->field.cqe_prev == CIRCLEQ_ENDC(head)) \
        (head)->cqh_first = (elm); \
    else \
        (listelm)->field.cqe_prev->field.cqe_next = (elm); \
    (listelm)->field.cqe_prev = (elm); \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_INSERT_HEAD(head, elm, field) do { \
    QUEUEDEBDEBUG_CIRCLEQ_HEAD((head), field) \
    (elm)->field.cqe_next = (head)->cqh_first; \
    (elm)->field.cqe_prev = CIRCLEQ_END(head); \
    if ((head)->cqh_last == CIRCLEQ_ENDC(head)) \
        (head)->cqh_last = (elm); \
    else \
        (head)->cqh_first->field.cqe_prev = (elm); \
    (head)->cqh_first = (elm); \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_INSERT_TAIL(head, elm, field) do { \
    QUEUEDEBDEBUG_CIRCLEQ_HEAD((head), field) \

```

```

(elm)->field.cqe_next
= CIRCLEQ_END(head); \
(elm)->field.cqe_prev = (head)->cqh_last; \
if ((head)->cqh_first == CIRCLEQ_ENDC(head)) \
    (head)->cqh_first = (elm); \
else \
    (head)->cqh_last->field.cqe_next = (elm); \
    (head)->cqh_last = (elm); \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_REMOVE(head, elm, field) do { \
    QUEUEDEBUG_CIRCLEQ_HEAD((head), field) \
    QUEUEDEBUG_CIRCLEQ_ELM((head), (elm), field) \
    if ((elm)->field.cqe_next == CIRCLEQ_ENDC(head)) \
        (head)->cqh_last = (elm)->field.cqe_prev; \
    else \
        (elm)->field.cqe_next->field.cqe_prev = \
            (elm)->field.cqe_prev; \
    if ((elm)->field.cqe_prev == CIRCLEQ_ENDC(head)) \
        (head)->cqh_first = (elm)->field.cqe_next; \
    else \
        (elm)->field.cqe_prev->field.cqe_next = \
            (elm)->field.cqe_next; \
    QUEUEDEBUG_CIRCLEQ_POSTREMOVE((elm), field) \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_FOREACH(var, head, field) \
    for ((var) = ((head)->cqh_first); \
        (var) != CIRCLEQ_ENDC(head); \
        (var) \
        = ((var)->field.cqe_next))

#define CIRCLEQ_FOREACH_REVERSE(var, head, field) \
    for ((var) = ((head)->cqh_last); \
        (var) != CIRCLEQ_ENDC(head); \
        (var) = ((var)->field.cqe_prev))

/*
 * Circular queue access methods.
 */
#define CIRCLEQ_FIRST(head) ((head)->cqh_first)
#define CIRCLEQ_LAST(head) ((head)->cqh_last)
/* For comparisons */
#define CIRCLEQ_ENDC(head) (__launter_type(head))
/* For assignments */
#define CIRCLEQ_END(head) ((void *)(head))
#define CIRCLEQ_NEXT(elm, field) ((elm)->field.cqe_next)
#define CIRCLEQ_PREV(elm, field) ((elm)->field.cqe_prev)

```

```

#define CIRCLEQ_EMPTY(head) \
    (CIRCLEQ_FIRST(head) == CIRCLEQ_ENDC(head))

#define CIRCLEQ_LOOP_NEXT(head, elm, field) \
    (((elm)->field.cqe_next == CIRCLEQ_ENDC(head)) \
     ? ((head)->cqh_first) \
     : (elm->field.cqe_next))
#define CIRCLEQ_LOOP_PREV(head, elm, field) \
    (((elm)->field.cqe_prev == CIRCLEQ_ENDC(head)) \
     ? ((head)->cqh_last) \
     : \
     (elm->field.cqe_prev))
#endif /* !_KERNEL */

#endif /* !_SYS_QUEUE_H_ */
# Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
# Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>
pkgname=py3-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.2.4
pkgrel=3
pkgdesc="Extension for flake8 which checks for copyrights"
options="!check" # No testsuite
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="py3-flake8 py3-setuptools"
makedepends="py3-gpep517 py3-wheel"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/${_pkgname}/${_pkgname}-${pkgver}.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver

replaces="py-flake8-copyright" # Backwards compatibility
provides="py-flake8-copyright=$pkgver-r$pkgrel" # Backwards compatibility

build() {
    gpep517 build-wheel \
        --wheel-dir .dist \
        --output-fd 3 3>&1 >&2
}

package() {
    gpep517 install-wheel --destdir "$pkgdir" \
        .dist/*.whl
}

sha512sums="
a6ab47e1bb715618f075c51f398e18180404871b3b0faf1c2d30701d5203db6bc23771bf22ffb5bafcd8ee856b9b64237

```

```

b316bd503ae7dceed6ca284ccd5a74d
flake8-copyright-0.2.4.tar.gz
"

#ifndef _SYS_CDEFS_H_
#define _SYS_CDEFS_H_

#warning usage of non-standard #include <sys/cdefs.h> is deprecated

#undef __P
#undef __PMT

#define __P(args) args
#define __PMT(args) args

#define __CONCAT(x,y) x ## y
#define __STRING(x) #x

#ifdef __cplusplus
# define __BEGIN_DECLS extern "C" {
# define __END_DECLS }
#else
# define __BEGIN_DECLS
# define __END_DECLS
#endif

#if defined(__GNUC__) && !defined(__cplusplus)
# define __THROW __attribute__((__nothrow__))
# define __NTH(fct) __attribute__((__nothrow__)) fct
#else
# define __THROW
# define __NTH(fct) fct
#endif

#endif /* _SYS_CDEFS_H_ */
# Maintainer: fossdd <fossdd@pwned.life>
pkgname=cargo-license
pkgver=0.6.1
pkgrel=1
pkgdesc="Cargo subcommand to see license of dependencies"
url="https://github.com/onur/cargo-license"
arch="all"
license="MIT"
makedepends="cargo cargo-auditable"
source="$pkgname-$pkgver.tar.gz::https://crates.io/api/v1/crates/cargo-license/$pkgver/download"

prepare() {
    default_prepare

```

```

cargo fetch --target="$CTARGET" --locked
}

build() {
cargo auditable build --release --frozen
}

check() {
cargo test --frozen
}

package() {
install -Dm755 target/release/cargo-license -t "$pkgdir"/usr/bin
}

sha512sums="
36215145e79965be090ae2f5ce6f5eb208465eb67a94c26bed1fe70a131c46c6dc35695e30852759b7366883fbc3caf00
272d796ac634f0a5e1d49232b6b29d5 cargo-license-0.6.1.tar.gz
"

/* $NetBSD: tree.h,v 1.20 2013/09/14 13:20:45 joerg Exp $ */
/* $OpenBSD: tree.h,v 1.13 2011/07/09 00:19:45 pirofti Exp $ */
/* Modified by Void Linux. */
/*
* Copyright 2002 Niels Provos <provos@citi.umich.edu>
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
*
* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
* IN NO EVENT SHALL THE
AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

```

```

#ifndef _SYS_TREE_H_
#define _SYS_TREE_H_

#ifdef __GNUC__
#define __GNUC_PREREQ__(x, y) \
    ((__GNUC__ == (x) && __GNUC_MINOR__ >= (y)) || \
     (__GNUC__ > (x)))
#else
#define __GNUC_PREREQ__(x, y) 0
#endif

#if __GNUC_PREREQ__(2, 7) || defined(__lint__)
#define _sys_tree_h_unused __attribute__((__unused__))
#else
#define _sys_tree_h_unused /* delete */
#endif

/*
 * This file defines data structures for different types of trees:
 * splay trees and red-black trees.
 *
 * A splay tree is a self-organizing
 * data structure. Every operation
 * on the tree causes a splay to happen. The splay moves the requested
 * node to the root of the tree and partly rebalances it.
 *
 * This has the benefit that request locality causes faster lookups as
 * the requested nodes move to the top of the tree. On the other hand,
 * every lookup causes memory writes.
 *
 * The Balance Theorem bounds the total access time for m operations
 * and n inserts on an initially empty tree as  $O((m + n) \lg n)$ . The
 * amortized cost for a sequence of m accesses to a splay tree is  $O(\lg n)$ ;
 *
 * A red-black tree is a binary search tree with the node color as an
 * extra attribute. It fulfills a set of conditions:
 * - every search path from the root to a leaf consists of the
 *   same number of black nodes,
 * - each red node (except for the root) has a black parent,
 * - each leaf node is black.
 *
 * Every operation on a red-black tree is bounded as  $O(\lg n)$ .
 * The maximum height of a red-black tree is  $2 \lg (n+1)$ .
 */

#define SPLAY_HEAD(name, type) \
    struct name { \
        struct type *sph_root; /* root of the tree */ \

```



```

}

#define SPLAY_INITIALIZER(root) \
{ NULL }

#define SPLAY_INIT(root) do { \
    (root)->sph_root = NULL; \
} while (/*CONSTCOND*/ 0)

#define SPLAY_ENTRY(type) \
struct { \
    struct type *spe_left; /* left element */ \
    struct type *spe_right; /* right element */ \
}

#define SPLAY_LEFT(elm, field) (elm)->field.spe_left
#define SPLAY_RIGHT(elm, field) (elm)->field.spe_right
#define SPLAY_ROOT(head) (head)->sph_root
#define SPLAY_EMPTY(head) (SPLAY_ROOT(head) == NULL)

/* SPLAY_ROTATE_{LEFT,RIGHT} expect that tmp hold SPLAY_{RIGHT,LEFT} */
#define SPLAY_ROTATE_RIGHT(head, tmp, field) do { \
    SPLAY_LEFT((head)->sph_root, field) = SPLAY_RIGHT(tmp, field); \
    SPLAY_RIGHT(tmp, field) = (head)->sph_root; \
    (head)->sph_root = tmp; \
} while (/*CONSTCOND*/ 0)

#define SPLAY_ROTATE_LEFT(head, tmp, field) do { \
    SPLAY_RIGHT((head)->sph_root, \
    field) = SPLAY_LEFT(tmp, field); \
    SPLAY_LEFT(tmp, field) = (head)->sph_root; \
    (head)->sph_root = tmp; \
} while (/*CONSTCOND*/ 0)

#define SPLAY_LINKLEFT(head, tmp, field) do { \
    SPLAY_LEFT(tmp, field) = (head)->sph_root; \
    tmp = (head)->sph_root; \
    (head)->sph_root = SPLAY_LEFT((head)->sph_root, field); \
} while (/*CONSTCOND*/ 0)

#define SPLAY_LINKRIGHT(head, tmp, field) do { \
    SPLAY_RIGHT(tmp, field) = (head)->sph_root; \
    tmp = (head)->sph_root; \
    (head)->sph_root = SPLAY_RIGHT((head)->sph_root, field); \
} while (/*CONSTCOND*/ 0)

#define SPLAY_ASSEMBLE(head, node, left, right, field) do { \
    SPLAY_RIGHT(left, field) = SPLAY_LEFT((head)->sph_root, field); \

```

```

    SPLAY_LEFT(right, field) = SPLAY_RIGHT((head)->sph_root, field);\
    SPLAY_LEFT((head)->sph_root, field) = SPLAY_RIGHT(node, field);\
    SPLAY_RIGHT((head)->sph_root, field) = SPLAY_LEFT(node, field);\
} while (/*CONSTCOND*/ 0)

```

```

/* Generates prototypes and inline functions */

```

```

#define

```

```

    SPLAY_PROTOTYPE(name, type, field, cmp) \
    void name##_SPLAY(struct name *, struct type *); \
    void name##_SPLAY_MINMAX(struct name *, int); \
    struct type *name##_SPLAY_INSERT(struct name *, struct type *); \
    struct type *name##_SPLAY_REMOVE(struct name *, struct type *); \
    \

```

```

/* Finds the node with the same key as elm */ \

```

```

static __inline struct type * \
name##_SPLAY_FIND(struct name *head, struct type *elm) \
{ \
    if (SPLAY_EMPTY(head)) \
        return(NULL); \
    name##_SPLAY(head, elm); \
    if ((cmp)(elm, (head)->sph_root) == 0) \
        return (head->sph_root); \
    return (NULL); \
} \

```

```

static __inline _sys_tree_h_unused struct type * \
name##_SPLAY_NEXT(struct name *head, struct type *elm) \
{ \
    name##_SPLAY(head, elm); \
    if (SPLAY_RIGHT(elm, field) != NULL) { \
        elm = SPLAY_RIGHT(elm, field); \
        while (SPLAY_LEFT(elm, field) != NULL) { \
            elm = SPLAY_LEFT(elm, field); \
        } \
    } \
    else \
        elm = NULL; \
    return (elm); \
} \

```

```

static _sys_tree_h_unused __inline struct type * \
name##_SPLAY_MIN_MAX(struct name *head, int val) \
{ \
    name##_SPLAY_MINMAX(head, val); \
    return (SPLAY_ROOT(head)); \
}

```

```

/* Main splay operation.
 * Moves node close to the key of elm to top
 */
#define SPLAY_GENERATE(name, type, field, cmp) \
struct type * \
name##_SPLAY_INSERT(struct name *head, struct type *elm) \
{ \
    if (SPLAY_EMPTY(head)) { \
        SPLAY_LEFT(elm, field) = SPLAY_RIGHT(elm, field) = NULL; \
    } else { \
        int __comp; \
        name##_SPLAY(head, elm); \
        __comp = (cmp)(elm, (head)->sph_root); \
        if(__comp < 0) { \
            SPLAY_LEFT(elm, field) = SPLAY_LEFT((head)->sph_root, field);\
            SPLAY_RIGHT(elm, field) = (head)->sph_root; \
            SPLAY_LEFT((head)->sph_root, field) = NULL; \
        } else if (__comp > 0) { \
            SPLAY_RIGHT(elm, \
field) = SPLAY_RIGHT((head)->sph_root, field);\
            SPLAY_LEFT(elm, field) = (head)->sph_root; \
            SPLAY_RIGHT((head)->sph_root, field) = NULL; \
        } else \
            return ((head)->sph_root); \
    } \
    (head)->sph_root = (elm); \
    return (NULL); \
} \
\
struct type * \
name##_SPLAY_REMOVE(struct name *head, struct type *elm) \
{ \
    struct type *__tmp; \
    if (SPLAY_EMPTY(head)) \
        return (NULL); \
    name##_SPLAY(head, elm); \
    if ((cmp)(elm, (head)->sph_root) == 0) { \
        if (SPLAY_LEFT((head)->sph_root, field) == NULL) { \
            (head)->sph_root = SPLAY_RIGHT((head)->sph_root, field);\
        } else { \
            __tmp = SPLAY_RIGHT((head)->sph_root, field); \
            (head)->sph_root = SPLAY_LEFT((head)->sph_root, field);\
            name##_SPLAY(head, elm); \
            SPLAY_RIGHT((head)->sph_root, field) = __tmp; \
        } \
        return (elm); \
    } \
    return (NULL); \
}

```

```

} \
\
void \
name##_SPLAY(struct
name *head, struct type *elm) \
{ \
struct type __node, *__left, *__right, *__tmp; \
int __comp; \
\
SPLAY_LEFT(&__node, field) = SPLAY_RIGHT(&__node, field) = NULL;\
__left = __right = &__node; \
\
while ((__comp = (cmp)(elm, (head)->sph_root)) != 0) { \
if (__comp < 0) { \
__tmp = SPLAY_LEFT((head)->sph_root, field); \
if (__tmp == NULL) \
break; \
if ((cmp)(elm, __tmp) < 0){ \
SPLAY_ROTATE_RIGHT(head, __tmp, field); \
if (SPLAY_LEFT((head)->sph_root, field) == NULL)\
break; \
} \
SPLAY_LINKLEFT(head, __right, field); \
} else if (__comp > 0) { \
__tmp = SPLAY_RIGHT((head)->sph_root, field); \
if (__tmp == NULL) \
break; \
if ((cmp)(elm, __tmp) > 0){ \
SPLAY_ROTATE_LEFT(head, __tmp, field); \
if (SPLAY_RIGHT((head)->sph_root, field) == NULL)\
break; \
} \
SPLAY_LINKRIGHT(head, __left, field); \
} \
} \
SPLAY_ASSEMBLE(head,
&__node, __left, __right, field); \
} \
\
/* Splay with either the minimum or the maximum element \
* Used to find minimum or maximum element in tree. \
*/ \
void name##_SPLAY_MINMAX(struct name *head, int __comp) \
{ \
struct type __node, *__left, *__right, *__tmp; \
\
SPLAY_LEFT(&__node, field) = SPLAY_RIGHT(&__node, field) = NULL;\
__left = __right = &__node; \

```

```

\
while (1) {
    \
    if (__comp < 0) {
        \
        __tmp = SPLAY_LEFT((head)->sph_root, field); \
        if (__tmp == NULL)
            break;
        \
        if (__comp < 0){
            \
            SPLAY_ROTATE_RIGHT(head, __tmp, field); \
            if (SPLAY_LEFT((head)->sph_root, field) == NULL)\
                break;
            \
        }
        \
        SPLAY_LINKLEFT(head, __right, field); \
    } else if (__comp > 0) {
        \
        __tmp = SPLAY_RIGHT((head)->sph_root, field); \
        if (__tmp == NULL)
            break;
        \
        if (__comp > 0) {
            \
            SPLAY_ROTATE_LEFT(head, __tmp, field); \
            if (SPLAY_RIGHT((head)->sph_root,
field) == NULL)\
                break;
            \
        }
        \
        SPLAY_LINKRIGHT(head, __left, field); \
    }
    \
    SPLAY_ASSEMBLE(head, &__node, __left, __right, field); \
}

#define SPLAY_NEGINF -1
#define SPLAY_INF 1

#define SPLAY_INSERT(name, x, y) name##_SPLAY_INSERT(x, y)
#define SPLAY_REMOVE(name, x, y) name##_SPLAY_REMOVE(x, y)
#define SPLAY_FIND(name, x, y) name##_SPLAY_FIND(x, y)
#define SPLAY_NEXT(name, x, y) name##_SPLAY_NEXT(x, y)
#define SPLAY_MIN(name, x) (SPLAY_EMPTY(x) ? NULL \
    : name##_SPLAY_MIN_MAX(x, SPLAY_NEGINF))
#define SPLAY_MAX(name, x) (SPLAY_EMPTY(x) ? NULL \
    : name##_SPLAY_MIN_MAX(x, SPLAY_INF))

#define SPLAY_FOREACH(x, name, head) \
    for ((x) = SPLAY_MIN(name, head); \
        (x) != NULL; \
        (x) = SPLAY_NEXT(name, head, x))

/* Macros that define a red-black tree */
#define RB_HEAD(name, type) \
    struct name {

```

```

struct type *rbh_root; /* root of the tree */ \
}

#define RB_INITIALIZER(root) \
{
    NULL }

#define RB_INIT(root) do { \
    (root)->rbh_root = NULL; \
} while (/*CONSTCOND*/ 0)

#define RB_BLACK 0
#define RB_RED 1
#define RB_ENTRY(type) \
struct { \
    struct type *rbe_left; /* left element */ \
    struct type *rbe_right; /* right element */ \
    struct type *rbe_parent; /* parent element */ \
    int rbe_color; /* node color */ \
}

#define RB_LEFT(elm, field) (elm)->field.rbe_left
#define RB_RIGHT(elm, field) (elm)->field.rbe_right
#define RB_PARENT(elm, field) (elm)->field.rbe_parent
#define RB_COLOR(elm, field) (elm)->field.rbe_color
#define RB_ROOT(head) (head)->rbh_root
#define RB_EMPTY(head) (RB_ROOT(head) == NULL)

#define RB_SET(elm, parent, field) do { \
    RB_PARENT(elm, field) = parent; \
    RB_LEFT(elm, field) = RB_RIGHT(elm, field) = NULL; \
    RB_COLOR(elm, field) = RB_RED; \
} while (/*CONSTCOND*/ 0)

#define RB_SET_BLACKRED(black, red, field) do { \
    RB_COLOR(black, field) = RB_BLACK; \
    RB_COLOR(red, field) \
    = RB_RED; \
} while (/*CONSTCOND*/ 0)

#ifndef RB_AUGMENT
#define RB_AUGMENT(x) do {} while (/*CONSTCOND*/ 0)
#endif

#define RB_ROTATE_LEFT(head, elm, tmp, field) do { \
    (tmp) = RB_RIGHT(elm, field); \
    if ((RB_RIGHT(elm, field) = RB_LEFT(tmp, field)) != NULL) { \
        RB_PARENT(RB_LEFT(tmp, field), field) = (elm); \

```

```

} \
RB_AUGMENT(elm); \
if ((RB_PARENT(tmp, field) = RB_PARENT(elm, field)) != NULL) { \
    if ((elm) == RB_LEFT(RB_PARENT(elm, field), field)) \
        RB_LEFT(RB_PARENT(elm, field), field) = (tmp); \
    else \
        RB_RIGHT(RB_PARENT(elm, field), field) = (tmp); \
} else \
    (head)->rbh_root = (tmp); \
    RB_LEFT(tmp, field) = (elm); \
    RB_PARENT(elm, field) = (tmp); \
    RB_AUGMENT(tmp); \
    if ((RB_PARENT(tmp, field))) \
        RB_AUGMENT(RB_PARENT(tmp, field)); \
} while (/*CONSTCOND*/ 0)

#define RB_ROTATE_RIGHT(head, elm, tmp, field) do { \
    (tmp) = RB_LEFT(elm, field); \
    if ((RB_LEFT(elm, field) = RB_RIGHT(tmp, field)) \
        != NULL) { \
        RB_PARENT(RB_RIGHT(tmp, field), field) = (elm); \
    } \
    RB_AUGMENT(elm); \
    if ((RB_PARENT(tmp, field) = RB_PARENT(elm, field)) != NULL) { \
        if ((elm) == RB_LEFT(RB_PARENT(elm, field), field)) \
            RB_LEFT(RB_PARENT(elm, field), field) = (tmp); \
        else \
            RB_RIGHT(RB_PARENT(elm, field), field) = (tmp); \
    } else \
        (head)->rbh_root = (tmp); \
        RB_RIGHT(tmp, field) = (elm); \
        RB_PARENT(elm, field) = (tmp); \
        RB_AUGMENT(tmp); \
        if ((RB_PARENT(tmp, field))) \
            RB_AUGMENT(RB_PARENT(tmp, field)); \
    } while (/*CONSTCOND*/ 0)

/* Generates prototypes and inline functions */
#define RB_PROTOTYPE(name, type, field, cmp) \
    RB_PROTOTYPE_INTERNAL(name, type, field, cmp,)
#define RB_PROTOTYPE_STATIC(name, type, field, cmp) \
    RB_PROTOTYPE_INTERNAL(name, type, field, cmp, _sys_tree_h_unused static)
#define RB_PROTOTYPE_INTERNAL(name, type, field, cmp, attr) \
    attr void name##_RB_INSERT_COLOR(struct name *, struct \
    type *); \
    attr void name##_RB_REMOVE_COLOR(struct name *, struct type *, struct type *); \
    attr struct type *name##_RB_REMOVE(struct name *, struct type *); \
    attr struct type *name##_RB_INSERT(struct name *, struct type *); \

```

```

attr struct type *name##_RB_FIND(struct name *, struct type *); \
attr struct type *name##_RB_NFIND(struct name *, struct type *); \
attr struct type *name##_RB_NEXT(struct type *); \
attr struct type *name##_RB_PREV(struct type *); \
attr struct type *name##_RB_MINMAX(struct name *, int); \
\

/* Main rb operation.
* Moves node close to the key of elm to top
*/
#define RB_GENERATE(name, type, field, cmp) \
    RB_GENERATE_INTERNAL(name, type, field, cmp,)
#define RB_GENERATE_STATIC(name, type, field, cmp) \
    RB_GENERATE_INTERNAL(name, type, field, cmp, _sys_tree_h_unused static)
#define RB_GENERATE_INTERNAL(name, type, field, cmp, attr) \
attr void \
name##_RB_INSERT_COLOR(struct name *head, struct type *elm) \
{ \
    struct type \
    *parent, *gparent, *tmp; \
    while ((parent = RB_PARENT(elm, field)) != NULL && \
        RB_COLOR(parent, field) == RB_RED) { \
        gparent = RB_PARENT(parent, field); \
        if (parent == RB_LEFT(gparent, field)) { \
            tmp = RB_RIGHT(gparent, field); \
            if (tmp && RB_COLOR(tmp, field) == RB_RED) { \
                RB_COLOR(tmp, field) = RB_BLACK; \
                RB_SET_BLACKRED(parent, gparent, field);\
                elm = gparent; \
                continue; \
            } \
            if (RB_RIGHT(parent, field) == elm) { \
                RB_ROTATE_LEFT(head, parent, tmp, field);\
                tmp = parent; \
                parent = elm; \
                elm = tmp; \
            } \
            RB_SET_BLACKRED(parent, gparent, field); \
            RB_ROTATE_RIGHT(head, gparent, tmp, field); \
        } else { \
            tmp = RB_LEFT(gparent, field); \
            if (tmp && RB_COLOR(tmp, field) == RB_RED) { \
                RB_COLOR(tmp, field) = RB_BLACK; \
                RB_SET_BLACKRED(parent, gparent, field);\
                elm = gparent; \
                continue; \
            } \
            if (RB_LEFT(parent, field) == elm)

```



```

{ \
    RB_ROTATE_RIGHT(head, parent, tmp, field);\
    tmp = parent; \
    parent = elm; \
    elm = tmp; \
} \
RB_SET_BLACKRED(parent, gparent, field);\
RB_ROTATE_LEFT(head, gparent, tmp, field);\
} \
} \
RB_COLOR(head->rbh_root, field) = RB_BLACK; \
} \
\
attr void \
name##_RB_REMOVE_COLOR(struct name *head, struct type *parent, struct type *elm) \
{ \
    struct type *tmp; \
    while ((elm == NULL || RB_COLOR(elm, field) == RB_BLACK) && \
        elm != RB_ROOT(head)) { \
        if (RB_LEFT(parent, field) == elm) { \
            tmp = RB_RIGHT(parent, field); \
            if (RB_COLOR(tmp, field) == RB_RED) { \
                RB_SET_BLACKRED(tmp, parent, field);\
                RB_ROTATE_LEFT(head, parent, tmp, field);\
                tmp = RB_RIGHT(parent, field); \
            } \
            if ((RB_LEFT(tmp, field) == NULL || \
                RB_COLOR(RB_LEFT(tmp, field), field) == RB_BLACK) && \
                (RB_RIGHT(tmp, field) == NULL || \
                RB_COLOR(RB_RIGHT(tmp, field), field) == RB_BLACK)) {\
                RB_COLOR(tmp, field) = RB_RED; \
                elm = parent; \
                parent = RB_PARENT(elm, field); \
            } else { \
                if (RB_RIGHT(tmp, field) == NULL || \
                    RB_COLOR(RB_RIGHT(tmp, field), field) == RB_BLACK) {\
                    struct type *oleft; \
                    if ((oleft = RB_LEFT(tmp, field)) \
                        != NULL) \
                        RB_COLOR(oleft, field) = RB_BLACK;\
                    RB_COLOR(tmp, field) = RB_RED; \
                    RB_ROTATE_RIGHT(head, tmp, oleft, field);\
                    tmp = RB_RIGHT(parent, field); \
                } \
                RB_COLOR(tmp, field) = RB_COLOR(parent, field);\
                RB_COLOR(parent, field) = RB_BLACK; \
                if (RB_RIGHT(tmp, field)) \

```

```

    RB_COLOR(RB_RIGHT(tmp, field), field) = RB_BLACK;\
    RB_ROTATE_LEFT(head, parent, tmp, field);\
    elm = RB_ROOT(head); \
    break; \
} \
} else { \
    tmp = RB_LEFT(parent, field); \
    if (RB_COLOR(tmp, field) == RB_RED) { \
        RB_SET_BLACKRED(tmp, parent, field);\
        RB_ROTATE_RIGHT(head, parent, tmp, field);\
        tmp
= RB_LEFT(parent, field); \
    } \
    if ((RB_LEFT(tmp, field) == NULL || \
        RB_COLOR(RB_LEFT(tmp, field), field) == RB_BLACK) &&\
        (RB_RIGHT(tmp, field) == NULL || \
        RB_COLOR(RB_RIGHT(tmp, field), field) == RB_BLACK)) {\
        RB_COLOR(tmp, field) = RB_RED; \
        elm = parent; \
        parent = RB_PARENT(elm, field); \
    } else { \
        if (RB_LEFT(tmp, field) == NULL || \
            RB_COLOR(RB_LEFT(tmp, field), field) == RB_BLACK) {\
            struct type *oright; \
            if ((oright = RB_RIGHT(tmp, field)) \
                != NULL) \
                RB_COLOR(oright, field) = RB_BLACK;\
            RB_COLOR(tmp, field) = RB_RED; \
            RB_ROTATE_LEFT(head, tmp, oright, field);\
            tmp = RB_LEFT(parent, field); \
        } \
        RB_COLOR(tmp, field) = RB_COLOR(parent, field);\
        RB_COLOR(parent, field) = RB_BLACK; \
        if (RB_LEFT(tmp, field)) \
            RB_COLOR(RB_LEFT(tmp, field), field) = RB_BLACK;\
        RB_ROTATE_RIGHT(head, parent, tmp, field);\
        elm = RB_ROOT(head); \
        break; \
    } \
} \
} \
if
(elm) \
    RB_COLOR(elm, field) = RB_BLACK; \
} \
\
attr struct type * \
name##_RB_REMOVE(struct name *head, struct type *elm) \

```

```

{
    \
    struct type *child, *parent, *old = elm; \
    int color; \
    if (RB_LEFT(elm, field) == NULL) \
        child = RB_RIGHT(elm, field); \
    else if (RB_RIGHT(elm, field) == NULL) \
        child = RB_LEFT(elm, field); \
    else { \
        struct type *left; \
        elm = RB_RIGHT(elm, field); \
        while ((left = RB_LEFT(elm, field)) != NULL) \
            elm = left; \
        child = RB_RIGHT(elm, field); \
        parent = RB_PARENT(elm, field); \
        color = RB_COLOR(elm, field); \
        if (child) \
            RB_PARENT(child, field) = parent; \
        if (parent) { \
            if (RB_LEFT(parent, field) == elm) \
                RB_LEFT(parent, field) = child; \
            else \
                RB_RIGHT(parent, field) = child; \
            RB_AUGMENT(parent); \
        } else \
            RB_ROOT(head)
    = child; \
    if (RB_PARENT(elm, field) == old) \
        parent = elm; \
    (elm)->field = (old)->field; \
    if (RB_PARENT(old, field)) { \
        if (RB_LEFT(RB_PARENT(old, field), field) == old)\
            RB_LEFT(RB_PARENT(old, field), field) = elm;\
        else \
            RB_RIGHT(RB_PARENT(old, field), field) = elm;\
        RB_AUGMENT(RB_PARENT(old, field)); \
    } else \
        RB_ROOT(head) = elm; \
    RB_PARENT(RB_LEFT(old, field), field) = elm; \
    if (RB_RIGHT(old, field)) \
        RB_PARENT(RB_RIGHT(old, field), field) = elm; \
    if (parent) { \
        left = parent; \
        do { \
            RB_AUGMENT(left); \
        } while ((left = RB_PARENT(left, field)) != NULL); \
    } \
    goto color; \
} \

```

```

parent = RB_PARENT(elm, field); \
color = RB_COLOR(elm, field); \
if (child) \
    RB_PARENT(child, field) = parent; \
if (parent) { \
    if (RB_LEFT(parent, field) == elm) \
        RB_LEFT(parent, field) = child; \
    else \
        RB_RIGHT(parent,
field) = child; \
    RB_AUGMENT(parent); \
} else \
    RB_ROOT(head) = child; \
color: \
if (color == RB_BLACK) \
    name##_RB_REMOVE_COLOR(head, parent, child); \
return (old); \
} \
\
/* Inserts a node into the RB tree */ \
attr struct type * \
name##_RB_INSERT(struct name *head, struct type *elm) \
{ \
    struct type *tmp; \
    struct type *parent = NULL; \
    int comp = 0; \
    tmp = RB_ROOT(head); \
    while (tmp) { \
        parent = tmp; \
        comp = (cmp)(elm, parent); \
        if (comp < 0) \
            tmp = RB_LEFT(tmp, field); \
        else if (comp > 0) \
            tmp = RB_RIGHT(tmp, field); \
        else \
            return (tmp); \
    } \
    RB_SET(elm, parent, field); \
    if (parent != NULL) { \
        if (comp < 0) \
            RB_LEFT(parent, field) = elm; \
        else \
            RB_RIGHT(parent, field) = elm; \
        RB_AUGMENT(parent); \
    } else \
        RB_ROOT(head) = elm; \
    name##_RB_INSERT_COLOR(head,

```

```

elm); \
return (NULL); \
} \
\
/* Finds the node with the same key as elm */ \
attr struct type * \
name##_RB_FIND(struct name *head, struct type *elm) \
{ \
    struct type *tmp = RB_ROOT(head); \
    int comp; \
    while (tmp) { \
        comp = cmp(elm, tmp); \
        if (comp < 0) \
            tmp = RB_LEFT(tmp, field); \
        else if (comp > 0) \
            tmp = RB_RIGHT(tmp, field); \
        else \
            return (tmp); \
    } \
    return (NULL); \
} \
\
/* Finds the first node greater than or equal to the search key */ \
attr struct type * \
name##_RB_NFIND(struct name *head, struct type *elm) \
{ \
    struct type *tmp = RB_ROOT(head); \
    struct type *res = NULL; \
    int comp; \
    while (tmp) { \
        comp = cmp(elm, tmp); \
        if (comp < 0) { \
            res = tmp; \
            tmp = RB_LEFT(tmp, field); \
        } \
        else if (comp > 0) \
            tmp = \
RB_RIGHT(tmp, field); \
        else \
            return (tmp); \
    } \
    return (res); \
} \
\
/* ARGSUSED */ \
attr struct type * \
name##_RB_NEXT(struct type *elm) \
{ \

```

```

if (RB_RIGHT(elm, field)) { \
    elm = RB_RIGHT(elm, field); \
    while (RB_LEFT(elm, field)) \
        elm = RB_LEFT(elm, field); \
} else { \
    if (RB_PARENT(elm, field) && \
        (elm == RB_LEFT(RB_PARENT(elm, field), field))) \
        elm = RB_PARENT(elm, field); \
    else { \
        while (RB_PARENT(elm, field) && \
            (elm == RB_RIGHT(RB_PARENT(elm, field), field))) \
            elm = RB_PARENT(elm, field); \
        elm = RB_PARENT(elm, field); \
    } \
} \
return (elm); \
} \
\
/* ARGSUSED */ \
attr struct type * \
name##_RB_PREV(struct type *elm) \
{ \
    if (RB_LEFT(elm, field)) { \
        elm = RB_LEFT(elm, field); \
        while (RB_RIGHT(elm, field)) \
            elm = RB_RIGHT(elm, field); \
    } \
    else { \
        if (RB_PARENT(elm, field) && \
            (elm == RB_RIGHT(RB_PARENT(elm, field), field))) \
            elm = RB_PARENT(elm, field); \
        else { \
            while (RB_PARENT(elm, field) && \
                (elm == RB_LEFT(RB_PARENT(elm, field), field))) \
                elm = RB_PARENT(elm, field); \
            elm = RB_PARENT(elm, field); \
        } \
    } \
    return (elm); \
} \
\
attr struct type * \
name##_RB_MINMAX(struct name *head, int val) \
{ \
    struct type *tmp = RB_ROOT(head); \
    struct type *parent = NULL; \
    while (tmp) { \
        parent = tmp; \

```

```

if (val < 0)    \
    tmp = RB_LEFT(tmp, field); \
else          \
    tmp = RB_RIGHT(tmp, field); \
}             \
return (parent); \
}

#define RB_NEGINF -1
#define RB_INF 1

#define RB_INSERT(name, x, y) name##_RB_INSERT(x, y)
#define RB_REMOVE(name, x, y) name##_RB_REMOVE(x, y)
#define RB_FIND(name, x, y) name##_RB_FIND(x, y)
#define RB_NFIND(name, x, y) name##_RB_NFIND(x,
y)
#define RB_NEXT(name, x, y) name##_RB_NEXT(y)
#define RB_PREV(name, x, y) name##_RB_PREV(y)
#define RB_MIN(name, x) name##_RB_MINMAX(x, RB_NEGINF)
#define RB_MAX(name, x) name##_RB_MINMAX(x, RB_INF)

#define RB_FOREACH(x, name, head)    \
for ((x) = RB_MIN(name, head);    \
     (x) != NULL;    \
     (x) = name##_RB_NEXT(x))

#define RB_FOREACH_FROM(x, name, y)    \
for ((x) = (y);    \
     ((x) != NULL) && ((y) = name##_RB_NEXT(x), (x) != NULL); \
     (x) = (y))

#define RB_FOREACH_SAFE(x, name, head, y)    \
for ((x) = RB_MIN(name, head);    \
     ((x) != NULL) && ((y) = name##_RB_NEXT(x), (x) != NULL); \
     (x) = (y))

#define RB_FOREACH_REVERSE(x, name, head)    \
for ((x) = RB_MAX(name, head);    \
     (x) != NULL;    \
     (x) = name##_RB_PREV(x))

#define RB_FOREACH_REVERSE_FROM(x, name, y)    \
for ((x) = (y);    \
     ((x) != NULL) && ((y) = name##_RB_PREV(x), (x) != NULL); \
     (x) = (y))

#define RB_FOREACH_REVERSE_SAFE(x, name,

```

```

head, y) \
for ((x) = RB_MAX(name, head); \
    ((x) != NULL) && ((y) = name##_RB_PREV(x), (x) != NULL); \
    (x) = (y))

#endif /* _SYS_TREE_H_ */

```

1.95 cffi 2.0.0

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1.97 libldap-2.6 2.6.10-r6

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1.98 grep 3.11-r0

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```
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1.103 busybox 1.37.0-r50

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jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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1.104 jaraco.context 5.3.0

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1.106 musl-utils 1.2.5-r9

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1.107 skalibs-libs 2.14.3.0-r0

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1.108 jinja 3.1.6

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1.109 cachecontrol 0.14.3

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1.110 inflect 7.3.1

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1.111 openpyxl 3.1.2

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Metadata-Version: 2.1

Name: openpyxl

Version: 3.1.2

Summary: A Python library to read/write Excel 2010 xlsx/xlsm files

Home-page: <https://openpyxl.readthedocs.io>

Author: See AUTHORS

Author-email: charlie.clark@clark-consulting.eu

License: MIT

Project-URL: Documentation, <https://openpyxl.readthedocs.io/en/stable/>

Project-URL: Source, <https://foss.heptapod.net/openpyxl/openpyxl>

Project-URL: Tracker, <https://foss.heptapod.net/openpyxl/openpyxl/-/issues>

Classifier: Development Status :: 5 - Production/Stable

Classifier: Operating System :: MacOS :: MacOS X

Classifier: Operating System :: Microsoft :: Windows

Classifier: Operating System :: POSIX

Classifier: License :: OSI Approved :: MIT License

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: 3.7

Classifier: Programming Language :: Python :: 3.8

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Python :: 3.9

Classifier: Programming Language :: Python :: 3.10

Classifier: Programming Language :: Python :: 3.11

Requires-Python: >=3.6

License-File: LICENCE.rst

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:target: <https://coveralls.io/bitbucket/openpyxl/openpyxl?branch=default>

:alt: coverage status

Introduction

openpyxl is a Python library to read/write Excel 2010 xlsx/xlsm/xltx/xltn files.

It was born from lack of existing library to read/write natively from Python the Office Open XML format.

All kudos to the PHPExcel team as openpyxl was initially based on PHPExcel.

Security

By default openpyxl does not guard against quadratic blowup or billion laughs xml attacks. To guard against these attacks install defusedxml.

Mailing List

The user list can be found on <http://groups.google.com/group/openpyxl-users>

Sample code::

```
from openpyxl import Workbook
wb = Workbook()

# grab
the active worksheet
ws = wb.active

# Data can be assigned directly to cells
ws['A1'] = 42

# Rows can also be appended
ws.append([1, 2, 3])

# Python types will automatically be converted
import datetime
ws['A2'] = datetime.datetime.now()

# Save the file
wb.save("sample.xlsx")
```

Documentation

The documentation is at: <https://openpyxl.readthedocs.io>

- * installation methods
- * code examples
- * instructions for contributing

Release notes: <https://openpyxl.readthedocs.io/en/stable/changes.html>

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1.112 django-axes 8.0.0

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1.113 truststore 0.10.4

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1.114 typing-extensions 4.12.2

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=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <https://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 <https://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.

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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		
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1.115 keyutils-libs 1.6.3-r37

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1.116 rich 14.1.0

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1.117 zlib 1.3.1-r2

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1.118 gunicorn 23.0.0

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gunicorn.logging_config

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util/unlink.py

backport from python3 Lib/test/support.py
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1.119 chainguard-baselayout 20230214-r15

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//
// The following code has been adjusted from Ruby to Go from the Licensee project.
```

```
package license
```

```
import "regexp"
```

```
var
(
    preferredExt    = []string{".md", ".markdown", ".txt", ".html"}
    ignoredExt      = []string{".xml", ".go", ".gemspec", ".spdx", ".header"}
    preferredExtRegex = regexp.MustCompile(`\.(?:` + regexp.QuoteMeta(preferredExt[0]) + `|` +
    regexp.QuoteMeta(preferredExt[1]) + `|` + regexp.QuoteMeta(preferredExt[2]) + `|` +
    regexp.QuoteMeta(preferredExt[3]) + `)`$`)
    anyExtRegex      = regexp.MustCompile(`\.[^./]+$`)
    licenseRegex     = regexp.MustCompile(`(?i)(un)?licen[sc]e`)
    copyingRegex     = regexp.MustCompile(`(?i)copy(ing|right)`)
    oflRegex         = regexp.MustCompile(`(?i)ofl`)
    patentsRegex     = regexp.MustCompile(`(?i)patents`)
    filenameRegexes  = map[*regexp.Regexp]float64{
        regexp.MustCompile(`(?i)^` + licenseRegex.String() + `$`):          1.00, // LICENSE
        regexp.MustCompile(`(?i)^` + licenseRegex.String() + preferredExtRegex.String() + `$`): 0.95, //
LICENSE.md
        regexp.MustCompile(`(?i)^` + copyingRegex.String() + `$`):          0.90, // COPYING
        regexp.MustCompile(`(?i)^` + copyingRegex.String() + preferredExtRegex.String() + `$`): 0.85, //
COPYING.md
        regexp.MustCompile(`(?i)^` + licenseRegex.String() + anyExtRegex.String() + `$`):      0.80, //
LICENSE.textile
        regexp.MustCompile(`(?i)^` + copyingRegex.String() + anyExtRegex.String() + `$`):      0.75, //
```

```

COPYING.textile
  regexp.MustCompile(`(?i)^` + licenseRegex.String() + `[_[^.]` + anyExtRegex.String() + `?$`): 0.70, //
LICENSE-MIT
  regexp.MustCompile(`(?i)^` + copyingRegex.String() + `[_[^.]` + anyExtRegex.String() + `?$`): 0.65, //
COPYING-MIT
  regexp.MustCompile(`(?i)^\w+[-_]` + licenseRegex.String() + `[_[^.]` + anyExtRegex.String() + `?$`): 0.60, // MIT-
LICENSE-MIT
  regexp.MustCompile(`(?i)^\w+[-_]` + copyingRegex.String() + `[_[^.]` + anyExtRegex.String() + `?$`): 0.55, // MIT-
COPYING
  regexp.MustCompile(`(?i)^` + oflRegex.String() + preferredExtRegex.String()):
    0.50, // OFL.md
  regexp.MustCompile(`(?i)^` + oflRegex.String() + anyExtRegex.String()): 0.45, // OFL.textile
  regexp.MustCompile(`(?i)^` + oflRegex.String() + `$`): 0.40, // OFL
  regexp.MustCompile(`(?i)^` + patentsRegex.String() + `$`): 0.35, // PATENTS
  regexp.MustCompile(`(?i)^` + patentsRegex.String() + anyExtRegex.String() + `$`): 0.30, //
PATENTS.txt
}
)
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package license

import (
  "context"
  "fmt"
  "io/fs"
  "path/filepath"
  "regexp"
  "slices"
  "sort"
  "strings"

  "chainguard.dev/melange/pkg/config"
  "github.com/chainguard-dev/clog"
  glicenses "github.com/google/go-licenses/v2/licenses"
  licenseclassifier "github.com/google/licenseclassifier/v2"

```

```

"github.com/google/licenseclassifier/v2/assets"
)

// NOTE: the detection logic is done via a Classifier type
// as this is how it was
// implemented, for instance, in the go-licenses project (also using licenseclassifier).

// Classifier can detect the type of a software license.
type Classifier interface {
    Identify(fs fs.FS, licensePath string) ([]License, error)
}

type melangeClassifier struct {
    classifier *licenseclassifier.Classifier
}

// NewClassifier creates a license classifier.
func NewClassifier() (Classifier, error) {
    c, err := assets.DefaultClassifier()
    if err != nil {
        return nil, err
    }
    return &melangeClassifier{classifier: c}, nil
}

// License represents a software license, as detected by licenseclassifier.
type License struct {
    Name    string
    Type    golicenses.Type
    Confidence float64
    Source  string
    Overrides string
}

// LicenseFile represents a license file, with its name, path, and relevance score.
type LicenseFile struct {
    Name string
    Path string
    Weight float64
}

// LicenseDiff represents a difference between the detected license and the expected
// license.
type LicenseDiff struct {
    Path string
    Is string
    Should string
    Override string
}

```

```

NewType golicenses.Type
}

// Identify identifies the license of a file on a filesystem using the licenseclassifier.
func (c *melangeClassifier) Identify(fs fs.FS, licensePath string) ([]License, error) {
    file, err := fs.Open(licensePath)
    if err != nil {
        return nil, err
    }
    defer file.Close()

    matches, err := c.classifier.MatchFrom(file)
    if err != nil {
        return nil, err
    }

    // Go through all the matches and filter out the ones that are not licenses
    // and also filter out duplicates
    foundLicenseNames := map[string]struct{}{}
    licenses := []License{}
    for _, match := range matches.Matches {
        if match.MatchType != "License" {
            continue
        }

        // Skip duplicate licenses
        if _, ok := foundLicenseNames[match.Name]; ok {
            continue
        }
        foundLicenseNames[match.Name] = struct{}{}

        licenses = append(licenses, License{
            Name:    match.Name,
            Type:    golicenses.LicenseType(match.Name),
            Confidence:
match.Confidence,
            Source:    licensePath,
            Overrides: "",
        })
    }

    // No license found, append a no-assertion entry
    if len(licenses) == 0 {
        licenses = append(licenses, License{
            Name:    "NOASSERTION",
            Confidence: 0.0,
            Source:    licensePath,
        })
    }
}

```

```

}

return licenses, nil
}

// FindLicenseFiles returns a list of license files in a directory, sorted by their relevance score.
func FindLicenseFiles(fs fs.FS) ([]LicenseFile, error) {
    // This file is using regular expressions defined in the regexp.go file
    var licenseFiles []LicenseFile
    err := fs.WalkDir(fs, ".", func(filePath string, info fs.DirEntry, err error) error {
        if err != nil {
            return err
        }
        // Skip directories and non-regular files, like symlinks
        if !info.Type().IsRegular() {
            return nil
        }
        // Let's ignore all files in the melange-out/ directory, as it's not part of the source
        if strings.Contains(filePath, "melange-out") {
            return nil
        }

        is,
        weight := IsLicenseFile(filePath)
        if is {
            // Licenses in the top level directory have a higher weight so that they
            // always appear first
            if filepath.Dir(filePath) == "." {
                weight += 0.5
            }
            licenseFiles = append(licenseFiles, LicenseFile{
                Name: info.Name(),
                Path: filePath,
                Weight: weight,
            })
        }

        return nil
    })
    if err != nil {
        return nil, err
    }

    // Sort the license files by their 'score' (weight)
    // The order isn't necesasrily important, but we want to have the most relevant files first
    sort.SliceStable(licenseFiles, func(i, j int) bool {
        return licenseFiles[i].Weight > licenseFiles[j].Weight
    })
}

```



```

return licenseFiles, nil
}

// IsLicenseFile checks if a file is a license file based on its name.
// Returns true/false if the file is a license file, and the weight value
// associated with the match, as some matches are potentially more relevant.
func IsLicenseFile(filename string) (bool, float64) {
    // Ignore files in these paths

    //
    Packages like Rust embed the semver in certain paths, so replace the segment with `.`
    // rust-1.86.0-src -> rust-src
    re := regexp.MustCompile(`\-\d+\.\d+\.\d+\-`)
    filename = re.ReplaceAllString(filename, "-")

    ignoredPaths := []string{
        ".virtualenv",
        "env",
        "node_modules",
        "rust-src",
        "rustc-src",
        "venv",
    }
    for _, i := range ignoredPaths {
        if slices.Contains(strings.Split(filename, string(filepath.Separator)), i) {
            return false, 0.0
        }
    }

    // normalize to file name only
    filename = filepath.Base(filename)

    filenameExt := filepath.Ext(filename)
    // Check if the file matches any of the license-related regex patterns
    for regex, weight := range filenameRegexes {
        if !regex.MatchString(filename) {
            continue
        }
        // licensee does this check as part of the regex, but in go we don't have
        // the same regex capabilities
        if slices.Contains(ignoredExt, filenameExt) {
            continue
        }
        return true, weight
    }
    return false, 0.0
}

```

```

// CollectLicenseInfo collects
license information from the given filesystem.
func CollectLicenseInfo(ctx context.Context, fsys fs.FS) ([]License, error) {
    log := clog.FromContext(ctx)

    // Find all license-text files
    licenseFiles, err := FindLicenseFiles(fsys)
    if err != nil {
        return nil, fmt.Errorf("finding license files: %w", err)
    }

    if len(licenseFiles) == 0 {
        // No license files detected, no linting performed.
        log.Debug("no license files detected")
        return nil, nil
    }

    classifier, err := NewClassifier()
    if err != nil {
        return nil, fmt.Errorf("creating classifier: %w", err)
    }

    melangeClassifier := classifier.(*melangeClassifier)
    detectedLicenses := []License{}
    for _, lf := range licenseFiles {
        dl, err := melangeClassifier.Identify(fsys, lf.Path)
        if err != nil {
            return nil, fmt.Errorf("identifying license: %w", err)
        }

        log.Debug("detected licenses %v in %s", dl, lf.Path)
        detectedLicenses = append(detectedLicenses, dl...)
    }

    return detectedLicenses, nil
}

// IsLicenseMatchConfident
checks if the license match is confident enough to be considered valid.
func IsLicenseMatchConfident(dl License) bool {
    // This is heuristics, but we want to ignore licenses with a confidence lower than a threshold
    // We'll make this configurable in the future
    return dl.Confidence >= 0.9
}

// LicenseCheck checks the licenses of the files in the given filesystem against the melange configuration.
func LicenseCheck(ctx context.Context, cfg *config.Configuration, fsys fs.FS) ([]License, []LicenseDiff, error) {

```

```

log := clog.FromContext(ctx)
log.Infof("checking license information")

detectedLicenses, err := CollectLicenseInfo(ctx, fsys)
if err != nil {
    return nil, nil, fmt.Errorf("collecting license info: %w", err)
}

if detectedLicenses == nil {
    log.Infof("no license files detected")
    return nil, nil, nil
}

// Print out all the gathered licenses and record low-confidence ones
lowConfidence := []License{}
for _, dl := range detectedLicenses {
    s := ""
    // This is
    heuristics, but we want to ignore licenses with a confidence lower than a threshold
    if !IsLicenseMatchConfident(dl) {
        s = " low-confidence"
        lowConfidence = append(lowConfidence, dl)
    }
    log.Infof(" %s: %s (%f%s) (%s)", dl.Source, dl.Name, dl.Confidence, s, dl.Type)
}

// TODO: Handle low-confidence licenses, possibly by printing out info about those separately!

var diffs []LicenseDiff
if cfg != nil {
    log.Infof("checking gathered license information against the configuration")

    // Let's first turn the melange licensing information into a coherent licensing list, similar to what Identify returns
    // We first start off by splitting license information that has OR and AND into separate license entries
    // Every entry can have multiple AND or ORs
    melangeLicenses := gatherMelangeLicenses(cfg)

    // Now let's check if the detected licenses are in the configuration
    diffs = getLicenseDifferences(detectedLicenses, melangeLicenses)

    // Print out the license differences
    if
    len(diffs) > 0 {
        log.Warnf("detected license differences:")
        for _, diff := range diffs {
            if diff.Is == "" {
                log.Warnf(" %s: %s not found", diff.Path, diff.Should)
            } else if diff.Override != "" {

```

```

    log.Warnf(" %s: requested override from %s to %s, but now detecting as %s", diff.Path, diff.Override, diff.Is,
diff.Should)
    } else {
        log.Warnf(" %s: %s != %s", diff.Path, diff.Should, diff.Is)
    }

    if diff.NewType != "unencumbered" && diff.NewType != "notice" {
        log.Warnf(" NOTE! %s: %s might be a restrictive license, please proceed with caution", diff.Path, diff.Should)
    }
}
log.Warnf("detected license differences, please check the configuration")
} else {
    log.Warnf("no license differences detected")
}
}

if len(lowConfidence) > 0 {
    log.Warnf("following license files could not be confidently assessed:")
    for _, dl := range lowConfidence {
        log.Warnf(" %s: %s (%f) (%s)", dl.Source, dl.Name, dl.Confidence, dl.Type)
    }
    log.Warnf("could
not identify some licenses, please check the configuration")
}

log.Infof("license information check complete")

return detectedLicenses, diffs, nil
}

// gatherMelangeLicenses gathers the licenses from the melange configuration and splits them into separate entries.
func gatherMelangeLicenses(cfg *config.Configuration) []License {
    mls := []License{}
    for _, ml := range cfg.Package.Copyright {
        if strings.Contains(ml.License, " OR ") || strings.Contains(ml.License, " AND ") {
            // Split the license into separate entries using regexp
            sls := regexp.MustCompile(`s+(AND|OR)s+`).Split(ml.License, -1)
            for _, sl := range sls {
                mls = append(mls,
                    License{
                        Name:    sl,
                        Source:  ml.LicensePath,
                        Overrides: ml.DetectionOverride,
                    })
            }
        } else {
            mls = append(mls,
                License{

```

```

    Name:    ml.License,
    Source:  ml.LicensePath,
    Overrides: ml.DetectionOverride,
  })
}
}
return mls
}

// getLicenseDifferences
compares the detected licenses with the melange licenses and returns the differences.
func getLicenseDifferences(detectedLicenses []License, melangeLicenses []License) []LicenseDiff {
  diffs := []LicenseDiff{}
  for _, dl := range detectedLicenses {
    // This is heuristics, but we want to ignore licenses with a confidence lower than a threshold
    if !IsLicenseMatchConfident(dl) {
      continue
    }

    found := false
    for _, ml := range melangeLicenses {
      if dl.Source == ml.Source {
        // Check if the license matches the license path
        if dl.Name == ml.Name {
          found = true
        } else {
          // Check if we consciously know about the difference and just override it
          if ml.Overrides == "" || ml.Overrides != dl.Name {
            // If not, then it is a mismatch: add it to license differences
            diffs = append(diffs, LicenseDiff{
              dl.Source,
              ml.Name,
              dl.Name,
              ml.Overrides,
              dl.Type,
            })
          }
        }
        // We already added the diff, so we can break
        out of the loop
        found = true
        break
      }
    } else if ml.Source == "" {
      // Check if the license matches the license path
      if dl.Name == ml.Name {
        found = true
      }
    }
  }
}

```

```

}

if !found {
    // We didn't find a match, add it to license differences
    diffs = append(diffs, LicenseDiff{
        dl.Source,
        "",
        dl.Name,
        "",
        dl.Type,
    })
}
}
return diffs
}

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package copyright

import (
    "context"
    "fmt"
    "maps"
    "slices"
    "strings"

    "github.com/chainguard-dev/clog"

    "chainguard.dev/melange/pkg/license"
    "chainguard.dev/melange/pkg/renovate"
    "gopkg.in/yaml.v3"
)

// CopyrightConfig contains the configuration data for a copyright update
// renovator.
type CopyrightConfig struct {

```

```

Licenses []license.License
Diffs []license.LicenseDiff
Format string //
"simple" or "flat"
}

// Option sets a config option on a CopyrightConfig.
type Option func(cfg *CopyrightConfig) error

// WithTargetVersion sets the licenses to be used for the
// renovator.
func WithLicenses(licenses []license.License) Option {
return func(cfg *CopyrightConfig) error {
    cfg.Licenses = licenses
    return nil
}
}

// WithLicenses sets the differences to consider for the
// renovator.
func WithDiffs(diffs []license.LicenseDiff) Option {
return func(cfg *CopyrightConfig) error {
    cfg.Diffs = diffs
    return nil
}
}

// WithFormat sets whether the copyright should be populated with a single
// node containing all detected licenses joined together (simple), or with
// multiple nodes, one per license (flat).
func WithFormat(format string) Option {
return func(cfg *CopyrightConfig) error {
    cfg.Format = format
    return nil
}
}

// New returns a renovator which performs a copyright update.
func New(ctx context.Context, opts ...Option) renovate.Renovator {
log := clog.FromContext(ctx)
ccfg
:= CopyrightConfig{}

for _, opt := range opts {
if err := opt(&ccfg); err != nil {
return func(context.Context, *renovate.RenovationContext) error {
return fmt.Errorf("while constructing: %w", err)
}
}
}

```

```

}
}

return func(ctx context.Context, rc *renovate.RenovationContext) error {
    log.Infof("attempting to update copyright")

    // Check if there's any licenses that were properly detected.
    // If not, we probably shouldn't do anything.
    canFix := false
    for _, l := range ccfg.Licenses {
        if license.IsLicenseMatchConfident(l) {
            canFix = true
            break
        }
    }
    if !canFix {
        log.Infof("no confident licenses found to update")
        return nil
    }

    // Also, don't renovate if there is no differences detected.
    if len(ccfg.Diffs) == 0 {
        log.Infof("no actionable license differences detected")
        return nil
    }

    packageNode, err := renovate.NodeFromMapping(rc.Configuration.Root().Content[0], "package")
    if err != nil {
        return err
    }

    copyrightNode,
    err := renovate.NodeFromMapping(packageNode, "copyright")
    if err != nil {
        return err
    }

    // Let's clear out the copyrightNode and then repopulate it with the
    // detected licenses.
    copyrightNode.Content = nil

    // Repopulate the copyrightNode with detected licenses
    if ccfg.Format == "simple" {
        // Make the copyright field a single node with all licenses joined together
        if err = populateSimpleCopyright(ctx, copyrightNode, ccfg.Licenses); err != nil {
            return err
        }
    } else {

```



```

// Use flat license listing (original behavior)
if err = populateFlatCopyright(ctx, copyrightNode, ccfg.Licenses); err != nil {
    return err
}

return nil
}

// populateFlatCopyright populates the copyright node with the detected licenses,
// one entry per license.
func populateFlatCopyright(ctx context.Context, copyrightNode *yaml.Node, licenses []license.License) error {
    log := clog.FromContext(ctx)

    for _, l := range licenses {
        // Skip licenses
        // we don't have full confidence in.
        if !license.IsLicenseMatchConfident(l) {
            log.Infof("skipping unconfident license %s", l.Source)
            continue
        }

        licenseNode := &yaml.Node{
            Kind:    yaml.MappingNode,
            Style:    yaml.FlowStyle,
            Content: []*yaml.Node{},
        }

        licenseNode.Content = append(licenseNode.Content, &yaml.Node{
            Kind:    yaml.ScalarNode,
            Value:   "license",
            Tag:    "!!str",
            Style:   yaml.FlowStyle,
        }, &yaml.Node{
            Kind:    yaml.ScalarNode,
            Value:   l.Name,
            Tag:    "!!str",
            Style:   yaml.FlowStyle,
        })

        licenseNode.Content = append(licenseNode.Content, &yaml.Node{
            Kind:    yaml.ScalarNode,
            Value:   "license-path",
            Tag:    "!!str",
            Style:   yaml.FlowStyle,
        }, &yaml.Node{
            Kind:    yaml.ScalarNode,

```

```

    Value: l.Source,
    Tag: "!!str",
    Style: yaml.FlowStyle,
  })

  copyrightNode.Content = append(copyrightNode.Content, licenseNode)
}

return nil
}

// populateSimpleCopyright populates the copyright field with a single node
// with all detected
// licenses joined together.
func populateSimpleCopyright(ctx context.Context, copyrightNode *yaml.Node, licenses []license.License) error {
  log := clog.FromContext(ctx)

  // Gather all the license names and concatenate them with AND statements
  licenseMap := make(map[string]struct{})
  for _, l := range licenses {
    if !license.IsLicenseMatchConfident(l) {
      log.Infof("skipping unconfident license %s", l.Source)
      continue
    }
    licenseMap[l.Name] = struct{}{}
  }

  if len(licenseMap) == 0 {
    log.Infof("no confident licenses found to populate copyright")
    return nil
  }

  // Join the license names with " AND ", sorting them first for consistency
  ls := slices.Collect(maps.Keys(licenseMap))
  slices.Sort(ls)
  combined := strings.Join(ls, " AND ")

  // Create a single license entry with the combined license string
  licenseNode := &yaml.Node{
    Kind:    yaml.MappingNode,
    Style:   yaml.FlowStyle,
    Content: []*yaml.Node{},
  }

  licenseNode.Content = append(licenseNode.Content, &yaml.Node{
    Kind:
    yaml.ScalarNode,
    Value: "license",

```

```
Tag: "!!str",
Style: yaml.FlowStyle,
}, &yaml.Node{
Kind: yaml.ScalarNode,
Value: combined,
Tag: "!!str",
Style: yaml.FlowStyle,
})
```

```
copyrightNode.Content = append(copyrightNode.Content, licenseNode)
```

```
return nil
}
```

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section 10

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package:
name: nolicense
version: 0.0.1
epoch: 0
description: "this package is missing license information"
copyright:
- license: Not-Applicable

environment:
contents:
repositories:
- <https://packages.wolfi.dev/os>
keyring:
- <https://packages.wolfi.dev/os/wolfi-signing.rsa.pub>
packages:
- busybox

pipeline:
- runs: echo "nothing to do here"
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```
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```

```
package copyright
```

```
import (
    "os"
    "path/filepath"
    "testing"

    "github.com/chainguard-dev/clog/slogtest"

    "chainguard.dev/melange/pkg/license"
    "chainguard.dev/melange/pkg/renovate"
    "github.com/stretchr/testify/assert"
)
```

```
func TestCopyright_update(t *testing.T) {
    dir := t.TempDir()
    ctx := slogtest.Context(t)
```

```
    detectedLicenses := []license.License{
        {
            Name:      "Apache-2.0",
            Source:     "LICENSE",
            Confidence: 1.0,
        },
        {
            Name:      "MIT",
            Source:    "internal/COPYING",
            Confidence: 1.0,
        },
        {
            Name:      "GPL-3.0",
            Source:    "internal/LICENSE",
            Confidence: 0.2,
        },
        {
            Name:      "NOASSERTION",
            Source:    "docs/COPYING",
            Confidence: 0.0,
        },
    }
}
```

```
diffs := []license.LicenseDiff{
    {
        Path: "LICENSE",
```

```

    Is:    "GPL-2.0",
    Should: "Apache-2.0",
  },
}

// Copy the test data file to the temp directory
src := filepath.Join("testdata", "nolicense.yaml")
testFile := filepath.Join(dir, "nolicense.yaml")
input, err := os.ReadFile(src)
assert.NoError(t, err)

err = os.WriteFile(testFile, input, 0o644)
assert.NoError(t, err)

rctx, err := renovate.New(renovate.WithConfig(testFile))
assert.NoError(t, err)

copyrightRenovator := New(ctx, WithLicenses(detectedLicenses), WithDiffs(diffs))

err = rctx.Renovate(slogtest.Context(t), copyrightRenovator)
assert.NoError(t, err)

resultData, err := os.ReadFile(testFile)
assert.NoError(t,
err)
assert.Contains(t, string(resultData), "license: Apache-2.0")
assert.Contains(t, string(resultData), "license: MIT")
assert.NotContains(t, string(resultData), "license: Not-Applicable")
assert.NotContains(t, string(resultData), "license: GPL-3.0")
assert.NotContains(t, string(resultData), "license: NOASSERTION")
}

func TestCopyright_noDiffs(t *testing.T) {
    dir := t.TempDir()
    ctx := slogtest.Context(t)

    detectedLicenses := []license.License{
        {
            Name:    "Invalid",
            Source:  "LICENSE",
            Confidence: 1.0,
        },
    },
}

    diffs := []license.LicenseDiff{}

    // Copy the test data file to the temp directory
    src := filepath.Join("testdata", "nolicense.yaml")

```



```

testFile := filepath.Join(dir, "nolicense.yaml")
input, err := os.ReadFile(src)
assert.NoError(t, err)

err = os.WriteFile(testFile, input, 0o644)
assert.NoError(t, err)

rctx, err := renovate.New(renovate.WithConfig(testFile))
assert.NoError(t, err)

copyrightRenovator := New(ctx, WithLicenses(detectedLicenses),
WithDiffs(diffs))

err = rctx.Renovate(slogtest.Context(t), copyrightRenovator)
assert.NoError(t, err)

resultData, err := os.ReadFile(testFile)
assert.NoError(t, err)

// The diffs is empty, so the renovator should not modify the file
// Let's make sure that's the case by checking that the file still contains the original license
assert.Contains(t, string(resultData), "license: Not-Applicable")
assert.NotContains(t, string(resultData), "license: Invalid")
}

func TestCopyright_updateSimple(t *testing.T) {
dir := t.TempDir()
ctx := slogtest.Context(t)

detectedLicenses := []license.License{
{
Name:    "Apache-2.0",
Source:  "LICENSE",
Confidence: 1.0,
},
{
Name:    "MIT",
Source:  "internal/COPYING",
Confidence: 1.0,
},
{
Name:    "Apache-2.0",
Source:  "vendor/foo/LICENSE",
Confidence: 1.0,
},
{
Name:    "GPL-3.0",
Source:  "internal/LICENSE",

```

```

    Confidence: 0.2,
  },
}

diffs := []license.LicenseDiff{
{
  Path:
    "LICENSE",
  Is:   "GPL-2.0",
  Should: "Apache-2.0",
},
}

// Copy the test data file to the temp directory
src := filepath.Join("testdata", "nolicense.yaml")
testFile := filepath.Join(dir, "nolicense.yaml")
input, err := os.ReadFile(src)
assert.NoError(t, err)

err = os.WriteFile(testFile, input, 0644)
assert.NoError(t, err)

rctx, err := renovate.New(renovate.WithConfig(testFile))
assert.NoError(t, err)

copyrightRenovator := New(ctx, WithLicenses(detectedLicenses), WithDiffs(diffs), WithFormat("simple"))

err = rctx.Renovate(slogtest.Context(t), copyrightRenovator)
assert.NoError(t, err)

resultData, err := os.ReadFile(testFile)
assert.NoError(t, err)

// The copyright field should contain a single license entry with both licenses joined by " AND "
result := string(resultData)
assert.Contains(t, result, "license: Apache-2.0 AND MIT")
assert.NotContains(t, result, "GPL-3.0")
assert.NotContains(t, result, "NOASSERTION")
}

This is not a valid license file.
---
title: "melange license-check"
slug: melange_license-check
url: /docs/md/melange_license-check.md
draft: false
images: []
type: "article"
toc: true

```

melange license-check

Gather and check licensing data

Synopsis

Check a melange source, source tree or APK for license data correctness.

melange license-check file [flags]

Examples

melange license-check vim.yaml

Options

--fix fix license issues in the melange yaml file

--format string license fix strategy format: 'simple' or 'flat' (default "flat")

-h, --help help for license-check

--workdir string path to the working directory, e.g. where the source will be extracted to

Options inherited from parent commands

--log-level string log level (e.g. debug, info, warn, error) (default "INFO")

SEE ALSO

* [melange](/docs/md/melange.md) -

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```

```
package cli
```

```
import (
```

```
    "fmt"
```

```
    "os"
```

```
    "path/filepath"
```

```
    "github.com/spf13/cobra"
```

```
    apkofs "chainguard.dev/apko/pkg/apk/fs"
```

```
    "chainguard.dev/melange/pkg/config"
```

```
    "chainguard.dev/melange/pkg/license"
```

```
    "chainguard.dev/melange/pkg/renovate"
```

```
    "chainguard.dev/melange/pkg/renovate/copyright"
```

```
    "chainguard.dev/melange/pkg/source"
```

```
)
```

```
func licenseCheck() *cobra.Command {
```

```
    var workDir string
```

```
    var fix bool
```

```
    var format
```

```
    string
```

```
    cmd := &cobra.Command{
```

```
        Use: "license-check file",
```

```
        Short: "Gather and check licensing data",
```

```
        Long: `Check a melange source, source tree or APK for license data correctness.`,
```

```
        Example: `melange license-check vim.yaml`,
```

```
        Args: cobra.MinimumNArgs(1),
```

```
        RunE: func(cmd *cobra.Command, args []string) error {
```

```
            ctx := cmd.Context()
```

```
            if workDir == "" {
```

```
                // Create a temporary directory for the workdir if no workdir given
```

```
                tmpDir, err := os.MkdirTemp("", "melange-license-check")
```

```
                if err != nil {
```

```
                    return fmt.Errorf("failed to create temporary directory: %w", err)
```

```
                }
```

```
                defer os.RemoveAll(tmpDir)
```

```
                workDir = tmpDir
```

```
            }
```

```
            sourceDir := args[0]
```

```
            var cfg *config.Configuration
```

```
            var err error
```

```
            e := filepath.Ext(args[0])
```

```

if e == ".apk" || e == ".yaml" {
    cfg, err = source.FetchSourceFromMelange(ctx, args[0], workDir)
    if err != nil {
        return err
    }
    sourceDir = workDir
}

// Turn sourceDir to an absolute path
sourceDir,
err = filepath.Abs(sourceDir)
if err != nil {
    return fmt.Errorf("failed to get absolute path for source directory: %w", err)
}
sourceFS := apkofs.DirFS(ctx, sourceDir)
detectedLicenses, diffs, err := license.LicenseCheck(ctx, cfg, sourceFS)
if err != nil {
    return err
}

if fix {
    // Attempt to fix the license issues in the melange yaml file
    var rc *renovate.Context
    rc, err = renovate.New(renovate.WithConfig(args[0]))
    if err != nil {
        return err
    }

    copyrightRenovator := copyright.New(
        ctx,
        copyright.WithLicenses(detectedLicenses),
        copyright.WithDiffs(diffs),
        copyright.WithFormat(format),
    )
    err = rc.Renovate(cmd.Context(), copyrightRenovator)
}

return err
},
}

cmd.Flags().StringVar(&workDir, "workdir", "", "path to the working directory, e.g. where the source will be
extracted to")
cmd.Flags().BoolVar(&fix, "fix", false, "fix license issues in the melange yaml file")
cmd.Flags().StringVar(&format,
"format", "flat", "license fix strategy format: 'simple' or 'flat'")

return cmd

```

}

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Version 2, June 1991

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package license

import (

"context"

"io/fs"

"log/slog"

"os"

"path/filepath"

"strings"

"testing"

apkofs "chainguard.dev/apko/pkg/apk/fs"

"chainguard.dev/melange/pkg/config"

"github.com/chainguard-dev/clog"

)

func TestFindLicenseFiles(t *testing.T) {

// Create a temporary directory for testing

tmpDir := t.TempDir()

// Create test files

testFiles := []string{

"LICENSE",

"LICENSE.md",

"COPYING",

"COPYING.txt",

"random.txt",

"LICENSE-MIT.md",

"README.md",

"LICENSE-APACHE",

"LICENSE.gemspec",

"COPYRIGHT",

"MIT-COPYING",

```

"copyme",
"COPY",
"LICENSE.txt",
}

for
_, name := range testFiles {
    filePath := filepath.Join(tmpDir, name)
    fp, err := os.OpenFile(filePath, os.O_RDONLY|os.O_CREATE, 0o666)
    if err != nil {
        t.Fatalf("Failed to create test file %s: %v", name, err)
    }
    fp.Close()
}

tmpFS := apkofs.DirFS(t.Context(), tmpDir)

// Call function under test
licenseFiles, err := FindLicenseFiles(tmpFS)
if err != nil {
    t.Fatalf("FindLicenseFiles returned an error: %v", err)
}

for _, file := range licenseFiles {
    t.Logf("Found license file: %s", file.Name)
}

// Verify the results
// The order of the expected licenses is important, but not strictly checked
expectedFiles := []string{
    "LICENSE",
    "LICENSE.md",
    "LICENSE.txt",
    "COPYING",
    "COPYRIGHT",
    "COPYING.txt",
    "LICENSE-APACHE",
    "LICENSE-MIT.md",
    "MIT-COPYING",
}
if
len(licenseFiles) != len(expectedFiles) {
    t.Errorf("Expected %d license files, got %d", len(expectedFiles), len(licenseFiles))
}

var found bool
for _, expected := range expectedFiles {
    found = false

```

```

for _, l := range licenseFiles {
    if l.Name == expected {
        found = true
        break
    }
}
if !found {
    t.Errorf("Expected license file %s not found", expected)
}
}

testInoreFiles := []string{
    "node_modules/LICENSE",
    "node_modules/LICENSE.md",
    "env/COPYING",
    "env/COPYING.txt",
    "env/random.txt",
    "env/LICENSE-MIT.md",
    "env/README.md",
    "env/LICENSE-APACHE",
    ".virtualenv/LICENSE.gemspec",
    ".virtualenv/COPYRIGHT",
    ".virtualenv/MIT-COPYING",
    "node_modules/copyme",
    "node_modules/COPY",
    "node_modules/LICENSE.txt",
    "rust-src-1.86.0/rust-src/foo/LICENSE-MIT",
    "rustc-src-1.86.0/rust-src/foo/LICENSE-MIT",
}

tmpDir = t.TempDir()
for _, name := range testInoreFiles {
    filePath := filepath.Join(tmpDir, name)
    err := os.MkdirAll(filepath.Join(tmpDir,
    filePath.Dir(name)), os.ModePerm)
    if err != nil {
        t.Fatalf("Failed to create test file %s: %v", name, err)
    }
    fp, err := os.OpenFile(filePath, os.O_RDONLY|os.O_CREATE, 0o666)
    if err != nil {
        t.Fatalf("Failed to create test file %s: %v", name, err)
    }
    fp.Close()
}

tmpFS = apkofs.DirFS(t.Context(), tmpDir)

// Call function under test

```



```

licenseFiles, err = FindLicenseFiles(tmpFS)
if len(licenseFiles) > 0 {
    t.Fatalf("Failed to test ignored files")
}
if err != nil {
    t.Fatalf("FindLicenseFiles returned an error: %v", err)
}
}

func TestIdentify(t *testing.T) {
    classifier, err := NewClassifier()
    if err != nil {
        t.Fatalf("Failed to create classifier: %v", err)
    }

    melangeClassifier := classifier.(*melangeClassifier)

    expectedLicenses := map[string]string{
        "LICENSE-APACHE":    "Apache-2.0",
        "LICENSE-BSD":       "BSD-3-Clause",
        "LICENSE-BSD-modified": "BSD-3-Clause",
        "LICENSE-GPLv2":     "GPL-2.0",
        "LICENSE-GPLv3":     "GPL-3.0",
        "COPYRIGHT":
            "NOASSERTION",
    }

    testDataDir := "testdata"
    dataFS := apkofs.DirFS(t.Context(), testDataDir)
    err = fs.WalkDir(dataFS, ".", func(path string, info fs.DirEntry, err error) error {
        if err != nil {
            t.Errorf("Error walking through testdata directory: %v", err)
            return err
        }
        if !info.IsDir() {
            filePath := path

            // Call function under test
            licenses, err := melangeClassifier.Identify(dataFS, filePath)
            if err != nil {
                t.Errorf("Identify returned an error for file %s: %v", filePath, err)
                return nil
            }

            t.Logf("Identified licenses for file %s: %v", filePath, licenses)

            // These licenses are mostly-100% matched, so only one license result should be expected
            if len(licenses) != 1 {

```

```

    t.Errorf("Expected one license detected for file %s, got %d", filePath, len(licenses))
}

expectedLicense, ok := expectedLicenses[info.Name()]
if ok {
    if licenses[0].Name != expectedLicense {
        t.Errorf("Expected license %s
for file %s, got %s", expectedLicense, filePath, licenses[0].Name)
    }
} else {
    t.Logf("No expected license found for file %s", info.Name())
}
}
return nil
})
if err != nil {
    t.Fatalf("Failed to walk through testdata directory: %v", err)
}
}

func TestLicenseCheck(t *testing.T) {
    // Create a mock configuration
    cfg := &config.Configuration{
        Package: config.Package{
            Copyright: []config.Copyright{
                {License: "Apache-2.0", LicensePath: "LICENSE-APACHE"},
                {License: "MIT", LicensePath: "LICENSE-BSD"},
                {License: "GPL-2.0 OR GPL-3.0"},
            },
        },
    }

    testDataDir := "testdata"
    dataFS := apkofs.DirFS(t.Context(), testDataDir)

    // Create a buffer to capture log output
    var logBuf strings.Builder
    handler := slog.NewTextHandler(&logBuf, &slog.HandlerOptions{
        Level: slog.LevelInfo,
    })
    logger := clog.New(handler)
    ctx := clog.WithLogger(context.Background(), logger)

    // Call function under test
    _, diffs, err := LicenseCheck(ctx, cfg, dataFS)
    if err != nil {
        t.Fatalf("LicenseCheck returned an error: %v", err)
    }
}

```

```

}

// Expected differences
expectedDiffs := []LicenseDiff{
{
    Path: "LICENSE-BSD",
    Is: "MIT",
    Should: "BSD-3-Clause",
},
}

// Verify the results
if len(diffs) != len(expectedDiffs) {
    t.Errorf("Expected %d license differences, got %d", len(expectedDiffs), len(diffs))
}

for _, expected := range expectedDiffs {
    found := false
    for _, diff := range diffs {
        if diff.Path == expected.Path && diff.Is == expected.Is && diff.Should == expected.Should {
            found = true
            break
        }
    }
    if !found {
        t.Errorf("Expected license difference %+v not found", expected)
    }
}

// Now also check the log output and make sure that "low-confidence" is present only for the low-confidence
// licenses: LICENSE-BSD-modified and COPYRIGHT (the latter is not a valid license)
found := false
lines := strings.Split(logBuf.String(), "\n")
for _, line := range lines {
    if strings.Contains(line, "low-confidence")
    {
        // Check if the line contains one of the expected licenses
        if !strings.Contains(line, "LICENSE-BSD-modified") && !strings.Contains(line, "COPYRIGHT") {
            t.Errorf("Unexpected log line with 'low-confidence': %s", line)
        }
        found = true
    }
}
if !found {
    t.Errorf("Expected log line with 'low-confidence' not found")
}
}

```

```

func TestLicenseCheck_withOverrides(t *testing.T) {
    // Create a mock configuration with detection overrides
    // There is one correct override (BSD -> MIT) and one incorrect, where we say we expected MIT and overriding it
    // to GPL-3.0
    cfg := &config.Configuration{
        Package: config.Package{
            Copyright: []config.Copyright{
                {License: "Apache-2.0", LicensePath: "LICENSE-APACHE"},
                {License: "MIT", LicensePath: "LICENSE-BSD", DetectionOverride: "BSD-3-Clause"},
                {License: "GPL-3.0", LicensePath: "LICENSE-GPLv2", DetectionOverride: "MIT"},
                {License: "GPL-3.0", LicensePath: "LICENSE-GPLv3"},
            },
        },
    }

    testDataDir := "testdata"
    dataFS :=
    apkofs.DirFS(t.Context(), testDataDir)

    // Call function under test
    _, diffs, err := LicenseCheck(context.Background(), cfg, dataFS)
    if err != nil {
        t.Fatalf("LicenseCheck returned an error: %v", err)
    }

    // Expected differences
    expectedDiffs := []LicenseDiff{
        {
            Path:    "LICENSE-GPLv2",
            Is:      "GPL-3.0",
            Should:  "GPL-2.0",
            Override: "MIT",
        },
    }

    // Verify the results
    if len(diffs) != len(expectedDiffs) {
        t.Errorf("Expected %d license differences, got %d", len(expectedDiffs), len(diffs))
    }

    for _, expected := range expectedDiffs {
        found := false
        for _, diff := range diffs {
            if diff.Path == expected.Path && diff.Is == expected.Is && diff.Should == expected.Should && diff.Override ==
expected.Override {
                found = true
                break
            }
        }
    }
}

```

```

}
if !found {
    t.Errorf("Expected license difference %+v not found", expected)
}
}
}
}

```

1.120 crossbeam-epoch 0.9.18

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1.121 pyo3 0.26.0

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1.122 lazy_static 1.5.0

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1.124 rayon-core 1.12.1

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1.127 pyo3-ffi 0.26.0

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1.128 base-64 0.22.1

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1.129 rayon 1.10.0

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1.130 once_cell 1.21.3

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1.132 gdbm 1.26-r1

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1.133 expat 2.7.3-r0

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1.134 memchr 2.7.6

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1.135 pem 3.0.5

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1.136 num-integer 0.1.46

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1.137 asn1 0.22.0

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1.138 bzip2 1.0.8-r21

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bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.139 smallvec 1.15.1

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1.140 openssl-sys 0.9.110

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1.141 bstr 1.12.0

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1.142 walkdir 2.5.0

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1.144 hex 0.4.3

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1.146 openssl-provider-fips-3.1.2 3.1.2-r3

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1.148 futures-lite 2.6.0

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1.149 tracing-log 0.2.0

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1.150 dashmap 6.1.0

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1.152 futures-core 0.3.31

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1.153 encoding_rs_io 0.1.7

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1.161 configparser 3.1.0

1.161.1 Available under license :

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 <https://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 <https://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 <https://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	Derived from	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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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.162 http 1.3.1

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1.164 base-64 0.21.7

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1.165 smawk 0.3.2

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1.166 async-broadcast 0.7.2

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1.167 event-listener 5.4.0

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1.168 parking_lot_core 0.9.11

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1.170 bzip2-sys 0.1.13+1.0.8

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

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1.171 arcstr 1.2.0

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```
//@ run-pass
```

```
#![allow(unused_variables)]
```

```
pub fn main() {
    let x = &[1, 2, 3, 4, 5];
    let x: &[isize] = &[1, 2, 3, 4, 5];
    if !x.is_empty() {
        let el = match x {
            &[1, ref tail @ ..] => &tail[0],
            _ => unreachable!()
        };
        println!("{}", *el);
    }
}
```

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- #3097

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- #3099

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-

#3100

([archive](http://web.archive.org/web/20181005184901/https://github.com/rust-lang-nursery/rust-clippy/issues/3100),
[screenshot](https://user-images.githubusercontent.com/1617736/46573512-5c1dff00-c94b-11e8-8a13-7d758ed3563d.png))

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- @EpocSquadron has [made minor text contributions to the README](<https://github.com/rust-lang/rust-clippy/commits?author=EpocSquadron>) which have since been overwritten, and doesn't count
- @JayKickliter [agreed to the relicense on their pull request](<https://github.com/rust-lang/rust-clippy/pull/3195#issuecomment-423781016>) ([archive](<https://web.archive.org/web/20181005190730/https://github.com/rust-lang/rust-clippy/pull/3195>), [screenshot](<https://user-images.githubusercontent.com/1617736/46573514-5cb69580-c94b-11e8-8ffb-05a5bd02e2cc.png>)
- @sanmai-NL's [contribution](<https://github.com/rust-lang/rust-clippy/commits?author=sanmai-NL>) is a minor one-word addition which doesn't count for copyright assignment
- @zmt00's [contributions](<https://github.com/rust-lang/rust-clippy/commits?author=zmt00>) are minor typo fixes and don't count
- @VKlayd has [nonminor contributions](<https://github.com/rust-lang/rust-clippy/commits?author=VKlayd>) which we rewrote (see below)
- @wartman4404 has [nonminor contributions](<https://github.com/rust-lang/rust-clippy/commits?author=wartman4404>) which we rewrote (see below)

Two of these contributors had non-minor contributions (#2184, #427) requiring a rewrite, carried out in #3251 ([archive](<http://web.archive.org/web/20181005192411/https://github.com/rust-lang-nursery/rust-clippy/pull/3251>), [screenshot](<https://user-images.githubusercontent.com/1617736/46573515-5cb69580-c94b-11e8-86e5-b456452121b2.png>))

First, I (Manishearth) removed the lints they had added. I then documented at a high level what the lints did in #3251, asking for co-maintainers who had not seen the code for the lints to rewrite them. #2814 was rewritten by @phansch, and #427 was rewritten by @oli-obk, who did not recall having previously seen the code they were rewriting.

Since this document was written, @JayKickliter and @sanmai-ML added their consent in #3230 ([archive](<http://web.archive.org/web/20181006171926/https://github.com/rust-lang-nursery/rust-clippy/issues/3230>))

use std::collections::BTreeMap;

use std::path::{Path, PathBuf};

```

use anyhow::Error;
use rinja::Template;

mod cargo_metadata;

/// The entry point to the binary.
///
/// You should probably let `bootstrap` execute this program instead of running
/// it directly. It assumes that the current working directory is the root of a
/// Rust git repository checkout, and constructs a bunch of relative paths based
/// on that assumption.
///
/// Run `x.py run generate-copyright`
fn main() -> Result<(), Error> {
    let dest_file = env_path("DEST")?;
    let libstd_dest_file = env_path("DEST_LIBSTD")?;
    let src_dir = env_path("SRC_DIR")?;
    let vendor_dir = env_path("VENDOR_DIR")?;
    let cargo = env_path("CARGO")?;
    let license_metadata = env_path("LICENSE_METADATA")?;

    let cargo_manifests = env_string("CARGO_MANIFESTS")?
        .split(",")
        .map(|manifest| manifest.into())
        .collect:::<Vec<PathBuf>>();
    let library_manifests = cargo_manifests
        .iter()

    .filter(|path| {
        if let Ok(stripped) = path.strip_prefix(&src_dir) {
            stripped.starts_with("library")
        } else {
            panic!("manifest {path:?} not relative to source dir {src_dir:?}");
        }
    })
    .cloned()
    .collect:::<Vec<_>>();

    // Scan Cargo dependencies
    let mut collected_cargo_metadata =
        cargo_metadata::get_metadata_and_notices(&cargo, &vendor_dir, &src_dir, &cargo_manifests)?;

    let library_collected_cargo_metadata = cargo_metadata::get_metadata_and_notices(
        &cargo,
        &vendor_dir,
        &src_dir,
        &library_manifests,
    )

```

```

)?;

for (key, value) in collected_cargo_metadata.iter_mut() {
    value.is_in_libstd = Some(library_collected_cargo_metadata.contains_key(key));
}

// Load JSON output by reuse
let collected_tree_metadata: Metadata =
    serde_json::from_slice(&std::fs::read(&license_metadata)?)?;

// Find libstd sub-set
let library_collected_tree_metadata
= Metadata {
    files: collected_tree_metadata
        .files
        .trim_clone(&src_dir.join("library"), &src_dir)
        .unwrap(),
};

// Output main file
let template = CopyrightTemplate {
    in_tree: collected_tree_metadata.files,
    dependencies: collected_cargo_metadata,
};
let output = template.render()?;
// Git stores text files with \n, but this file may contain \r\n in files
// copied from dependencies. Normalise them before we write them out, for
// consistency.
let output = output.replace("\r\n", "\n");
std::fs::write(&dest_file, output)?;

// Output libstd subset file
let template = LibraryCopyrightTemplate {
    in_tree: library_collected_tree_metadata.files,
    dependencies: library_collected_cargo_metadata,
};
let output = template.render()?;
// Git stores text files with \n, but this file may contain \r\n in files
// copied from dependencies.
Normalise them before we write them out, for
// consistency.
let output = output.replace("\r\n", "\n");
std::fs::write(&libstd_dest_file, output)?;

Ok(())
}

/// The HTML template for the toolchain copyright file

```

```

#[derive(Template)]
#[template(path = "COPYRIGHT.html")]
struct CopyrightTemplate {
    in_tree: Node,
    dependencies: BTreeMap<cargo_metadata::Package, cargo_metadata::PackageMetadata>,
}

/// The HTML template for the library copyright file
#[derive(Template)]
#[template(path = "COPYRIGHT-library.html")]
struct LibraryCopyrightTemplate {
    in_tree: Node,
    dependencies: BTreeMap<cargo_metadata::Package, cargo_metadata::PackageMetadata>,
}

/// Describes a tree of metadata for our filesystem tree
///
/// Must match the JSON emitted by the `CollectLicenseMetadata` bootstrap tool.
#[derive(serde::Deserialize, Clone, Debug, PartialEq, Eq)]
struct Metadata {
    files: Node,
}

/// Describes one node in our metadata tree
#[derive(serde::Deserialize, rinja::Template, Clone, Debug, PartialEq, Eq)]
#[serde(rename_all = "kebab-case", tag = "type")]
#[template(path = "Node.html")]
pub(crate) enum Node {
    Root { children: Vec<Node> },
    Directory { name: String, children: Vec<Node>, license: Option<License> },
    File { name: String, license: License },
    Group { files: Vec<String>, directories: Vec<String>, license: License },
}

impl Node {
    /// Clone, this node, but only if the path to the item is within the match path
    fn trim_clone(&self, match_path: &Path, parent_path: &Path) -> Option<Node> {
        match self {
            Node::Root { children } => {
                let mut filtered_children = Vec::new();
                for node in children {
                    if let Some(child_node) = node.trim_clone(match_path, parent_path) {
                        filtered_children.push(child_node);
                    }
                }
                if filtered_children.is_empty() {
                    None
                }
            }
        }
    }
}

```

```

} else {
    Some(Node::Root { children: filtered_children })
}
}
Node::Directory { name, children, license } => {
    let child_name = parent_path.join(name);
    if !(child_name.starts_with(match_path) || match_path.starts_with(&child_name)) {
        return None;
    }
    let mut filtered_children = Vec::new();
    for node in children {
        if let Some(child_node) = node.trim_clone(match_path, &child_name) {
            filtered_children.push(child_node);
        }
    }
    Some(Node::Directory {
        name: name.clone(),
        children: filtered_children,
        license: license.clone(),
    })
}
Node::File { name, license } => {
    let child_name = parent_path.join(name);
    if !(child_name.starts_with(match_path)
|| match_path.starts_with(&child_name)) {
        return None;
    }
    Some(Node::File { name: name.clone(), license: license.clone() })
}
Node::Group { files, directories, license } => {
    let mut filtered_child_files = Vec::new();
    for child in files {
        let child_name = parent_path.join(child);
        if child_name.starts_with(match_path) || match_path.starts_with(&child_name) {
            filtered_child_files.push(child.clone());
        }
    }
    let mut filtered_child_dirs = Vec::new();
    for child in directories {
        let child_name = parent_path.join(child);
        if child_name.starts_with(match_path) || match_path.starts_with(&child_name) {
            filtered_child_dirs.push(child.clone());
        }
    }
    Some(Node::Group {
        files: filtered_child_files,

```



```

        directories: filtered_child_dirs,
        license: license.clone(),
    })
}
}
}
}

/// A License has an SPDX license name and a list of copyright holders.
#[derive(serde::Deserialize, Clone, Debug, PartialEq, Eq)]
struct License {
    spdx: String,
    copyright: Vec<String>,
}

/// Grab an environment variable as string, or fail nicely.
fn env_string(var: &str) -> Result<String, Error> {
    match std::env::var(var) {
        Ok(var) => Ok(var),
        Err(std::env::VarError::NotUnicode(_)) => {
            anyhow::bail!("environment variable {var} is not utf-8")
        }
        Err(std::env::VarError::NotPresent) => anyhow::bail!("missing environment variable {var}"),
    }
}

/// Grab an environment variable as a PathBuf, or fail nicely.
fn env_path(var: &str) -> Result<PathBuf, Error> {
    if let Some(var) = std::env::var_os(var)
    {
        Ok(var.into())
    } else {
        anyhow::bail!("missing environment variable {var}")
    }
}

// REUSE-IgnoreStart

```

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```
// test for #112824 ICE type mismatching when copying!
```

```
pub struct Opcode(pub u8);
```

```
pub struct Opcode2(&'a S);
```

```
//~^ ERROR use of undeclared lifetime name ``a`
```

```
//~^^ ERROR cannot find type `S` in this scope
```

```
impl Opcode2 {
```

```
    pub const OP2: Opcode2 = Opcode2(Opcode(0x1));
```

```
}
```

```
pub fn example2(msg_type: Opcode2) -> impl FnMut(&[u8]) {
```

```
    move |i| match msg_type {
```

```
        Opcode2::OP2 => unimplemented!(), // ok, `const` already emitted an error
```

```
    }
```

```
}
```

```
pub fn main() {}
```

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Version 2.0, January 2004

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```
use std::collections::HashMap;
```

```
const COPYRIGHT_PREFIXES: &[&str] = &["SPDX-FileCopyrightText:", "Copyright", "(c)", "(C)", ""];
```

```
pub(crate) struct LicensesInterner {  
    by_id: Vec<License>,  
    by_struct: HashMap<License, usize>,  
}
```

```
impl LicensesInterner {  
    pub(crate) fn new() -> Self {
```

```

    LicensesIntern { by_id: Vec::new(), by_struct: HashMap::new() }
}

pub(crate) fn intern(&mut self, mut license: License) -> LicenseId {
    license.simplify();
    if let Some(id) = self.by_struct.get(&license) {
        LicenseId(*id)
    } else {
        let id = self.by_id.len();
        self.by_id.push(license.clone());
        self.by_struct.insert(license, id);
        LicenseId(id)
    }
}

pub(crate) fn resolve(&self, id: LicenseId) -> &License {
    &self.by_id[id.0]
}

#[derive(Debug, Clone, Copy, PartialEq, Eq, PartialOrd, Ord, serde::Serialize)]
#[serde(transparent)]
pub(crate) struct LicenseId(usize);

#[derive(Clone,
Hash, PartialEq, Eq, serde::Serialize)]
pub(crate) struct License {
    pub(crate) spdx: String,
    pub(crate) copyright: Vec<String>,
}

impl License {
    fn simplify(&mut self) {
        self.remove_copyright_prefixes();
        self.remove_trailing_dots();
        self.copyright.sort();
        self.copyright.dedup();
    }

    fn remove_copyright_prefixes(&mut self) {
        for copyright in &mut self.copyright {
            let mut stripped = copyright.trim();
            let mut previous_stripped;
            loop {
                previous_stripped = stripped;
                for pattern in COPYRIGHT_PREFIXES {
                    stripped = stripped.trim_start_matches(pattern).trim_start();
                }
            }
        }
    }
}

```

```

        if stripped == previous_stripped {
            break;
        }
    }
    *copyright = stripped.into();
}
}

fn remove_trailing_dots(&mut self) {
    for copyright in &mut self.copyright {

        if copyright.ends_with('.') {
            *copyright = copyright.trim_end_matches('.').to_string();
        }
    }
}
}

```

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```

```
//! Gets metadata about a workspace from Cargo
```

```
use std::collections::BTreeMap;
```

```
use std::ffi::OsStr;
```

```
use std::path::{Path, PathBuf};
```

```

/// Describes how this module can fail
#[derive(Debug, thiserror::Error)]
pub enum Error {
    #[error("I/O Error: {0:?}")]
    Io(#[from] std::io::Error),
    #[error("Failed get output from cargo-metadata: {0:?}")]
    GettingMetadata(#[from] cargo_metadata::Error),
    #[error("Bad path {0:?} whilst scraping files")]
    Scraping(PathBuf),
}

/// Uniquely describes a package on crates.io
#[derive(Debug, Clone, PartialEq, Eq, PartialOrd, Ord)]
pub struct Package {
    /// The name of the package
    pub name: String,
    /// The version number
    pub version: String,
}

/// Extra data about a package
#[derive(Debug, Clone, PartialEq, Eq, PartialOrd, Ord)]
pub struct PackageMetadata {
    /// The license it is under
    pub license: String,
    /// The list of authors from the package metadata
    pub authors: Vec<String>,
    /// A list of important files
    from the package, with their contents.
    ///
    /// This includes *COPYRIGHT*, *NOTICE*, *AUTHOR*, *LICENSE*, and *LICENCE* files, case-
    insensitive.
    pub notices: BTreeMap<String, String>,
    /// If this is true, this dep is in the Rust Standard Library
    pub is_in_libstd: Option<bool>,
}

/// Use `cargo metadata` to get a list of dependencies and their license data. License files will
/// also be pulled from the vendor path (generated by bootstrap).
///
/// Any dependency with a path beginning with `root_path` is ignored, as we assume `reuse` has
/// covered it already.
pub fn get_metadata_and_notices(
    cargo: &Path,
    vendor_path: &Path,
    root_path: &Path,
    manifest_paths: &[PathBuf],
) -> Result<BTreeMap<Package, PackageMetadata>, Error> {

```



```

let mut output = get_metadata(cargo, root_path, manifest_paths)?;

// Now for each dependency we found, go and grab any important looking files
for (package, metadata) in output.iter_mut() {
    load_important_files(package,
metadata, &vendor_path)?;
}

Ok(output)
}

/// Use `cargo metadata` to get a list of dependencies and their license data.
///
/// Any dependency with a path beginning with `root_path` is ignored, as we
/// assume `reuse` has covered it already.
pub fn get_metadata(
    cargo: &Path,
    root_path: &Path,
    manifest_paths: &[PathBuf],
) -> Result<BTreeMap<Package, PackageMetadata>, Error> {
    let mut output = BTreeMap::new();
    // Look at the metadata for each manifest
    for manifest_path in manifest_paths {
        if manifest_path.file_name() != Some(OsStr::new("Cargo.toml")) {
            panic!("cargo_manifest::get requires a path to a Cargo.toml file");
        }
        let metadata = cargo_metadata::MetadataCommand::new()
            .cargo_path(cargo)
            .env("RUSTC_BOOTSTRAP", "1")
            .manifest_path(manifest_path)
            .exec()?;
        for package in metadata.packages {
            let manifest_path = package.manifest_path.as_path();
            if manifest_path.starts_with(root_path) {
                // it's an in-tree dependency and reuse covers it
                continue;
            }
            // otherwise it's an out-of-tree dependency
            let package_id = Package { name: package.name, version: package.version.to_string() };
            output.insert(
                package_id,
                PackageMetadata {
                    license: package.license.unwrap_or_else(|| String::from("Unspecified")),
                    authors: package.authors,
                    notices: BTreeMap::new(),
                    is_in_libstd: None,
                },
            );
        }
    }
}

```

```

    }
}

Ok(output)
}

/// Add important files off disk into this dependency.
///
/// Maybe one-day Cargo.toml will contain enough information that we don't need
/// to do this manual scraping.
fn load_important_files(
    package: &Package,
    dep: &mut PackageMetadata,
    vendor_root: &Path,
) -> Result<(),
Error> {
    let name_version = format!("{}", package.name, package.version);
    println!("Scraping notices for {}...", name_version);
    let dep_vendor_path = vendor_root.join(name_version);
    for entry in std::fs::read_dir(dep_vendor_path)? {
        let entry = entry?;
        let metadata = entry.metadata()?;
        let path = entry.path();
        let Some(filename) = path.file_name() else {
            return Err(Error::Scraping(path));
        };
        let lc_filename = filename.to_ascii_lowercase();
        let lc_filename_str = lc_filename.to_string_lossy();
        let mut keep = false;
        for m in ["copyright", "licence", "license", "author", "notice"] {
            if lc_filename_str.contains(m) {
                keep = true;
                break;
            }
        }
        if keep {
            if metadata.is_dir() {
                for inner_entry in std::fs::read_dir(entry.path())? {
                    let inner_entry = inner_entry?;

                    if inner_entry.metadata()?.is_file() {
                        let inner_filename = inner_entry.file_name();
                        let inner_filename_str = inner_filename.to_string_lossy();
                        let qualified_filename =
                            format!("{}", lc_filename_str, inner_filename_str);
                        println!("Scraping {}", qualified_filename);
                        dep.notices.insert(
                            qualified_filename.to_string(),

```

```

        std::fs::read_to_string(inner_entry.path())?,
    );
    }
}
} else if metadata.is_file() {
    let filename = filename.to_string_lossy();
    println!("Scraping {}", filename);
    dep.notices.insert(filename.to_string(), std::fs::read_to_string(path)?);
}
}
}
Ok()
}

```

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Version 2.0, January 2004

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```
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```

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            "2016-2017 Erik Stromdahl <erik.stromdahl@gmail.com>"
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      "The Rust Project Developers (see https://thanks.rust-lang.org)"
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      "The Rust Project Developers (see https://thanks.rust-lang.org)"
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}
mod licenses;
mod path_tree;
mod reuse;

use std::path::PathBuf;

use anyhow::{Context, Error};

use crate::licenses::LicensesInterner;

/// The entry point to the binary.
///
/// You should probably let `bootstrap` execute this program instead of running it directly.
///
/// * Run `x.py run collect-license-metadata` to re-regenerate the file.
/// * Run `x.py test collect-license-metadata` to check if the file you have is correct.
fn main() -> Result<(), Error> {
    let reuse_exe: PathBuf = std::env::var_os("REUSE_EXE").expect("Missing REUSE_EXE").into();
    let dest: PathBuf = std::env::var_os("DEST").expect("Missing DEST").into();
    let only_check = std::env::var_os("ONLY_CHECK").is_some();

    let mut interner = LicensesInterner::new();
    let paths = crate::reuse::collect(&reuse_exe, &mut interner)?;

    let mut tree = crate::path_tree::build(paths);
    tree.simplify();

    let output = serde_json::json!({
        "files": crate::path_tree::expand_interned_licenses(tree, &interner)
    });

    if only_check {
        println!("loading existing license information");
        let existing = std::fs::read_to_string(&dest).with_context(|| {
            format!("Failed to read existing license JSON at {}", dest.display())
        })?;
        let existing_json: serde_json::Value =

```

```

        serde_json::from_str(&existing).with_context(|| {
            format!("Failed to read existing license JSON at {}", dest.display())
        })?;
    if existing_json != output {
        eprintln!("The existing {} file is out of date.", dest.display());
        eprintln!("Run ./x run collect-license-metadata to update it.");
        anyhow::bail!("The existing {} file doesn't match what REUSE reports.", dest.display());
    }
    println!("license information matches");
} else {
    if let Some(parent) = dest.parent() {
        std::fs::create_dir_all(parent)?;
    }
    std::fs::write(&dest, &serde_json::to_vec_pretty(&output)?)?;
    println!("license information written to {}", dest.display());
}

Ok(())
}

```

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[package]

name = "collect-license-metadata"

version = "0.1.0"

edition = "2021"

description = "Runs the reuse tool and caches the output, so rust toolchain devs don't need to have reuse installed"

license = "MIT OR Apache-2.0"

[dependencies]

anyhow = "1.0.65"

serde = { version = "1.0.147", features = ["derive"] }

serde_json = "1.0.85"

spdx-rs = "0.5.1"

//! Tools like REUSE output per-file licensing information, but we need to condense it in the

//! minimum amount of data that still represents the same licensing metadata. This module is

//! responsible for that, by turning the list of paths into a tree and executing simplification

//! passes over the tree to remove redundant information.

use std::collections::BTreeMap;

use std::path::{Path, PathBuf};

use crate::licenses::{License, LicenseId, LicensesInterner};

#[derive(serde::Serialize)]

#[serde(rename_all = "kebab-case", tag = "type")]

pub(crate) enum Node<L> {

Root { children: Vec<Node<L>> },

Directory { name: PathBuf, children: Vec<Node<L>>, license: Option<L> },

File { name: PathBuf, license: L },

Group { files: Vec<PathBuf>, directories: Vec<PathBuf>, license: L },

Empty,

}

impl Node<LicenseId> {

pub(crate) fn simplify(&mut self) {

self.merge_directories();

self.collapse_in_licensed_directories();

self.merge_directory_licenses();

self.merge_groups();

self.remove_empty();

}

```

/// Initially, the build() function constructs a list of separate paths from the file
/// system root down to each file, like so:
///
/// ```text
///     ./ compiler/ rustc/ src/ main.rs
///
/// <root> ./ compiler/ rustc/ Cargo.toml
///
///     ./ library/ std/ Cargo.toml
/// ```
///
/// This pass is responsible for turning that into a proper directory tree:
///
/// ```text
///     compiler/ rustc/ src/ main.rs
///
/// <root> ./          Cargo.toml
///
///     library/ std/ Cargo.toml
/// ```
fn merge_directories(&mut self) {
    match self {
        Node::Root { children } | Node::Directory { children, license: None, .. } => {
            let mut directories = BTreeMap::new();

            let mut files = Vec::new();

            for child in children.drain(..) {
                match child {
                    Node::Directory { name, mut children, license: None } => {
                        directories.entry(name).or_insert_with(Vec::new).append(&mut children);
                    }
                    file @ Node::File { .. } => files.push(file),
                    Node::Empty => {},
                    Node::Root { .. } => {
                        panic!("can't have a root inside another element");
                    }
                    Node::Group { .. } => {
                        panic!("Group should not be present at this stage");
                    }
                    Node::Directory { license: Some(_), .. } => {
                        panic!("license should not be set at this stage");
                    }
                }
            }

            children.extend(directories.into_iter()).map(|(name,

```

```

children)| Node::Directory {
    name,
    children,
    license: None,
});
children.append(&mut files);

    for child in &mut *children {
        child.merge_directories();
    }
}
Node::Empty => {}
Node::File { .. } => {}
Node::Group { .. } => {
    panic!("Group should not be present at this stage");
}
Node::Directory { license: Some(_), .. } => {
    panic!("license should not be set at this stage");
}
}
}

/// In our codebase, most files in a directory have the same license as the other files in that
/// same directory, so it's redundant to store licensing metadata for all the files. Instead,
/// we can add a license for a whole directory, and only record the exceptions to a directory
/// licensing
metadata.
///
/// We cannot instead record only the difference to Rust's standard licensing, as the majority
/// of the files in our repository are *not* licensed under Rust's standard licensing due to
/// our inclusion of LLVM.
fn collapse_in_licensed_directories(&mut self) {
    match self {
        Node::Directory { children, license, .. } => {
            for child in &mut *children {
                child.collapse_in_licensed_directories();
            }

            let mut licenses_count = BTreeMap::new();
            for child in &*children {
                let Some(license) = child.license() else { continue };
                *licenses_count.entry(license).or_insert(0) += 1;
            }

            let most_popular_license = licenses_count
                .into_iter()
                .max_by_key(|(license, count)| *count)
                .map(|(license, _)| license);

```

```

        if let Some(most_popular_license)
= most_popular_license {
            children.retain(|child| child.license() != Some(most_popular_license));
            *license = Some(most_popular_license);
        }
    }
    Node::Root { children } => {
        for child in &mut *children {
            child.collapse_in_licensed_directories();
        }
    }
    Node::File { .. } => {}
    Node::Group { .. } => panic!("group should not be present at this stage"),
    Node::Empty => {}
}
}

/// Reduce the depth of the tree by merging subdirectories with the same license as their
/// parent directory into their parent, and adjusting the paths of the children accordingly.
fn merge_directory_licenses(&mut self) {
    match self {
        Node::Root { children } => {
            for child in &mut *children {
                child.merge_directory_licenses();
            }
        }
        Node::Directory { children, license, .. } => {
            let mut to_add = Vec::new();
            for child in &mut *children {
                child.merge_directory_licenses();

                let Node::Directory {
                    name: child_name,
                    children: child_children,
                    license: child_license,
                } = child
            else {
                continue;
            };

            if child_license != license {
                continue;
            }
            for mut child_child in child_children.drain(..) {
                match &mut child_child {
                    Node::Root { .. } => {

```

```

        panic!("can't have a root inside another element");
    }
    Node::Group { .. } => {
        panic!("Group
should not be present at this stage");
    }
    Node::Directory { name: child_child_name, .. } => {
        *child_child_name = child_name.join(&child_child_name);
    }
    Node::File { name: child_child_name, .. } => {
        *child_child_name = child_name.join(&child_child_name);
    }
    Node::Empty => {}
}
to_add.push(child_child);
}

    *child = Node::Empty;
}
children.append(&mut to_add);
}
Node::Empty => {}
Node::File { .. } => {}
Node::Group { .. } => panic!("Group should not be present at this stage"),
}
}

```

```

/// This pass groups multiple files in a directory with the same license into a single
/// "Group",
so that the license of all those files can be reported as a group.
///
/// This also merges directories *without exceptions*.
///
/// Crucially this pass runs after collapse_in_licensed_directories, so the most common license
/// will already be marked as the directory's license and won't be turned into a group.
fn merge_groups(&mut self) {
    #[derive(Default)]
    struct Grouped {
        files: Vec<PathBuf>,
        directories: Vec<PathBuf>,
    }
    match self {
        Node::Root { children } | Node::Directory { children, .. } => {
            let mut grouped: BTreeMap<LicenseId, Grouped> = BTreeMap::new();

            for child in &mut *children {
                child.merge_groups();
                match child {

```



```

Node::Directory { name, children, license: Some(license) } => {
  if children.is_empty() {
    grouped

    .entry(*license)
      .or_insert_with(Grouped::default)
      .directories
      .push(name.clone());
    *child = Node::Empty;
  }
}
Node::File { name, license } => {
  grouped
    .entry(*license)
    .or_insert_with(Grouped::default)
    .files
    .push(name.clone());
  *child = Node::Empty;
}
_ => {}
}

for (license, mut grouped) in grouped.into_iter() {
  if grouped.files.len() + grouped.directories.len() <= 1 {
    if let Some(name) = grouped.files.pop() {

      children.push(Node::File { license, name });
    } else if let Some(name) = grouped.directories.pop() {
      children.push(Node::Directory {
        name,
        children: Vec::new(),
        license: Some(license),
      });
    }
  } else {
    children.push(Node::Group {
      license,
      files: grouped.files,
      directories: grouped.directories,
    });
  }
}

Node::File { .. } => {}
Node::Group { .. } => panic!("FileGroup should not be present at this stage"),
Node::Empty => {}
}

```

```

}

/// Some nodes were replaced with Node::Empty to mark them for deletion. As the last step, make
/// sure
to remove them from the tree.
fn remove_empty(&mut self) {
    match self {
        Node::Root { children } | Node::Directory { children, .. } => {
            for child in &mut *children {
                child.remove_empty();
            }
            children.retain(|child| !matches!(child, Node::Empty));
        }
        Node::Group { .. } => {}
        Node::File { .. } => {}
        Node::Empty => {}
    }
}

fn license(&self) -> Option<LicenseId> {
    match self {
        Node::Directory { children, license: Some(license), .. } if children.is_empty() => {
            Some(*license)
        }
        Node::File { license, .. } => Some(*license),
        _ => None,
    }
}

pub(crate) fn build(mut input: Vec<(PathBuf, LicenseId)>) -> Node<LicenseId> {
    let mut children = Vec::new();

    // Ensure reproducibility of all future steps.
    input.sort();

    for (path, license) in input
    {
        let mut node = Node::File { name: path.file_name().unwrap().into(), license };
        for component in path.parent().unwrap_or_else(|| Path::new(".")).components().rev() {
            node = Node::Directory {
                name: component.as_os_str().into(),
                children: vec![node],
                license: None,
            };
        }

        children.push(node);
    }
}

```

```

    }

    Node::Root { children }
}

/// Convert a `Node<LicenseId>` into a `Node<&License>`, expanding all interned license IDs with a
/// reference to the actual license metadata.
pub(crate) fn expand_interned_licenses(
    node: Node<LicenseId>,
    interner: &LicensesInterner,
) -> Node<&License> {
    match node {
        Node::Root { children } => Node::Root {
            children: children
                .into_iter()
                .map(|child| expand_interned_licenses(child, interner))
                .collect(),
        },
        Node::Directory { name, children, license } => Node::Directory
        {
            children: children
                .into_iter()
                .map(|child| expand_interned_licenses(child, interner))
                .collect(),
            license: license.map(|license| interner.resolve(license)),
            name,
        },
        Node::File { name, license } => Node::File { name, license: interner.resolve(license) },
        Node::Group { files, directories, license } => {
            Node::Group { files, directories, license: interner.resolve(license) }
        }
        Node::Empty => Node::Empty,
    }
}

```

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[package]
name = "generate-copyright"
version = "0.1.0"
edition = "2021"
description = "Produces a manifest of all the copyrighted materials in the Rust Toolchain"

# See more keys and their definitions at https://doc.rust-lang.org/cargo/reference/manifest.html

[dependencies]
anyhow = "1.0.65"
cargo_metadata = "0.18.1"
rinja = "0.3.0"
serde = { version = "1.0.147", features = ["derive"] }
serde_json = "1.0.85"
thiserror = "1"
error[E0261]: use of undeclared lifetime name `a`
--> $DIR/ice-type-mismatch-when-copying-112824.rs:5:21
|
LL | pub struct Opcode2(&'a S);
|           - ^^ undeclared lifetime
|           |
|           help: consider introducing lifetime `a` here: `<'a>`

error[E0412]: cannot find type `S` in this scope
--> $DIR/ice-type-mismatch-when-copying-112824.rs:5:24
|
LL | pub struct Opcode2(&'a S);
|           ^ not found in this scope
|
help: you might be missing a type parameter
|
LL | pub struct Opcode2<S>(&'a S);
|           +++

```

error: aborting due to 2 previous errors

Some errors have detailed explanations: E0261, E0412.

For more information about an error, try `rustc --explain E0261`.

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Version 3.1, 31 March 2009

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VKlayd
Vlad-Shcherbina
vorne
wafflespeanut
wartman4404
waywardmonkeys
yaahallo
yangby-cryptape
yati-sagade
ykrivopalov
ysimonson
zayenz
zmanian
zmbush
zmt00
use std::path::{Path, PathBuf};
use std::process::{Command, Stdio};
use std::time::Instant;

use anyhow::Error;

use crate::licenses::{License, LicenseId, LicensesInterner};

```

pub(crate) fn collect(
    reuse_exe: &Path,
    interner: &mut LicensesInterner,
) -> Result<Vec<(PathBuf, LicenseId)>, Error> {
    println!("gathering license information from REUSE (this might take a minute...)");
    let start = Instant::now();
    let raw = &obtain_spdx_document(reuse_exe)?;
    println!("finished gathering the license information from REUSE in {:.2?}", start.elapsed());

    let document = spdx_rs::parsers::spdx_from_tag_value(&raw)?;

    let mut result = Vec::new();
    for file in document.file_information {
        let concluded_license = file.concluded_license.expect("File should have licence info");
        let copyright_text = file.copyright_text.expect("File should have copyright text");
        let license = interner.intern(License {
            spdx: concluded_license.to_string(),
            copyright: copyright_text.split("\n").map(|s| s.into()).collect(),
        });

        result.push((file.file_name.into(), license));
    }

    Ok(result)
}

fn obtain_spdx_document(reuse_exe: &Path) -> Result<String, Error> {
    let output = Command::new(reuse_exe)
        .args(&["--include-submodules", "spdx", "--add-license-concluded", "--creator-person=bors"])
        .stdout(Stdio::piped())
        .spawn()?
        .wait_with_output()?;

    if !output.status.success() {
        eprintln!();
        eprintln!("Note that Rust requires some REUSE features that might not be present in the");
        eprintln!("release you're using. Make sure your REUSE release includes these PRs:");
        eprintln!();
        eprintln!(" - https://github.com/fsfe/reuse-tool/pull/623");
        eprintln!();
        anyhow::bail!("collecting licensing information with REUSE failed");
    }

    Ok(String::from_utf8(output.stdout)?)
}

```

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Version 3.1, 31 March 2009

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1.172 boxcar 0.2.14

1.172.1 Available under license :

//! FreeBSD and NetBSD xattr support.

```
use libc::{c_int, c_void, size_t, EPERM};
use std::ffi::{CString, OsStr, OsString};
use std::io;
use std::mem;
use std::os::unix::ffi::{OsStrExt, OsStringExt};
use std::os::unix::io::{AsRawFd, BorrowedFd};
use std::path::Path;
use std::ptr;

use libc::{
    extattr_delete_fd, extattr_delete_file, extattr_delete_link, extattr_get_fd, extattr_get_file,
    extattr_get_link, extattr_list_fd, extattr_list_file, extattr_list_link, extattr_set_fd,
    extattr_set_file, extattr_set_link, EXTATTR_NAMESPACE_SYSTEM, EXTATTR_NAMESPACE_USER,
};

use crate::util::allocate_loop;

pub const ENOATTR: i32 = libc::ENOATTR;
pub const ERANGE: i32 = libc::ERANGE;

const EXTATTR_NAMESPACE_USER_STRING: &str = "user";
const EXTATTR_NAMESPACE_SYSTEM_STRING: &str = "system";
const EXTATTR_NAMESPACE_NAMES: [&str; 3] = [
    "empty",
    EXTATTR_NAMESPACE_USER_STRING,
    EXTATTR_NAMESPACE_SYSTEM_STRING,
];

fn path_to_c(path: &Path) -> io::Result<CString> {
    match CString::new(path.as_os_str().as_bytes())
    {
        Ok(name) => Ok(name),
        Err(_) => Err(io::Error::new(io::ErrorKind::NotFound, "file not found")),
    }
}

#[inline]
fn slice_parts(buf: &mut [u8]) -> (*mut c_void, size_t) {
    if buf.is_empty() {
        (ptr::null_mut(), 0)
    } else {
        (buf.as_mut_ptr().cast(), buf.len() as size_t)
    }
}
```



```

/// An iterator over a set of extended attributes names.
#[derive(Default)]
pub struct XAttrs {
    user_attrs: Box<[u8]>,
    system_attrs: Box<[u8]>,
    offset: usize,
}

impl Clone for XAttrs {
    fn clone(&self) -> Self {
        XAttrs {
            user_attrs: Vec::from(&*self.user_attrs).into_boxed_slice(),
            system_attrs: Vec::from(&*self.system_attrs).into_boxed_slice(),
            offset: self.offset,
        }
    }
}

fn clone_from(&mut self, other: &XAttrs) {
    self.offset = other.offset;

    let mut data = mem::replace(&mut self.user_attrs, Box::new([]).into_vec());
    data.extend(other.user_attrs.iter().cloned());
    self.user_attrs = data.into_boxed_slice();

    data = mem::replace(&mut self.system_attrs, Box::new([]).into_vec());
    data.extend(other.system_attrs.iter().cloned());
    self.system_attrs = data.into_boxed_slice();
}

impl Iterator for XAttrs {
    type Item = OsString;
    fn next(&mut self) -> Option<OsString> {
        if self.user_attrs.is_empty() && self.system_attrs.is_empty() {
            return None;
        }

        if self.offset == self.user_attrs.len() + self.system_attrs.len() {
            return None;
        }

        let data = if self.offset < self.system_attrs.len() {
            &self.system_attrs[self.offset..]
        } else {
            &self.user_attrs[self.offset - self.system_attrs.len()..]
        };

        let siz = data[0] as usize;

```

```

        self.offset += siz + 1;
        if self.offset < self.system_attrs.len() {
            Some(prefix_namespace(
                OsStr::from_bytes(&data[1..siz
+ 1])),
                EXTATTR_NAMESPACE_SYSTEM,
            ))
        } else {
            Some(prefix_namespace(
                OsStr::from_bytes(&data[1..siz + 1])),
                EXTATTR_NAMESPACE_USER,
            ))
        }
    }
}

fn size_hint(&self) -> (usize, Option<usize>) {
    if self.user_attrs.len() + self.system_attrs.len() == self.offset {
        (0, Some(0))
    } else {
        (1, None)
    }
}
}

// This could use libc::extattr_string_to_namespace, but it's awkward because
// that requires nul-terminated strings, which Rust's std is loathe to provide.
fn name_to_ns(name: &OsStr) -> io::Result<(c_int, CString)> {
    let mut groups = name.as_bytes().splitn(2, |&b| b == b'.').take(2);
    let nsname = match groups.next() {
        Some(s) => s,
        None => {
            return Err(io::Error::new(
                io::ErrorKind::InvalidInput,
                "couldn't find namespace",
            ))
        }
    };
};

let propname
= match groups.next() {
    Some(s) => s,
    None => {
        return Err(io::Error::new(
            io::ErrorKind::InvalidInput,
            "couldn't find attribute",
        ))
    }
}

```

```

};

let ns_int = match EXTATTR_NAMESPACE_NAMES
    .iter()
    .position(|&s| s.as_bytes() == nsname)
{
    Some(i) => i,
    None => {
        return Err(io::Error::new(
            io::ErrorKind::InvalidInput,
            "no matching namespace",
        ))
    }
};

Ok((ns_int as c_int, CString::new(propname)?))
}

fn prefix_namespace(attr: &OsStr, ns: c_int) -> OsString {
    let nsname = EXTATTR_NAMESPACE_NAMES[ns as usize];
    let mut v = Vec::with_capacity(nsname.as_bytes().len() + attr.as_bytes().len() + 1);
    v.extend(nsname.as_bytes());
    v.extend("." as_bytes());
    v.extend(attr.as_bytes());
    OsString::from_vec(v)
}

fn cvt(res: libc::ssize_t) -> io::Result<usize> {
    if res < 0 {
        Err(io::Error::last_os_error())
    } else {
        Ok(res as usize)
    }
}

pub fn get_fd(fd: BorrowedFd<'_>, name: &OsStr) -> io::Result<Vec<u8>> {
    let (ns, name) = name_to_ns(name)?;
    unsafe {
        allocate_loop(|buf| {
            let (ptr, len) = slice_parts(buf);
            cvt(extattr_get_fd(fd.as_raw_fd(), ns, name.as_ptr(), ptr, len))
        })
    }
}

pub fn set_fd(fd: BorrowedFd<'_>, name: &OsStr, value: &[u8]) -> io::Result<()> {
    let (ns, name) = name_to_ns(name)?;
    let ret = unsafe {

```

```

    extattr_set_fd(
        fd.as_raw_fd(),
        ns,
        name.as_ptr(),
        value.as_ptr() as *const c_void,
        value.len() as size_t,
    )
};
if ret == -1 {
    Err(io::Error::last_os_error())
} else {
    Ok(())
}
}

pub fn remove_fd(fd: BorrowedFd<'_>, name: &OsStr) -> io::Result<()> {
    let (ns, name) = name_to_ns(name)?;
    let ret = unsafe { extattr_delete_fd(fd.as_raw_fd(), ns, name.as_ptr()) };

    if ret != 0 {
        Err(io::Error::last_os_error())
    } else {
        Ok(())
    }
}

pub fn list_fd(fd: BorrowedFd<'_>) -> io::Result<XAttrs> {
    let sysvec = unsafe {
        let res = allocate_loop(|buf| {
            let (ptr, len) = slice_parts(buf);
            cvt(extattr_list_fd(
                fd.as_raw_fd(),
                EXTATTR_NAMESPACE_SYSTEM,
                ptr,
                len,
            ))
        });
    };
    // On FreeBSD, system attributes require root privileges to view. However,
    // to mimic the behavior of listxattr in linux and osx, we need to query
    // them anyway and return empty results if we get EPERM
    match res {
        Ok(v) => v,
        Err(err) => {
            if err.raw_os_error() == Some(EPERM) {
                Vec::new()
            } else {
                return Err(err);
            }
        }
    }
}

```

```

    }
}
};

let uservec = unsafe {
    let res = allocate_loop(|buf|
{
    let (ptr, len) = slice_parts(buf);
    cvt(extattr_list_fd(
        fd.as_raw_fd(),
        EXTATTR_NAMESPACE_USER,
        ptr,
        len,
    ))
});
    match res {
        Ok(v) => v,
        Err(err) => return Err(err),
    }
};

Ok(XAttrs {
    system_attrs: sysvec.into_boxed_slice(),
    user_attrs: uservec.into_boxed_slice(),
    offset: 0,
})
}

pub fn get_path(path: &Path, name: &OsStr, deref: bool) -> io::Result<Vec<u8>> {
    let (ns, name) = name_to_ns(name)?;
    let path = path_to_c(path)?;
    let extattr_get_func = if deref {
        extattr_get_file
    } else {
        extattr_get_link
    };
    unsafe {
        allocate_loop(|buf| {
            let (ptr, len) = slice_parts(buf);
            cvt(extattr_get_func(path.as_ptr(), ns, name.as_ptr(), ptr, len))
        })
    }
}

pub fn set_path(path: &Path, name: &OsStr, value: &[u8], deref: bool) -> io::Result<()>
{
    let (ns, name) = name_to_ns(name)?;
    let path = path_to_c(path)?;

```

```

let extattr_set_func = if deref {
    extattr_set_file
} else {
    extattr_set_link
};
let ret = unsafe {
    extattr_set_func(
        path.as_ptr(),
        ns,
        name.as_ptr(),
        value.as_ptr() as *const c_void,
        value.len() as size_t,
    )
};
if ret == -1 {
    Err(io::Error::last_os_error())
} else {
    Ok(())
}
}

pub fn remove_path(path: &Path, name: &OsStr, deref: bool) -> io::Result<()> {
    let (ns, name) = name_to_ns(name)?;
    let path = path_to_c(path)?;
    let extattr_delete_func = if deref {
        extattr_delete_file
    } else {
        extattr_delete_link
    };
    let ret = unsafe { extattr_delete_func(path.as_ptr(), ns, name.as_ptr()) };
    if ret != 0 {
        Err(io::Error::last_os_error())
    } else {
        Ok(())
    }
}

pub fn list_path(path: &Path, deref: bool) -> io::Result<XAttrs>
{
    let path = path_to_c(path)?;
    let extattr_list_func = if deref {
        extattr_list_file
    } else {
        extattr_list_link
    };
    let sysvec = unsafe {
        let res = allocate_loop(|buf| {
            let (ptr, len) = slice_parts(buf);

```

```

    cvt(extattr_list_func(
        path.as_ptr(),
        EXTATTR_NAMESPACE_SYSTEM,
        ptr,
        len,
    ))
});
// On FreeBSD, system attributes require root privileges to view. However,
// to mimic the behavior of listxattr in linux and osx, we need to query
// them anyway and return empty results if we get EPERM
match res {
    Ok(v) => v,
    Err(err) => {
        if err.raw_os_error() == Some(EPERM) {
            Vec::new()
        } else {
            return Err(err);
        }
    }
}
};

let uservec = unsafe {
    let res = allocate_loop(|buf|
{
        let (ptr, len) = slice_parts(buf);
        cvt(extattr_list_func(
            path.as_ptr(),
            EXTATTR_NAMESPACE_USER,
            ptr,
            len,
        ))
    });
    match res {
        Ok(v) => v,
        Err(err) => return Err(err),
    }
};

Ok(XAttrs {
    system_attrs: sysvec.into_boxed_slice(),
    user_attrs: uservec.into_boxed_slice(),
    offset: 0,
})
}
}
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```

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"#

//! This file contains the BSD APIs available in Haiku. It corresponds to the
//! header files in `headers/compatibility/bsd`.

//!

//! Note that Haiku's BSD compatibility is a combination of system APIs and
//! utility libraries. There should only be system APIs in `libc`. When you are
//! trying to determine whether something should be included in this file, the
//! best indicator is whether it also exists in the BSD-specific definitions in
//! this libc crate.

```

use crate::prelude::*;

// stringlist.h (utility library)
// Note: this is kept because it was previously introduced
pub type StringList = _stringlist;

s! {
    // stringlist.h (utility library)
    // Note: this is kept because it was previously introduced
    pub struct _stringlist {
        pub sl_str: *mut *mut c_char,
        pub sl_max: size_t,
        pub sl_cur: size_t,
    }

    // sys/event.h
    pub struct kevent {
        pub ident: crate::uintptr_t,
        pub filter: c_short,
        pub flags: c_ushort,

        pub fflags: c_uint,
        pub data: i64,
        pub udata: *mut c_void,
        pub ext: [u64; 4],
    }

    // sys/link_elf.h
    pub struct dl_phdr_info {
        pub dlpi_addr: crate::Elf_Addr,
        pub dlpi_name: *const c_char,
        pub dlpi_phdr: *const crate::Elf_Phdr,
        pub dlpi_phnum: crate::Elf_Half,
    }
}

// sys/event.h
pub const EVFILT_READ: i16 = -1;
pub const EVFILT_WRITE: i16 = -2;
pub const EVFILT_PROC: i16 = -5;
pub const EV_ADD: u16 = 0x0001;
pub const EV_DELETE: u16 = 0x0002;
pub const EV_ONESHOT: u16 = 0x0010;
pub const EV_CLEAR: u16 = 0x0020;
pub const EV_EOF: u16 = 0x8000;
pub const EV_ERROR: u16 = 0x4000;
pub const NOTE_EXIT: u32 = 0x80000000;

```

```

// sys/ioccom.h
pub const IOC_VOID: c_ulong = 0x20000000;
pub const IOC_OUT: c_ulong = 0x40000000;
pub const IOC_IN: c_ulong = 0x80000000;
pub const IOC_INOUT: c_ulong = IOC_IN | IOC_OUT;
pub const IOC_DIRMASK: c_ulong = 0xe0000000;

#[link(name = "bsd")]
extern "C" {
    // stdlib.h
    pub fn daemon(nochdir:
c_int, noclose: c_int) -> c_int;
    pub fn getprogname() -> *const c_char;
    pub fn setprogname(progname: *const c_char);
    pub fn arc4random() -> u32;
    pub fn arc4random_uniform(upper_bound: u32) -> u32;
    pub fn arc4random_buf(buf: *mut c_void, n: size_t);
    pub fn mkstemps(template: *mut c_char, suffixlen: c_int) -> c_int;
    pub fn strtonum(
        nptr: *const c_char,
        minval: c_longlong,
        maxval: c_longlong,
        errstr: *mut *const c_char,
    ) -> c_longlong;

    // pty.h
    pub fn openpty(
        amaster: *mut c_int,
        aslave: *mut c_int,
        name: *mut c_char,
        term: *mut crate::termios,
        winp: *mut crate::winsize,
    ) -> c_int;
    pub fn login_tty(_fd: c_int) -> c_int;
    pub fn forkpty(
        amaster: *mut c_int,
        name: *mut c_char,
        term: *mut crate::termios,
        winp: *mut crate::winsize,
    ) -> crate::pid_t;

    // string.h
    pub fn strsep(string: *mut *mut c_char, delimiters:
*const c_char) -> *mut c_char;
    pub fn explicit_bzero(buf: *mut c_void, len: size_t);

    // stringlist.h (utility library)
    // Note: this is kept because it was previously introduced

```

```

pub fn sl_init() -> *mut StringList;
pub fn sl_add(sl: *mut StringList, n: *mut c_char) -> c_int;
pub fn sl_free(sl: *mut StringList, i: c_int);
pub fn sl_find(sl: *mut StringList, n: *mut c_char) -> *mut c_char;

// sys/event.h
pub fn kqueue() -> c_int;
pub fn kevent(
    kq: c_int,
    changelist: *const kevent,
    nchanges: c_int,
    eventlist: *mut kevent,
    nevents: c_int,
    timeout: *const crate::timespec,
) -> c_int;

// sys/link_elf.h
pub fn dl_iterate_phdr(
    callback: Option<
        unsafe extern "C" fn(info: *mut dl_phdr_info, size: usize, data: *mut c_void) -> c_int,
    >,
    data: *mut c_void,
) -> c_int;

// sys/time.h
pub fn lutimes(file: *const c_char, times: *const crate::timeval)
-> c_int;

// sys/uov.h
pub fn preadv(
    fd: c_int,
    iov: *const crate::iovec,
    iovcnt: c_int,
    offset: crate::off_t,
) -> ssize_t;
pub fn pwritev(
    fd: c_int,
    iov: *const crate::iovec,
    iovcnt: c_int,
    offset: crate::off_t,
) -> ssize_t;

// sys/wait.h
pub fn wait4(
    pid: crate::pid_t,
    status: *mut c_int,
    options: c_int,
    rusage: *mut crate::rusage,

```

```
) -> crate::pid_t;
}
```

=====

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r#" 2.1

1

- a.
- b.
- c.
- d.
- e.
- f.

2

304918241924202102

3

7b

- a.
- b.

- c.
- d.
- e.
- f.
- g.

4

5

34

- a.
- b.
- c. URIUniform Resource Identifier
- d. URI
- e.
- f.
- g.
- h.
- i.
- j. 1234URIURIURI5
- k.

6

7

- a. 1249
- b. a
- c. ab

8

- a.
- b.
- c.
- d.

9

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Version 3, 19 November 2007

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b. Abwandlungen des Schutzgegenstandes anzufertigen, einschlielich bersetzungen unter Nutzung jedweder Medien, sofern deutlich erkennbar gemacht wird, dass es sich um Abwandlungen handelt;

c. den Schutzgegenstand, allein oder in Sammelwerke aufgenommen, ffentlich zu zeigen und zu verbreiten;

d. Abwandlungen des Schutzgegenstandes zu verffentlichen, ffentlich zu zeigen und zu verbreiten.

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b. Sie drfen eine Abwandlung ausschlielich unter den Bedingungen

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c. Die Rechteeinräumung

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- ii. den Titel des Inhaltes;

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iv. und im Falle einer Abwandlung des Schutzgegenstandes in bereinstimmung mit Abschnitt 3.b) einen Hinweis darauf, dass es sich um eine Abwandlung handelt.

Die nach diesem Abschnitt

4.d) erforderlichen Angaben können in jeder angemessenen Form gemacht werden; im Falle einer Abwandlung des Schutzgegenstandes oder eines Sammelwerkes müssen diese Angaben das Minimum darstellen und bei gemeinsamer Nennung mehrerer Rechteinhaber dergestalt erfolgen, dass sie zumindest ebenso hervorgehoben sind wie die Hinweise auf die übrigen Rechteinhaber. Die Angaben nach diesem Abschnitt dürfen Sie ausschließlich zur Angabe der Rechteinhaberschaft in der oben bezeichneten Weise verwenden. Durch die Ausübung Ihrer Rechte aus dieser Lizenz dürfen Sie ohne eine vorherige, separat und schriftlich vorliegende Zustimmung des Lizenzgebers und / oder des Zuschreibungsempfängers weder explizit noch implizit irgendeine Verbindung zum Lizenzgeber oder Zuschreibungsempfänger und ebenso wenig eine Unterstützung oder Billigung durch ihn andeuten.

e. Die oben unter 4.a) bis d) genannten Einschränkungen gelten nicht für solche Teile des Schutzgegenstandes, die allein deshalb unter den Schutzgegenstandsbegriff fallen, weil sie als Datenbanken oder Zusammenstellungen von Daten einen immaterialgüterrechtlichen Schutz eigener Art genießen.

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iii. Vergütung in sonstigen Fällen: Bezüglich lizenzgerechter Nutzung des Schutzgegenstandes durch Sie, die nicht unter die beiden vorherigen Abschnitte (i) und (ii) fällt, verzichtet der Lizenzgeber auf jegliche Vergütung, unabhängig davon, ob eine Einziehung der Vergütung durch ihn selbst oder nur durch eine Verwertungsgesellschaft möglich wäre. Der Lizenzgeber behält sich jedoch das ausschließliche Recht auf Einziehung der entsprechenden Vergütung (durch ihn selbst oder eine Verwertungsgesellschaft) für den Fall vor, dass Sie eine Nutzung des Schutzgegenstandes für andere als die in Abschnitt 4.c) als nicht-kommerziell definierten Zwecke vornehmen.

g. Persönlichkeitsrechte bleiben - soweit sie bestehen - von dieser Lizenz unberührt.

5. Gewährleistung

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c. Sollte eine Bestimmung dieser Lizenz unwirksam sein, so bleibt davon die Wirksamkeit der Lizenz im übrigen unberührt.

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//! `ioctl` opcode behavior for BSD platforms.

use super::{Direction, Opcode};

```
pub(super) const fn compose_opcode(
    dir: Direction,
    group: Opcode,
    num: Opcode,
    size: Opcode,
) -> Opcode {
    let dir = match dir {
        Direction::None => NONE,
        Direction::Read => READ,
        Direction::Write => WRITE,
        Direction::ReadWrite => READ | WRITE,
    };

    dir | num | (group << 8) | ((size & IOCPARAM_MASK) << 16)
}
```

```
// `IOC_VOID`
pub const NONE: Opcode = 0x2000_0000;
// `IOC_OUT` (out is from the perspective of the kernel)
pub const READ: Opcode = 0x4000_0000;
// `IOC_IN` (in is from the perspective of the kernel)
pub const WRITE: Opcode = 0x8000_0000;
pub const IOCPARAM_MASK: Opcode = 0x1FFF;
r#"Copyright (C) 2002 Naval Research Laboratory (NRL/CCS)
```

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#![no_std]` opcode behavior for BSD platforms.

use super::{Direction, RawOpcode};


```

pub(super) const fn compose_opcode(
    dir: Direction,
    group: RawOpcode,
    num: RawOpcode,
    size: RawOpcode,
) -> RawOpcode {
    let dir = match dir {
        Direction::None => NONE,
        Direction::Read => READ,
        Direction::Write => WRITE,
        Direction::ReadWrite => READ | WRITE,
    };

    dir | num | (group << 8) | ((size & IOCPARAM_MASK) << 16)
}

// `IOC_VOID`
pub const NONE: RawOpcode = 0x2000_0000;
// `IOC_OUT` (out is from the perspective of the kernel)
pub const READ: RawOpcode = 0x4000_0000;
// `IOC_IN` (in is from the perspective of the kernel)
pub const WRITE: RawOpcode = 0x8000_0000;
pub const IOCPARAM_MASK: RawOpcode = 0x1FFF;
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```

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bzip2/libbzip2 version 1.0.8 of 13 July 2019

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11.2 Any failure by either Party, on one or more occasions, to invoke one or more of the provisions hereof, shall under no circumstances be interpreted as being a waiver by the interested Party of its right to invoke said provision(s) subsequently.

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Version 1.0 dated 2006-09-05.

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Version 3.0, 18 August 2009

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By Shawn Hargreaves, 18 October 1998.

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BoringSSL uses the Chromium test infrastructure to run a continuous build, trybots etc. The scripts which manage this, and the script for generating build metadata, are under the Chromium license. Distributing code linked against BoringSSL does not trigger this license.

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Contrat

L'Oeuvre (telle que définie ci-dessous) est mise à disposition selon les termes du présent contrat appelé Contrat Public Creative Commons (dénommé ici CPCC ou Contrat). L'Oeuvre est protégée par le droit de la propriété littéraire et artistique (droit d'auteur, droits voisins, droits des producteurs de bases de données) ou toute autre loi applicable. Toute utilisation de l'Oeuvre autrement qu'explicitement autorisée selon ce Contrat ou le droit applicable est interdite.

L'exercice sur l'Oeuvre de tout droit proposé par le présent contrat vaut acceptation de celui-ci. Selon les termes et les obligations du présent contrat, la partie Offrante propose à la partie Acceptante l'exercice de certains droits présents ci-après, et l'Acceptant en approuve les termes et conditions d'utilisation.

1. Définitions

a. Oeuvre : oeuvre de l'esprit protégeable par le droit de la propriété littéraire et artistique ou toute loi applicable et qui est mise à disposition selon les termes du présent Contrat.

b. Oeuvre dite Collective : une oeuvre dans laquelle l'oeuvre, dans sa forme intégrale et non modifiée, est assemblée en un ensemble collectif avec d'autres contributions qui constituent en elles-mêmes des oeuvres séparées et indépendantes. Constituent notamment des Oeuvres dites Collectives les publications périodiques, les anthologies ou les encyclopédies. Aux termes de la présente autorisation, une oeuvre qui constitue une Oeuvre dite Collective ne sera pas considérée comme une Oeuvre dite Drive (telle que définie ci-après).

c. Oeuvre dite Drive : une oeuvre créée soit à partir de l'Oeuvre seule, soit à partir de l'Oeuvre et d'autres oeuvres préexistantes. Constituent notamment des Oeuvres dites Drives les traductions, les arrangements musicaux, les adaptations théâtrales, littéraires ou cinématographiques, les enregistrements sonores, les reproductions par un art ou un procédé quelconque, les résumés, ou toute autre forme sous laquelle l'Oeuvre puisse être remaniée, modifiée, transformée ou adaptée, l'exception d'une oeuvre qui constitue une Oeuvre dite Collective. Une Oeuvre dite Collective ne sera pas considérée comme une Oeuvre dite Drive aux termes du présent Contrat. Dans le cas où l'Oeuvre serait une composition musicale ou un enregistrement sonore, la synchronisation de l'oeuvre avec une image animée sera considérée comme une Oeuvre dite Drive pour les propos de ce Contrat.

d. Auteur original : la ou les personnes physiques qui ont créé l'Oeuvre.

e. Offrant : la ou les personne(s) physique(s) ou morale(s) qui proposent la mise à disposition de l'Oeuvre selon les termes du présent Contrat.

f. Acceptant : la personne physique ou morale qui accepte le présent contrat et exerce des droits sans en avoir violé les termes au préalable ou qui a reçu l'autorisation expresse de l'Offrant d'exercer des droits dans le cadre du présent contrat malgré une précédente violation de ce contrat.

g. Options du Contrat : les attributs génériques du Contrat tels qu'ils ont été choisis par l'Offrant et indiqués dans le titre de ce Contrat : Paternité - Pas d'Utilisation Commerciale - Partage Des Conditions Initiales À l'Identique.

2. Exceptions aux droits exclusifs. Aucune disposition de ce contrat n'a pour intention de réduire, limiter ou restreindre les prérogatives issues des exceptions aux droits, de l'usage des droits ou d'autres limitations aux droits exclusifs des ayants droit selon le droit de la propriété littéraire et artistique ou les autres lois applicables.

3. Autorisation. Soumis aux termes et conditions définies dans cette autorisation, et ceci pendant toute la durée de protection de l'Oeuvre par le droit de la propriété littéraire et artistique ou le droit applicable, l'Offrant accorde l'Acceptant l'autorisation mondiale d'exercer, titre gratuit et non exclusif, les droits suivants :

a. reproduire l'Oeuvre, incorporer l'Oeuvre dans une ou plusieurs Oeuvres dites Collectives et reproduire l'Oeuvre telle qu'elle incorpore dans lesdites Oeuvres dites Collectives;

b. créer et reproduire des Oeuvres dites Drives;

c. distribuer des exemplaires ou enregistrements, présenter, représenter ou communiquer l'Oeuvre au public par tout procédé technique, y compris incorporé dans des Oeuvres Collectives;

d. distribuer des exemplaires ou phonogrammes, présenter, représenter ou communiquer au public des Oeuvres dites Drives par tout procédé technique;

e. lorsque l'Oeuvre est une base de données, extraire et réutiliser des parties substantielles de l'Oeuvre.

Les droits mentionnés ci-dessus peuvent être exercés sur tous les supports, médias, procédés techniques et formats. Les droits ci-dessus incluent le droit d'effectuer les modifications nécessaires techniquement à l'exercice des droits dans d'autres formats et procédés techniques. L'exercice de tous les droits qui ne sont pas expressément autorisés par l'Offrant ou dont il n'aurait pas la gestion demeure réservé, notamment les mécanismes de gestion collective obligatoire applicables décrits à l'article 4(e).

4. Restrictions. L'autorisation accordée par l'article 3 est expressément assujettie et limitée par le respect des restrictions suivantes :

a. L'Acceptant peut reproduire, distribuer, représenter ou communiquer au public l'Oeuvre y compris par voie numérique uniquement selon les termes de ce Contrat. L'Acceptant doit inclure une copie ou l'adresse Internet (Identifiant Uniforme de Ressource) du présent Contrat toute reproduction ou enregistrement de l'Oeuvre que l'Acceptant distribue, représente ou communique au public y compris par voie numérique. L'Acceptant ne peut pas offrir ou imposer de conditions d'utilisation de l'Oeuvre qui altèrent ou restreignent les termes du présent Contrat ou l'exercice des droits qui y sont accordés au bénéficiaire. L'Acceptant ne peut pas céder de droits sur l'Oeuvre. L'Acceptant doit conserver intactes toutes les informations qui renvoient ce Contrat et l'exonération de responsabilité. L'Acceptant ne peut pas reproduire, distribuer, représenter ou communiquer au public l'Oeuvre, y compris par voie numérique, en utilisant une mesure technique de contrôle d'accès ou de contrôle d'utilisation qui serait contradictoire avec les termes de cet Accord contractuel. Les mentions ci-dessus s'appliquent à l'Oeuvre telle qu'incorporée dans une Oeuvre dite Collective, mais, en dehors de l'Oeuvre en elle-même, ne soumettent pas l'Oeuvre dite Collective, aux termes du présent Contrat. Si l'Acceptant crée une Oeuvre dite Collective, la demande de tout Offrant, il devra, dans la mesure du possible, retirer de l'Oeuvre dite Collective toute référence au dit Offrant, comme demandé. Si l'Acceptant crée une Oeuvre dite Collective, la demande de tout Auteur, il devra, dans la mesure du possible, retirer de l'Oeuvre dite Collective toute référence au dit Auteur, comme demandé. Si l'Acceptant crée une Oeuvre dite Drive, la demande de tout Offrant, il devra, dans la mesure du possible, retirer de l'Oeuvre dite Drive toute référence au dit Offrant, comme demandé. Si l'Acceptant crée une Oeuvre dite Drive, la demande de tout Auteur, il devra, dans la mesure du possible, retirer de l'Oeuvre dite Drive toute référence au dit Auteur, comme demandé.

b. L'Acceptant peut reproduire, distribuer, représenter ou communiquer au public une Oeuvre dite Drive y compris par voie numérique uniquement sous les termes de ce Contrat, ou d'une version ultérieure de ce Contrat comprenant les mêmes Options du Contrat que le présent Contrat, ou un Contrat Creative Commons iCommons comprenant les mêmes Options du Contrat que le présent Contrat (par exemple Paternité - Pas d'Utilisation Commerciale - Partage Des Conditions Initiales À L'Identique 2.0 Japon). L'Acceptant doit inclure une copie ou l'adresse Internet (Identifiant Uniforme de Ressource) du présent Contrat, ou d'un autre Contrat tel que décrit la phrase précédente, toute reproduction ou enregistrement de l'Oeuvre dite Drive que l'Acceptant distribue, représente ou communique au public y compris par voie numérique. L'Acceptant ne peut pas offrir ou imposer de conditions d'utilisation sur l'Oeuvre dite Drive qui altèrent ou restreignent les termes

du présent Contrat ou l'exercice des droits qui y sont accordés au bénéficiaire, et doit conserver intactes toutes les informations qui renvoient ce Contrat et l'avertissement sur les garanties. L'Acceptant ne peut pas reproduire, distribuer, représenter ou communiquer au public y compris par voie numérique l'Oeuvre dite Drive en utilisant une mesure technique de contrôle d'accès ou de contrôle d'utilisation qui serait contradictoire avec les termes de cet Accord contractuel. Les mentions ci-dessus s'appliquent l'Oeuvre dite Drive telle qu'incorpore dans une Oeuvre dite Collective, mais, en dehors de l'Oeuvre dite Drive en elle-même, ne soumettent pas l'Oeuvre Collective, aux termes du présent Contrat.

c. L'Acceptant ne peut exercer aucun des droits conférés par l'article 3 avec l'intention ou l'objectif d'obtenir un profit commercial ou une compensation financière personnelle. L'échange de l'Oeuvre avec d'autres Oeuvres protégées par le droit de la propriété littéraire et artistique par le partage électronique de fichiers, ou par tout autre moyen, n'est pas considéré comme un échange avec l'intention ou l'objectif d'un profit commercial ou d'une compensation financière personnelle, dans la mesure où aucun paiement ou compensation financière n'intervient en relation avec l'échange d'Oeuvres protégées.

d. Si l'Acceptant reproduit, distribue, représente ou communique au public, y compris par voie numérique, l'Oeuvre ou toute Oeuvre dite Drive ou toute Oeuvre dite Collective, il doit conserver intactes toutes les informations sur le régime des droits et en attribuer la paternité à l'Auteur Original, de manière raisonnable au regard du médium ou du moyen utilisé. Il doit communiquer le nom de l'Auteur Original ou son éventuel pseudonyme s'il est indiqué ; le titre de l'Oeuvre Originale s'il est indiqué ; dans la mesure du possible, l'adresse Internet ou Identifiant Uniforme de Ressource (URI), s'il existe, spécifié par l'Offrant comme associé à l'Oeuvre, moins que cette adresse ne renvoie pas aux informations légales (paternité et conditions d'utilisation de l'Oeuvre). Dans le cas d'une Oeuvre dite Drive, il doit indiquer les éléments identifiant l'utilisation de l'Oeuvre dans l'Oeuvre dite Drive par exemple Traduction anglaise de l'Oeuvre par l'Auteur Original ou Scénario basé sur l'Oeuvre par l'Auteur Original.

Ces obligations d'attribution de paternité doivent être exécutées de manière raisonnable. Cependant, dans le cas d'une Oeuvre dite Drive ou d'une Oeuvre dite Collective, ces informations doivent, au minimum, apparaître de manière aussi visible que celles auxquelles apparaissent les informations de même nature.

e. Dans le cas où une utilisation de l'Oeuvre serait soumise à un régime légal de gestion collective obligatoire, l'Offrant se réserve le droit exclusif de collecter ces redevances par l'intermédiaire de la société de perception et de répartition des droits compétente. Sont notamment concernés la radiodiffusion et la communication dans un lieu public de phonogrammes publiés à des fins de commerce, certains cas de retransmission par câble et satellite, la copie privée d'Oeuvres fixes sur phonogrammes ou vidéogrammes, la reproduction par reprographie.

5. Garantie et exonération de responsabilité

a. En mettant l'Oeuvre à la disposition du public selon les termes de ce Contrat, l'Offrant déclare de bonne foi qu'à sa connaissance et dans les limites d'une enquête raisonnable :

i. L'Offrant a obtenu tous les droits sur l'Oeuvre nécessaires pour pouvoir autoriser l'exercice des droits accordés par le présent Contrat, et permettre la jouissance paisible et l'exercice licite de ces droits, ceci sans que l'Acceptant n'ait aucune obligation de verser de rémunération ou tout autre paiement ou droits, dans la limite des mécanismes de gestion collective obligatoire applicables décrits à l'article 4(e) ;

ii. L'Oeuvre n'est constitutive ni d'une violation des droits de tiers, notamment du droit de la propriété littéraire et artistique, du droit des marques, du droit de l'information, du droit civil ou de tout autre droit, ni de diffamation, de

violation de la vie privée ou de tout autre préjudice d'ordre moral ou matériel l'égard de toute tierce partie.

b. A l'exception des situations expressément mentionnées dans le présent Contrat ou dans un autre accord écrit, ou exigées par la loi applicable,

l'Oeuvre est mise à disposition en l'état sans garantie d'aucune sorte, qu'elle soit expresse ou tacite, y compris l'égard du contenu ou de l'exactitude de l'Oeuvre.

6. Limitation de responsabilité. A l'exception des garanties d'ordre public imposées par la loi applicable et des réparations imposées par le régime de la responsabilité vis-à-vis d'un tiers en raison de la violation des garanties prévues par l'article 5 du présent contrat, l'Offrant ne sera en aucun cas tenu responsable vis-à-vis de l'Acceptant, sur la base d'aucune théorie légale ni en raison d'aucun préjudice direct, indirect, matériel ou moral, résultant de l'exécution du présent Contrat ou de l'utilisation de l'Oeuvre, y compris dans l'hypothèse où l'Offrant avait connaissance de la possible existence d'un tel préjudice.

7. Résiliation

a. Tout manquement aux termes du contrat par l'Acceptant entraîne la résiliation automatique du Contrat et la fin des droits qui en découlent. Cependant, le contrat conserve ses effets envers les personnes physiques ou morales qui ont reçu de la part de l'Acceptant, en exécution du présent contrat, la mise à disposition d'Oeuvres dites Drives, ou d'Oeuvres dites Collectives, ceci tant qu'elles respectent pleinement leurs obligations. Les sections 1, 2, 5, 6 et 7 du contrat continuent s'appliquer après la résiliation de celui-ci.

b. Dans les limites indiquées ci-dessus, le présent Contrat s'applique pendant toute la durée de protection de l'Oeuvre selon le droit applicable. Néanmoins, l'Offrant se réserve tout moment le droit d'exploiter l'Oeuvre sous des conditions contractuelles différentes, ou d'en cesser la diffusion; cependant, le recours à cette option ne doit pas conduire à retirer les effets du présent Contrat (ou de tout contrat qui a été ou doit être accordé selon les termes de ce Contrat), et ce Contrat continuera s'appliquer dans tous ses effets jusqu'à ce que sa résiliation intervienne dans les conditions décrites ci-dessus.

8. Divers

a. A chaque reproduction ou communication au public par voie numérique de l'Oeuvre ou d'une Oeuvre dite Collective par l'Acceptant, l'Offrant propose au bénéficiaire une offre de mise à disposition de l'Oeuvre dans des termes et conditions identiques à ceux des accords conclus par la partie Acceptante dans le présent Contrat.

b. A chaque reproduction ou communication au public par voie numérique d'une Oeuvre dite Drive par l'Acceptant, l'Offrant propose au bénéficiaire une offre de mise à disposition du bénéficiaire de l'Oeuvre originale dans des termes et conditions identiques à ceux des accords conclus par la partie Acceptante dans le présent Contrat.

c. La nullité ou l'inapplicabilité d'une quelconque disposition de ce Contrat au regard de la loi applicable n'affecte pas celle des autres dispositions qui resteront pleinement valides et applicables. Sans action supplémentaire par les parties à cet accord, lesdites dispositions devront être interprétées dans la mesure minimum nécessaire à leur validité et leur applicabilité.

d. Aucune limite, renonciation ou modification des termes ou dispositions du présent Contrat ne pourra être acceptée sans le consentement écrit et signé de la partie compétente.

e. Ce Contrat constitue le seul accord entre les parties propos de l'Oeuvre mise ici disposition. Il n'existe aucun lment annexe, accord supplmentaire ou mandat portant sur cette Oeuvre en dehors des lments mentionns ici. L'Offrant ne sera tenu par aucune disposition supplmentaire qui pourrait apparatre dans une quelconque communication en provenance de l'Acceptant. Ce Contrat ne peut tre modifi sans l'accord mutuel crit de l'Offrant et de l'Acceptant.

f. Le droit applicable est le droit franais.

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Version 2.1, February 1999

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r#"Cube game engine source code, 20 dec 2003 release.

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```
printf("%s",png_get_copyright(NULL));
```

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__C__Users_Peter_Code_winapi_rs_x86_64_lib_libwinapi_oemlicense_a_iname_head_C__Users_Peter_Code_winapi_rs_x86_64_lib_libwinapi_oemlicense_aRemoveDemoAppLicense__imp_RemoveDemoAppLicenseAddDemoAppLicense__imp_AddDemoAppLicensedgbabt.o/ 1516160780 0 0 100666 638 `

d\$.text

P`.data@P.bssP.idata\$4@0.idata\$5@0.idata\$7@0OEMLicense.dll.filefake.text.data.bss.idata\$4.idata\$5.idata\$7L\_\_C\_\_Users\_Peter\_Code\_winapi\_rs\_x86\_64\_lib\_libwinapi\_oemlicense\_a\_inamedgbabh.o/ 1516160780 0 0 100666 744 `

d6.text P`.data@P.bssP.idata\$2@0.idata\$5@0.idata\$4@0

.filefakehnamefthunk.text.data.bss.idata\$2.idata\$4.idata\$5J_head_C__Users_Peter_Code_winapi_rs_x86_64_lib_libwinapi_oemlicense_a__C__Users_Peter_Code_winapi_rs_x86_64_lib_libwinapi_oemlicense_a_inamedgbabs0001.o/ 1516160780 0 0 100666 694 `

d

.text,`0`.data@0.bss0.idata\$74j0.idata\$58t0.idata\$4@~0.idata\$6H %RemoveDemoAppLicense

.text.data.bss.idata\$7.idata\$5.idata\$4.idata\$64zRemoveDemoAppLicense__imp_RemoveDemoAppLicense_head_C__Users_Peter_Code_winapi_rs_x86_64_lib_libwinapi_oemlicense_adgbabs00000.o/

1516160780 0 0 100666 684 `

d

.text,\0`.data@0.bss0.idata\$74f0.idata\$58p0.idata\$4@z0.idata\$6H %AddDemoAppLicense

.text.data.bss.idata\$7.idata\$5.idata\$4.idata\$6.tAddDemoAppLicense__imp_AddDemoAppLicense_head_C__Users_Peter_Code_winapi_rs_x86_64_lib_libwinapi_oemlicense_a

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% This Current Maintainer of this work is M. Y. Name.
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< signature of Ty Coon > , 1 April 1989 Ty Coon, President of Vice

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b. Die Rechteeinräumung gemäß Abschnitt 3 gilt nur für Handlungen, die nicht vorrangig auf einen geschäftlichen Vorteil oder eine geldwerte Vergütung gerichtet sind ("nicht-kommerzielle Nutzung", "Non-commercial-Option"). Wird Ihnen in Zusammenhang mit dem Schutzgegenstand dieser Lizenz ein anderer Schutzgegenstand berlassen, ohne dass eine vertragliche Verpflichtung hierzu besteht (etwa im Wege von File-Sharing), so wird dies nicht als auf geschäftlichen Vorteil oder geldwerte Vergütung gerichtet angesehen, wenn in Verbindung mit dem Austausch der Schutzgegenstände tatsächlich keine Zahlung oder geldwerte Vergütung geleistet wird.

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Sie sind verpflichtet, die Rechteinhaberschaft in einer der Nutzung entsprechenden, angemessenen Form anzuerkennen, indem Sie - soweit bekannt - Folgendes angeben:

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ii. den Titel des Inhaltes;

iii. in einer praktikablen Form den Uniform-Resource-Identifier (URI, z.B. Internetadresse), den der Lizenzgeber zum Schutzgegenstand angegeben hat, es sei denn, dieser URI verweist nicht auf den Rechtevermerk oder die Lizenzinformationen zum Schutzgegenstand;

iv. und im Falle einer Abwandlung des Schutzgegenstandes in bereinstimmung mit Abschnitt 3.b) einen Hinweis darauf, dass es sich um eine Abwandlung handelt.

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f. Persönlichkeitsrechte bleiben - soweit sie bestehen - von dieser Lizenz unberührt.

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"#

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Licentie

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DOOR HET UITOEFENEN VAN DE IN DEZE

LICENTIE VERLEENDE RECHTEN MET BETREKKING TOT HET WERK AANVAARDT EN GAAT DE GEBRUIKER AKKOORD MET DE VOORWAARDEN VAN DEZE LICENTIE, MET DIEN VERSTANDE DAT (DE INHOUD VAN) DEZE LICENTIE OP VOORHAND VOLDOENDE DUIDELIJK KENBAAR DIENT TE ZIJN VOOR DE ONTVANGER VAN HET WERK.

DE LICENTIEGEVER VERLEENT DE GEBRUIKER DE IN DEZE LICENTIE OMSCHREVEN RECHTEN MET INACHTNEMING VAN DE DESBETREFFENDE VOORWAARDEN.

1. Definities

a. 'Verzamelwerk' een werk waarin het Werk, in zijn geheel en in ongewijzigde vorm, samen met een of meer andere werken, die elk een afzonderlijk en zelfstandig werk vormen, tot een geheel is samengevoegd. Voorbeelden van een verzamelwerk zijn een tijdschrift, een bloemlezing of een encyclopedie. Een Verzamelwerk zal voor de toepassing van deze Licentie niet als een Afgeleid werk (als hieronder omschreven) worden beschouwd.

b. 'Afgeleid werk' een werk dat is gebaseerd op het Werk of op het Werk en andere reeds bestaande werken. Voorbeelden van een Afgeleid werk zijn een vertaling, een muziekschikking (arrangement), een toneelbewerking, een literaire bewerking, een verfilming, een geluidsopname, een kunstreproductie, een verkorte versie, een samenvatting of enig andere bewerking van het Werk, met dien verstande dat een Verzamelwerk voor de toepassing van deze Licentie niet als een Afgeleid werk zal worden beschouwd.

Indien het Werk een muziekwerk betreft, zal de synchronisatie van de tijdslijnen van het Werk en een bewegend beeld ('synching') voor de toepassing van deze Licentie als een Afgeleid Werk worden beschouwd.

c. 'Licentiegever' de natuurlijke persoon/personen of rechtspersoon/rechtspersonen die het Werk volgens de voorwaarden van deze Licentie aanbiedt/aanbieden.

d. 'Maker' de natuurlijke persoon/personen of rechtspersoon/personen die het oorspronkelijke werk gemaakt heeft/hebben. Voor de toepassing van deze Licentie wordt onder de Maker mede verstaan de uitvoerende kunstenaar, film- en fonogramproducent en omroeporganisaties in de zin van de Wet op de naburige rechten en de producent van een databank in de zin van de Databankenwet.

e. 'Werk' het auteursrechtelijk beschermde werk dat volgens de voorwaarden van deze Licentie wordt aangeboden. Voor de toepassing van deze Licentie wordt onder het Werk mede verstaan het fonogram, de eerste vastlegging van een film en het (omroep)programma in de zin van de Wet op de naburige rechten en de databank in de zin van de Databankenwet, voor zover dit fonogram, deze eerste vastlegging van een film, dit (omroep)programma en deze databank beschermd wordt krachtens de toepasselijke wet in de jurisdictie van de Gebruiker.

f. 'Gebruiker' de natuurlijke persoon of rechtspersoon die rechten ingevolge deze Licentie uitoefent en die de voorwaarden van deze Licentie met betrekking tot het Werk niet eerder geschonden heeft, of die van de Licentiegever uitdrukkelijke toestemming gekregen heeft om rechten ingevolge deze Licentie uit te oefenen ondanks een eerdere schending.

2.

Beperkingen van de uitsluitende rechten. Niets in deze Licentie strekt ertoe om de rechten te beperken die voortvloeien uit de beperkingen en uitputting van de uitsluitende rechten van de rechthebbende krachtens het auteursrecht, de naburige rechten, het databankenrecht of enige andere toepasselijke rechten.

3. Licentieverlening. Met inachtneming van de voorwaarden van deze Licentie verleent de Licentiegever hierbij aan de Gebruiker een wereldwijde, niet-exclusieve licentie om de navolgende rechten met betrekking tot het Werk vrij van royalty's uit te oefenen voor de duur van de toepasselijke intellectuele eigendomsrechten:

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- b. het maken en reproduceren van Afgeleide werken met dien verstande dat met betrekking tot het Afgeleide werk, met inbegrip van welke vertaling in welk medium dan ook, duidelijk wordt gemaakt dat er wijzigingen in het oorspronkelijke Werk zijn aangebracht. Bijvoorbeeld, aan een vertaling kan worden toegevoegd dat 'het oorspronkelijke Werk is van het Engels in het Spaans vertaald', of in geval van een verandering kan worden aangegeven dat 'het oorspronkelijke werk is veranderd';
- c. het verspreiden van exemplaren van het Werk, het in het openbaar tonen, op- en uitvoeren en het on-line beschikbaar stellen van het Werk, afzonderlijk en als deel van een Verzamelwerk;
- d. het verspreiden van exemplaren van Afgeleide werken, het in het openbaar te tonen, op- en uitvoeren en het on-line beschikbaar stellen van Afgeleide werken;
- e. het opvragen en hergebruiken van het Werk;
- f. Volledigheidshalve dient te worden vermeld dat:
 - i. Niet voor afstand vatbare heffingsregelingen. in het geval van niet voor afstand vatbare heffingsregelingen (bijvoorbeeld met betrekking tot thuiskopien) de Licentiegever zich het recht voorbehoudt om dergelijke heffingen te innen (al dan niet door middel van een auteursrechtenorganisatie) bij zowel commercieel als niet-commercieel gebruik van het Werk;
 - ii. Voor afstand vatbare heffingsregeling. in het geval van voor afstand vatbare heffingsregelingen (bijvoorbeeld met betrekking tot leenrechten) de Licentiegever afstand doet van het recht om dergelijke heffingen te innen bij zowel commercieel als niet-commercieel gebruik van het Werk;
 - iii. Collectief rechtenbeheer. de Licentiegever afstand doet van het recht om vergoedingen te innen (zelfstandig of, indien de Licentiegever lid is van een auteursrechtenorganisatie, door middel van die organisatie) bij zowel commercieel als niet-commercieel gebruik van het Werk.

De Gebruiker mag deze rechten uitoefenen met behulp van alle thans bekende media, dragers en formats. De Gebruiker is tevens gerechtigd om technische wijzigingen aan te brengen die noodzakelijk zijn om de rechten met behulp van andere media, dragers en formats uit te oefenen. Alle niet uitdrukkelijk verleende rechten zijn hierbij voorbehouden aan de Licentiegever, met inbegrip van maar niet beperkt tot de rechten die in artikel 4(d) worden genoemd. Voor zover de Licentiegever op basis van het nationale recht ter implementatie van de Europese Databankenrichtlijn over uitsluitende rechten beschikt doet de Licentiegever afstand van deze rechten.

4. Beperkingen. De in artikel 3 verleende Licentie is uitdrukkelijk gebonden aan de volgende beperkingen:

a. De Gebruiker mag het Werk uitsluitend verspreiden, in het openbaar tonen, op- of uitvoeren of on-line beschikbaar stellen met inachtneming van de voorwaarden van deze Licentie, en de Gebruiker dient een exemplaar van, of de Uniform Resource Identifier voor, deze Licentie toe te voegen aan elk exemplaar van het Werk dat de Gebruiker verspreidt, in het openbaar toont, op- of uitvoert, of on-line beschikbaar stelt. Het is de Gebruiker niet toegestaan om het Werk onder enige afwijkende voorwaarden aan te bieden waardoor de voorwaarden van deze Licentie dan wel de mogelijkheid van de ontvangers van het Werk om de rechten krachtens deze Licentie uit te oefenen worden beperkt. Het is de Gebruiker niet toegestaan om het Werk in sublicentie te geven. De Gebruiker dient alle vermeldingen die verwijzen naar deze Licentie dan wel naar de uitsluiting van garantie te laten staan. Het is de Gebruiker niet toegestaan om het Werk te verspreiden, in het openbaar te tonen, op- of uit te voeren of on-line beschikbaar te stellen met toepassing van technologische voorzieningen waardoor de voorwaarden van deze Licentie dan wel de mogelijkheid van de ontvangers van het Werk om de rechten krachtens deze Licentie uit te oefenen worden beperkt. Het voorgaande is tevens van toepassing op het Werk dat deel uitmaakt van een Verzamelwerk, maar dat houdt niet in dat het Verzamelwerk, afgezien van het Werk zelf, gebonden is aan de voorwaarden van deze Licentie. Indien de Gebruiker een Verzamelwerk maakt, dient deze, op verzoek van welke Licentiegever ook, de op grond van artikel 4(b) vereiste naamsvermelding uit het Verzamelwerk te verwijderen, voor zover praktisch mogelijk, conform het verzoek. Indien de Gebruiker een Afgeleid werk maakt, dient hij, op verzoek van welke Licentiegever ook, de op grond van artikel 4(b) vereiste naamsvermelding uit het Afgeleide werk te verwijderen, voorzover praktisch mogelijk, conform het verzoek.

b. Indien de Gebruiker het Werk, Afgeleide Werken of Verzamelwerken verspreidt, in het openbaar toont, op- of uitvoert of on-line beschikbaar stelt, dient de Gebruiker, tenzij er sprake is van een verzoek als vermeld in lid 4(a), alle auteursrechtvermeldingen met betrekking tot het Werk te laten staan. Tevens dient de Gebruiker, op een wijze die redelijk is in verhouding tot het gebruikte medium, de naam te vermelden van (i) de Maker (of zijn/haar pseudoniem indien van toepassing) indien deze wordt vermeld; en/of (ii) van (een) andere partij(en) (b.v. sponsor, uitgeverij, tijdschrift)

indien de naamsvermelding van deze partij(en) ("Naamsvermeldingsgerechtigden") in de auteursrechtvermelding of algemene voorwaarden van de Licentiegever of op een andere redelijke wijze verplicht is gesteld door de Maker en/of de Licentiegever; de titel van het Werk indien deze wordt vermeld; voorzover redelijkerwijs toepasbaar de Uniform Resource Identifier, indien aanwezig, waarvan de Licentiegever heeft aangegeven dat deze bij het Werk hoort, tenzij de URI niet verwijst naar de auteursrechtvermeldingen of de licentie-informatie betreffende het Werk; in overeenstemming met artikel 3(b) in geval van een Afgeleid werk, door te verwijzen naar het gebruik van het Werk in het Afgeleide werk (bijvoorbeeld: 'De Franse vertaling van het Werk van de Maker' of 'Scenario gebaseerd op het Werk van de Maker'). De Gebruiker dient op redelijke wijze aan de in dit artikel genoemde vereisten te voldoen; echter, met dien verstande dat, in geval van een Afgeleid werk of een Verzamelwerk, de naamsvermeldingen in ieder geval geplaatst dienen te worden, indien er een naamsvermelding van alle makers van het Afgeleide werk of het Verzamelwerk geplaatst wordt dan als deel van die naamsvermeldingen, en op een wijze die in ieder geval even duidelijk is als de naamsvermeldingen van de overige makers.

Volledigheidshalve dient te worden vermeld dat de Gebruiker uitsluitend gebruik mag maken van de naamsvermelding op de in dit artikel omschreven wijze teneinde te voldoen aan de naamsvermeldingsverplichting en, door gebruikmaking van zijn rechten krachtens deze Licentie, is het de Gebruiker niet toegestaan om op enigerlei wijze de indruk te wekken dat er sprake is van enig verband met, sponsorschap van of goedkeuring van de (toepasselijke) Maker, Licentiegever c.q. Naamsvermeldingsgerechtigden van de Gebruiker of diens gebruik van het Werk, zonder de afzonderlijke, uitdrukkelijke, voorafgaande, schriftelijke toestemming van de Maker, Licentiegever c.q. Naamsvermeldingsgerechtigden.

c. Volledigheidshalve dient te worden vermeld, dat de hierboven vermelde beperkingen (lid 4(a) en lid 4(b)) niet van toepassing zijn op die onderdelen van het Werk die geacht worden te vallen onder de definitie van het 'Werk' zoals vermeld in deze Licentie uitsluitend omdat zij voldoen aan de criteria van het sui generis databankenrecht krachtens het nationale recht ter implementatie van de Europese Databankenrichtlijn.

d. De in artikel 3 verleende rechten moeten worden uitgeoefend met inachtneming van het morele recht van de Maker (en/of de uitvoerende kunstenaar) om zich te verzetten tegen elke misvorming, verminking of andere aantasting van het werk, welke nadeel zou kunnen toebrengen aan de eer of de naam van de Maker (en/of de uitvoerende kunstenaar) of aan zijn waarde in deze hoedanigheid, indien en voor zover de Maker (en/of de uitvoerende kunstenaar) op grond van een op hem van toepassing zijnde wettelijke bepaling geen afstand kan doen van dat morele recht.

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7. Beindiging

a. Deze Licentie en de daarin verleende rechten vervallen automatisch op het moment dat de Gebruiker in strijd handelt met de voorwaarden van deze Licentie. De licenties van natuurlijke personen of rechtspersonen die Verzamelwerken hebben ontvangen van de Gebruiker krachtens deze Licentie blijven echter in stand zolang dergelijke natuurlijke personen of rechtspersonen zich houden aan de voorwaarden van die licenties. Na de beindiging van deze Licentie blijven artikelen 1, 2, 5, 6, 7 en 8 onverminderd van kracht.

b. Met inachtneming van de hierboven vermelde voorwaarden wordt de Licentie verleend voor de duur van de toepasselijke intellectuele eigendomsrechten op het Werk. De Licentiegever behoudt zich desalniettemin te allen tijde het recht voor om het Werk volgens gewijzigde licentievoorwaarden te verspreiden of om het Werk niet langer te verspreiden; met dien verstande dat een dergelijk besluit niet de intrekking van deze Licentie (of enig andere licentie die volgens de voorwaarden

van deze Licentie (verplicht) is verleend) tot gevolg heeft, en deze Licentie onverminderd van kracht blijft tenzij zij op de in lid a omschreven wijze wordt beindigd.

8. Diversen

a. Elke keer dat de Gebruiker het Werk of een Verzamelwerk verspreidt of on-line beschikbaar stelt, biedt de Licentiegever de ontvanger een licentie op het Werk aan volgens de algemene voorwaarden van deze Licentie.

b. Elke keer dat de Gebruiker een Afgeleid werk verspreidt of on-line beschikbaar stelt, biedt de Licentiegever de ontvanger een licentie op het oorspronkelijke werk aan volgens de algemene voorwaarden van deze Licentie.

c. Indien enige bepaling van deze Licentie nietig of niet rechtens afdwingbaar is, zullen de overige voorwaarden van deze Licentie volledig van kracht blijven. De nietige of niet-afdwingbare bepaling zal, zonder tussenkomst van de partijen, worden vervangen door een geldige en afdwingbare bepaling waarbij het doel en de strekking van de oorspronkelijke bepaling zoveel mogelijk in acht worden genomen.

d. Een verklaring van afstand van in deze Licentie verleende rechten of een wijziging van de voorwaarden van deze Licentie dient schriftelijk te geschieden en getekend te zijn door de partij die verantwoordelijk is voor de verklaring van afstand respectievelijk de partij wiens toestemming voor de wijziging is vereist.

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```
/// The datatype used for the ioctl number
```

```
#[doc(hidden)]
```

```
#[cfg(not(solarish))]
```

```
pub type ioctl_num_type = ::libc::c_ulong;
```

```
#[doc(hidden)]
```

```
#[cfg(solarish)]
```

```
pub type ioctl_num_type = ::libc::c_int;
```

```
/// The datatype used for the 3rd argument
```

```
#[doc(hidden)]
```

```
pub type ioctl_param_type = ::libc::c_int;
```

```
mod consts {
```

```
    use crate::sys::ioctl::ioctl_num_type;
```

```
    #[doc(hidden)]
```

```
    pub const VOID: ioctl_num_type = 0x2000_0000;
```

```
    #[doc(hidden)]
```

```
    pub const OUT: ioctl_num_type = 0x4000_0000;
```

```
    #[doc(hidden)]
```

```
    #[allow(overflowing_literals)]
```

```
    pub const IN: ioctl_num_type = 0x8000_0000;
```

```
    #[doc(hidden)]
```

```
    pub const INOUT: ioctl_num_type = IN | OUT;
```

```
    #[doc(hidden)]
```

```
    pub const IOCPARM_MASK: ioctl_num_type = 0x1fff;
```

```

}

pub use self::consts::*;

#[macro_export]
#[doc(hidden)]
macro_rules! ioc {
    ($inout:expr, $group:expr, $num:expr, $len:expr) => {
        $inout
        | (($len as $crate::sys::ioctl::ioctl_num_type
            & $crate::sys::ioctl::IOCPARM_MASK)

            << 16)
        | (($group as $crate::sys::ioctl::ioctl_num_type) << 8)
        | ($num as $crate::sys::ioctl::ioctl_num_type)
    };
}

/// Generate an ioctl request code for a command that passes no data.
///
/// This is equivalent to the `_IO()` macro exposed by the C ioctl API.
///
/// You should only use this macro directly if the `ioctl` you're working
/// with is "bad" and you cannot use `ioctl_none!()` directly.
///
/// # Example
///
/// ```
/// # #[macro_use] extern crate nix;
/// const KVMIO: u8 = 0xAE;
/// ioctl_write_int_bad!(kvm_create_vm, request_code_none!(KVMIO, 0x03));
/// # fn main() {}
/// ```
#[macro_export(local_inner_macros)]
macro_rules! request_code_none {
    ($g:expr, $n:expr) => {
        ioc!($crate::sys::ioctl::VOID, $g, $n, 0)
    };
}

/// Generate an ioctl request code for a command that passes an integer
///
/// This is equivalent to the `_IOWINT()` macro exposed by the C ioctl API.
///
/// You should only use this macro directly if the
/// `ioctl` you're working
/// with is "bad" and you cannot use `ioctl_write_int!()` directly.
#[macro_export(local_inner_macros)]

```

```

macro_rules! request_code_write_int {
    ($g:expr, $n:expr) => {
        ioc!(
            $crate::sys::ioctl::VOID,
            $g,
            $n,
            ::std::mem::size_of::<$crate::libc::c_int>()
        )
    };
}

/// Generate an ioctl request code for a command that reads.
///
/// This is equivalent to the `_IOR()` macro exposed by the C ioctl API.
///
/// You should only use this macro directly if the `ioctl` you're working
/// with is "bad" and you cannot use `ioctl_read!()` directly.
///
/// The read/write direction is relative to userland, so this
/// command would be userland is reading and the kernel is
/// writing.
#[macro_export(local_inner_macros)]
macro_rules! request_code_read {
    ($g:expr, $n:expr, $len:expr) => {
        ioc!($crate::sys::ioctl::OUT, $g, $n, $len)
    };
}

/// Generate an ioctl request code for a command that writes.
///
/// This is equivalent to the `_IOW()` macro exposed by the C ioctl API.
///
/// You should only use this macro directly if the `ioctl` you're working
/// with is "bad" and you cannot use `ioctl_write!()` directly.
///
/// The read/write direction is relative to userland, so this
/// command would be userland is writing and the kernel is
/// reading.
#[macro_export(local_inner_macros)]
macro_rules! request_code_write {
    ($g:expr, $n:expr, $len:expr) => {
        ioc!($crate::sys::ioctl::IN, $g, $n, $len)
    };
}

/// Generate an ioctl request code for a command that reads and writes.
///

```

```

/// This is equivalent to the `_IOWR()` macro exposed by the C ioctl API.
///
/// You should only use this macro directly if the `ioctl` you're working
/// with is "bad" and you cannot use `ioctl_readwrite!()` directly.
#[macro_export(local_inner_macros)]
macro_rules! request_code_readwrite {
    ($g:expr, $n:expr, $len:expr) => {
        ioc!($crate::sys::ioctl::INOUT, $g, $n, $len)
    }
};
}
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```

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```
use crate::errno::Errno;
use crate::sys::signal::Signal;
use crate::unistd::Pid;
use crate::Result;
use cfg_if::cfg_if;
```

```

use libc::{self, c_int};
use std::ptr;

pub type RequestType = c_int;

cfg_if! {
    if #[cfg(any(freebsdlike, apple_targets, target_os = "openbsd"))] {
        #[doc(hidden)]
        pub type AddressType = *mut ::libc::c_char;
    } else {
        #[doc(hidden)]
        pub type AddressType = *mut ::libc::c_void;
    }
}

libc_enum! {
    #[repr(i32)]
    /// Ptrace Request enum defining the action to be taken.
    #[non_exhaustive]
    pub enum Request {
        PT_TRACE_ME,
        PT_READ_I,
        PT_READ_D,
        #[cfg(apple_targets)]
        PT_READ_U,
        PT_WRITE_I,
        PT_WRITE_D,
        #[cfg(apple_targets)]
        PT_WRITE_U,
        PT_CONTINUE,
        PT_KILL,
        #[cfg(any(any(freebsdlike, apple_targets),
            all(target_os = "openbsd", target_arch = "x86_64"),
            all(target_os = "netbsd", any(target_arch = "x86_64",
                target_arch = "powerpc"))))]
        PT_STEP,
        PT_ATTACH,
        PT_DETACH,
        #[cfg(apple_targets)]
        PT_SIGEXC,
        #[cfg(apple_targets)]
        PT_THUPDATE,
        #[cfg(apple_targets)]
        PT_ATTACHEXC
    }
}

unsafe fn ptrace_other(

```

```

request: Request,
pid: Pid,
addr: AddressType,
data: c_int,
) -> Result<c_int> {
  unsafe {
    Errno::result(libc::ptrace(
      request as RequestType,
      libc::pid_t::from(pid),
      addr,
      data,
    ))
    .map(|_| 0)
  }
}

/// Sets the process as traceable, as with `ptrace(PT_TRACEME, ...)`
///
/// Indicates that this process is to be traced by its parent.
/// This is the only ptrace request to be issued by the tracee.
pub fn traceme() -> Result<()> {
  unsafe {
    ptrace_other(Request::PT_TRACE_ME, Pid::from_raw(0), ptr::null_mut(), 0)
    .map(drop)
  }
}

/// Attach to a running
process, as with `ptrace(PT_ATTACH, ...)`
///
/// Attaches to the process specified by `pid`, making it a tracee of the calling process.
pub fn attach(pid: Pid) -> Result<()> {
  unsafe {
    ptrace_other(Request::PT_ATTACH, pid, ptr::null_mut(), 0).map(drop)
  }
}

/// Detaches the current running process, as with `ptrace(PT_DETACH, ...)`
///
/// Detaches from the process specified by `pid` allowing it to run freely, optionally delivering a
/// signal specified by `sig`.
pub fn detach<T: Into<Option<Signal>>>>(pid: Pid, sig: T) -> Result<()> {
  let data = match sig.into() {
    Some(s) => s as c_int,
    None => 0,
  };
  unsafe {
    ptrace_other(Request::PT_DETACH, pid, ptr::null_mut(), data).map(drop)
  }
}

```

```

    }
}

/// Restart the stopped tracee process, as with `ptrace(PTRACE_CONT, ...)`
///
/// Continues the execution of the process with PID `pid`, optionally
/// delivering a signal specified by `sig`.
pub fn cont<T: Into<Option<Signal>>>(pid: Pid, sig: T)
-> Result<()> {
    let data = match sig.into() {
        Some(s) => s as c_int,
        None => 0,
    };
    unsafe {
        // Ignore the useless return value
        ptrace_other(Request::PT_CONTINUE, pid, 1 as AddressType, data)
            .map(drop)
    }
}

/// Issues a kill request as with `ptrace(PT_KILL, ...)`
///
/// This request is equivalent to `ptrace(PT_CONTINUE, ..., SIGKILL);`
pub fn kill(pid: Pid) -> Result<()> {
    unsafe {
        ptrace_other(Request::PT_KILL, pid, 0 as AddressType, 0).map(drop)
    }
}

/// Move the stopped tracee process forward by a single step as with
/// `ptrace(PT_STEP, ...)`
///
/// Advances the execution of the process with PID `pid` by a single step optionally delivering a
/// signal specified by `sig`.
///
/// # Example
/// ```rust
/// use nix::sys::ptrace::step;
/// use nix::unistd::Pid;
/// use nix::sys::signal::Signal;
/// use nix::sys::wait::*;
/// // If a process changes state to the stopped state because of a SIGUSR1
/// // signal,
/// this will step the process forward and forward the user
/// // signal to the stopped process
/// match waitpid(Pid::from_raw(-1), None) {
///     Ok(WaitStatus::Stopped(pid, Signal::SIGUSR1)) => {
///         let _ = step(pid, Signal::SIGUSR1);

```

```

/// }
/// _ => {},
/// }
/// ```
#[cfg(any(
    any(freebsdlike, apple_targets),
    all(target_os = "openbsd", target_arch = "x86_64"),
    all(
        target_os = "netbsd",
        any(target_arch = "x86_64", target_arch = "powerpc")
    )
))]
pub fn step<T: Into<Option<Signal>>>(pid: Pid, sig: T) -> Result<> {
    let data = match sig.into() {
        Some(s) => s as c_int,
        None => 0,
    };
    unsafe {
        ptrace_other(Request::PT_STEP, pid, ptr::null_mut(), data).map(drop)
    }
}

/// Reads a word from a processes memory at the given address
/// Technically, ptrace doesn't dereference the pointer. It passes it directly
/// to the kernel.
#[allow(clippy::not_unsafe_ptr_arg_deref)]
pub fn read(pid: Pid, addr: AddressType)
-> Result<c_int> {
    unsafe {
        // Traditionally there was a difference between reading data or
        // instruction memory but not in modern systems.
        ptrace_other(Request::PT_READ_D, pid, addr, 0)
    }
}

/// Writes a word into the processes memory at the given address
/// Technically, ptrace doesn't dereference the pointer. It passes it directly
/// to the kernel.
#[allow(clippy::not_unsafe_ptr_arg_deref)]
pub fn write(pid: Pid, addr: AddressType, data: c_int) -> Result<> {
    unsafe { ptrace_other(Request::PT_WRITE_D, pid, addr, data).map(drop) }
}

```

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1.178 data-encoding 2.9.0

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```

```

"    for i in range(1,30):\n",
"        x_new = A@x\n",
"        lambda_ = np.linalg.norm(x_new,np.inf)\n",
"        lambdas_list.append(lambda_)\n",
"        x_new = x_new / lambda_\n",
"        print("Iteration: {}".format(i))\n",
"        print("Lambda: {}".format(lambda_))\n",
"        print("x: {}".format(np.ravel(x_new)))\n",
"        if (np.linalg.norm(x - x_new) < epsilon):\n",
"            print("Converged!")\n",
"            break\n",
"        x = x_new\n",
"    return lambdas_list[-1],x"
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"Lambda: 0.9992544491299302\n",
"x: [0.12498111 0.25004814 0.50037305 1. 0.87550707]\n",
"Iteration: 18\n",
"Lambda: 1.0006003363897298\n",
"x: [0.12501821 0.24992434 0.49970001 1. 0.87461634]\n",
"Iteration: 19\n",
"Lambda: 0.999541341005989\n",
"x: [0.12498233 0.2500579 0.50022943 1. 0.87525078]\n",
"Iteration: 20\n",
"Lambda: 1.0003081420956892\n",
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"Iteration: 21\n",
"Lambda:
0.9998071806943936\n",
"x: [0.12498559 0.25002854 0.50009643 1. 0.87509289]\n",
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"Lambda: 1.0001169978754345\n",

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"Iteration: 24\n",
"Lambda: 1.0000301762730124\n",
"x: [0.12500427 0.24999392 0.49998491 1.      0.87499258]\n",
"Iteration: 25\n",
"Lambda: 0.9999888123818477\n",
"x: [0.12499763 0.2500033  0.50000559 1.      0.87499994]\n",
"Iteration: 26\n",
"Lambda: 1.0000013348327628\n",
"x: [0.12500123 0.24999869 0.49999933 1.      0.87500353]\n",
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"Eigenvalue: 1.0000013348327628\n",
"Eigenvector: [0.50000636 1.      ]\n",
"\n"
]
}
],
"source": [
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"      [1,0,0.25,0,0],\n",
"      [0,0,0,0.5,0],\n",
"      [0,0,0.25,0,1],\n",
"      [0,1,0.25,0.5,0]])\n",
"\n",
"lambdas,r = power_method(matrix,0.00001,True)\n",
"print(\"Eigenvalue: {}\\nEigenvector: {}\\n\".format(lambdas,np.ravel(x)))"
]
}
],
"metadata": {
"kernelpec": {
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},
"language_info": {
"codemirror_mode": {
"name": "ipython",
"version": 3
},
"file_extension": ".py",
"mimetype": "text/x-python",
"name": "python",
"nbconvert_exporter": "python",
"pygments_lexer": "ipython3",

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"version": "3.9.12"  
}  
,  
"nbformat": 4,  
"nbformat_minor": 5  
}
```

Found in path(s):

* /numerical-algorithms-main-zip/Numerical-Algorithms-main/.ipynb_checkpoints/Power method and Page Rank-checkpoint.ipynb

1.180 uuid 1.17.0

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1.181 http-body-util 0.1.3

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1.182 matchers 0.2.0

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1.183 which 8.0.0

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1.184 console 0.16.1

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1.185 slab 0.4.11

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1.186 regex 1.11.2

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1.187 html-escape 0.2.13

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1.188 nix 0.30.1

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```
/// The datatype used for the ioctl number
#[doc(hidden)]
#[cfg(not(solarish))]
pub type ioctl_num_type = ::libc::c_ulong;

#[doc(hidden)]
#[cfg(solarish)]
pub type ioctl_num_type = ::libc::c_int;

/// The datatype used for the 3rd argument
#[doc(hidden)]
pub type ioctl_param_type = ::libc::c_int;

mod consts {
    use crate::sys::ioctl::ioctl_num_type;
    #[doc(hidden)]
    pub const VOID: ioctl_num_type = 0x2000_0000;
    #[doc(hidden)]
    pub const OUT: ioctl_num_type = 0x4000_0000;
    #[doc(hidden)]
    #[allow(overflowing_literals)]
    pub const IN: ioctl_num_type = 0x8000_0000;
    #[doc(hidden)]
    pub const INOUT: ioctl_num_type = IN | OUT;
    #[doc(hidden)]
    pub const IOCPARM_MASK: ioctl_num_type = 0x1fff;
}

pub use self::consts::*;
```

```

#[macro_export]
#[doc(hidden)]
macro_rules! ioc {
    ($inout:expr, $group:expr, $num:expr, $len:expr) => {
        $inout
        | (($len as $crate::sys::ioctl::ioctl_num_type
           & $crate::sys::ioctl::IOCPARM_MASK)

           << 16)
        | (($group as $crate::sys::ioctl::ioctl_num_type) << 8)
        | ($num as $crate::sys::ioctl::ioctl_num_type)
    };
}

/// Generate an ioctl request code for a command that passes no data.
///
/// This is equivalent to the `_IO()` macro exposed by the C ioctl API.
///
/// You should only use this macro directly if the `ioctl` you're working
/// with is "bad" and you cannot use `ioctl_none!()` directly.
///
/// # Example
///
/// ```
/// # #[macro_use] extern crate nix;
/// const KVMIO: u8 = 0xAE;
/// ioctl_write_int_bad!(kvm_create_vm, request_code_none!(KVMIO, 0x03));
/// # fn main() {}
/// ```
#[macro_export(local_inner_macros)]
macro_rules! request_code_none {
    ($g:expr, $n:expr) => {
        ioc!($crate::sys::ioctl::VOID, $g, $n, 0)
    };
}

/// Generate an ioctl request code for a command that passes an integer
///
/// This is equivalent to the `_IOWINT()` macro exposed by the C ioctl API.
///
/// You should only use this macro directly if the
/// `ioctl` you're working
/// with is "bad" and you cannot use `ioctl_write_int!()` directly.
#[macro_export(local_inner_macros)]
macro_rules! request_code_write_int {
    ($g:expr, $n:expr) => {
        ioc!(

```

```

        $crate::sys::ioctl::VOID,
        $g,
        $n,
        ::std::mem::size_of::<$crate::libc::c_int>()
    )
};
}

/// Generate an ioctl request code for a command that reads.
///
/// This is equivalent to the `_IOR()` macro exposed by the C ioctl API.
///
/// You should only use this macro directly if the `ioctl` you're working
/// with is "bad" and you cannot use `ioctl_read!()` directly.
///
/// The read/write direction is relative to userland, so this
/// command would be userland is reading and the kernel is
/// writing.
#[macro_export(local_inner_macros)]
macro_rules! request_code_read {
    ($g:expr, $n:expr, $len:expr) => {
        ioc!($crate::sys::ioctl::OUT, $g, $n, $len)
    };
}

/// Generate an ioctl request code for a command that writes.
///
/// This is equivalent to the `_IOW()` macro exposed by the C ioctl API.
///
/// You should only use this macro directly if the `ioctl` you're working
/// with is "bad" and you cannot use `ioctl_write!()` directly.
///
/// The read/write direction is relative to userland, so this
/// command would be userland is writing and the kernel is
/// reading.
#[macro_export(local_inner_macros)]
macro_rules! request_code_write {
    ($g:expr, $n:expr, $len:expr) => {
        ioc!($crate::sys::ioctl::IN, $g, $n, $len)
    };
}

/// Generate an ioctl request code for a command that reads and writes.
///
/// This is equivalent to the `_IOWR()` macro exposed by the C ioctl API.
///
/// You should only use this macro directly if the `ioctl` you're working

```

```

/// with is "bad" and you cannot use `ioctl_readwrite!()` directly.
#[macro_export(local_inner_macros)]
macro_rules! request_code_readwrite {
    ($g:expr, $n:expr, $len:expr) => {
        ioc!($crate::sys::ioctl::INOUT, $g, $n, $len)
    }
};
}
use crate::errno::Errno;
use crate::sys::signal::Signal;
use crate::unistd::Pid;
use crate::Result;
use cfg_if::cfg_if;
use libc::{self, c_int};
use std::ptr;

pub type RequestType = c_int;

cfg_if! {
    if #[cfg(any(freebsdlike, apple_targets, target_os = "openbsd"))] {
        #[doc(hidden)]
        pub type AddressType = *mut ::libc::c_char;
    } else {
        #[doc(hidden)]
        pub type AddressType = *mut ::libc::c_void;
    }
}

libc_enum! {
    #[repr(i32)]
    /// Ptrace Request enum defining the action to be taken.
    #[non_exhaustive]
    pub enum Request {
        PT_TRACE_ME,
        PT_READ_I,
        PT_READ_D,
        #[cfg(apple_targets)]
        PT_READ_U,
        PT_WRITE_I,
        PT_WRITE_D,
        #[cfg(apple_targets)]
        PT_WRITE_U,
        PT_CONTINUE,
        PT_KILL,
        #[cfg(any(any(freebsdlike, apple_targets),
            all(target_os = "openbsd", target_arch = "x86_64"),
            all(target_os = "netbsd", any(target_arch = "x86_64",

```

```

        target_arch = "powerpc")))]

    PT_STEP,
    PT_ATTACH,
    PT_DETACH,
    #[cfg(apple_targets)]
    PT_SIGEXC,
    #[cfg(apple_targets)]
    PT_THUPDATE,
    #[cfg(apple_targets)]
    PT_ATTACHEXC
}
}

unsafe fn ptrace_other(
    request: Request,
    pid: Pid,
    addr: AddressType,
    data: c_int,
) -> Result<c_int> {
    unsafe {
        Errno::result(libc::ptrace(
            request as RequestType,
            libc::pid_t::from(pid),
            addr,
            data,
        ))
        .map(|_| 0)
    }
}

/// Sets the process as traceable, as with `ptrace(PT_TRACE_ME, ...)`
///
/// Indicates that this process is to be traced by its parent.
/// This is the only ptrace request to be issued by the tracee.
pub fn traceme() -> Result<()> {
    unsafe {
        ptrace_other(Request::PT_TRACE_ME, Pid::from_raw(0), ptr::null_mut(), 0)
            .map(drop)
    }
}

/// Attach to a running
/// process, as with `ptrace(PT_ATTACH, ...)`
///
/// Attaches to the process specified by `pid`, making it a tracee of the calling process.
pub fn attach(pid: Pid) -> Result<()> {
    unsafe {
        ptrace_other(Request::PT_ATTACH, pid, ptr::null_mut(), 0).map(drop)
    }
}

```

```

    }
}

/// Detaches the current running process, as with `ptrace(PT_DETACH, ...)`
///
/// Detaches from the process specified by `pid` allowing it to run freely, optionally delivering a
/// signal specified by `sig`.
pub fn detach<T: Into<Option<Signal>>>>(pid: Pid, sig: T) -> Result<()> {
    let data = match sig.into() {
        Some(s) => s as c_int,
        None => 0,
    };
    unsafe {
        ptrace_other(Request::PT_DETACH, pid, ptr::null_mut(), data).map(drop)
    }
}

/// Restart the stopped tracee process, as with `ptrace(PTRACE_CONT, ...)`
///
/// Continues the execution of the process with PID `pid`, optionally
/// delivering a signal specified by `sig`.
pub fn cont<T: Into<Option<Signal>>>>(pid: Pid, sig: T)
-> Result<()> {
    let data = match sig.into() {
        Some(s) => s as c_int,
        None => 0,
    };
    unsafe {
        // Ignore the useless return value
        ptrace_other(Request::PT_CONTINUE, pid, 1 as AddressType, data)
            .map(drop)
    }
}

/// Issues a kill request as with `ptrace(PT_KILL, ...)`
///
/// This request is equivalent to `ptrace(PT_CONTINUE, ..., SIGKILL);`
pub fn kill(pid: Pid) -> Result<()> {
    unsafe {
        ptrace_other(Request::PT_KILL, pid, 0 as AddressType, 0).map(drop)
    }
}

/// Move the stopped tracee process forward by a single step as with
/// `ptrace(PT_STEP, ...)`
///
/// Advances the execution of the process with PID `pid` by a single step optionally delivering a
/// signal specified by `sig`.

```

```

///
/// # Example
/// ```rust
/// use nix::sys::ptrace::step;
/// use nix::unistd::Pid;
/// use nix::sys::signal::Signal;
/// use nix::sys::wait::*;
/// // If a process changes state to the stopped state because of a SIGUSR1
/// // signal,
/// this will step the process forward and forward the user
/// // signal to the stopped process
/// match waitpid(Pid::from_raw(-1), None) {
///     Ok(WaitStatus::Stopped(pid, Signal::SIGUSR1)) => {
///         let _ = step(pid, Signal::SIGUSR1);
///     }
///     _ => {},
/// }
/// ```
#[cfg(any(
    any(freebsdlike, apple_targets),
    all(target_os = "openbsd", target_arch = "x86_64"),
    all(
        target_os = "netbsd",
        any(target_arch = "x86_64", target_arch = "powerpc")
    )
))]
pub fn step<T: Into<Option<Signal>>>(pid: Pid, sig: T) -> Result<> {
    let data = match sig.into() {
        Some(s) => s as c_int,
        None => 0,
    };
    unsafe {
        ptrace_other(Request::PT_STEP, pid, ptr::null_mut(), data).map(drop)
    }
}

/// Reads a word from a processes memory at the given address
/// Technically, ptrace doesn't dereference the pointer. It passes it directly
/// to the kernel.
#[allow(clippy::not_unsafe_ptr_arg_deref)]
pub fn read(pid: Pid, addr: AddressType)
-> Result<c_int> {
    unsafe {
        // Traditionally there was a difference between reading data or
        // instruction memory but not in modern systems.
        ptrace_other(Request::PT_READ_D, pid, addr, 0)
    }
}

```



```

/// Writes a word into the processes memory at the given address
// Technically, ptrace doesn't dereference the pointer. It passes it directly
// to the kernel.
#[allow(clippy::not_unsafe_ptr_arg_deref)]
pub fn write(pid: Pid, addr: AddressType, data: c_int) -> Result<> {
    unsafe { ptrace_other(Request::PT_WRITE_D, pid, addr, data).map(drop) }
}

```

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1.189 xz2 0.1.7

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1.190 atomic-waker 1.1.2

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1.191 dotenvy 0.15.7

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1.192 globwalk 0.9.1

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1.193 bytes 1.10.1

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1.194 Izma-rs 0.3.0

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1.195 charset 0.1.5

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1.196 async-channel 2.5.0

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```
#!/ Freebsd and Netbsd xattr support.
```

```
use libc::{c_int, c_void, size_t, EPERM};
use std::ffi::{CString, OsStr, OsString};
use std::io;
use std::mem;
use std::os::unix::ffi::{OsStrExt, OsStringExt};
use std::os::unix::io::{AsRawFd, BorrowedFd};
use std::path::Path;
use std::ptr;
```

```

use libc::{
    extattr_delete_fd, extattr_delete_file, extattr_delete_link, extattr_get_fd, extattr_get_file,
    extattr_get_link, extattr_list_fd, extattr_list_file, extattr_list_link, extattr_set_fd,
    extattr_set_file, extattr_set_link, EXTATTR_NAMESPACE_SYSTEM, EXTATTR_NAMESPACE_USER,
};

use crate::util::allocate_loop;

pub const ENOATTR: i32 = libc::ENOATTR;
pub const ERANGE: i32 = libc::ERANGE;

const EXTATTR_NAMESPACE_USER_STRING: &str = "user";
const EXTATTR_NAMESPACE_SYSTEM_STRING: &str = "system";
const EXTATTR_NAMESPACE_NAMES: [&str; 3] = [
    "empty",
    EXTATTR_NAMESPACE_USER_STRING,
    EXTATTR_NAMESPACE_SYSTEM_STRING,
];

fn path_to_c(path: &Path) -> io::Result<CString> {
    match CString::new(path.as_os_str().as_bytes())
    {
        Ok(name) => Ok(name),
        Err(_) => Err(io::Error::new(io::ErrorKind::NotFound, "file not found")),
    }
}

#[inline]
fn slice_parts(buf: &mut [u8]) -> (*mut c_void, size_t) {
    if buf.is_empty() {
        (ptr::null_mut(), 0)
    } else {
        (buf.as_mut_ptr().cast(), buf.len() as size_t)
    }
}

/// An iterator over a set of extended attributes names.
#[derive(Default)]
pub struct XAttrs {
    user_attrs: Box<[u8]>,
    system_attrs: Box<[u8]>,
    offset: usize,
}

impl Clone for XAttrs {
    fn clone(&self) -> Self {
        XAttrs {
            user_attrs: Vec::from(&*self.user_attrs).into_boxed_slice(),

```



```

        system_attrs: Vec::from(&*self.system_attrs).into_boxed_slice(),
        offset: self.offset,
    }
}

fn clone_from(&mut self, other: &XAttrs) {
    self.offset = other.offset;

    let mut data = mem::replace(&mut self.user_attrs, Box::new([]).into_vec());
    data.extend(other.user_attrs.iter().cloned());
    self.user_attrs = data.into_boxed_slice();

    data = mem::replace(&mut self.system_attrs, Box::new([]).into_vec());
    data.extend(other.system_attrs.iter().cloned());
    self.system_attrs = data.into_boxed_slice();
}

}

impl Iterator for XAttrs {
    type Item = OsString;
    fn next(&mut self) -> Option<OsString> {
        if self.user_attrs.is_empty() && self.system_attrs.is_empty() {
            return None;
        }

        if self.offset == self.user_attrs.len() + self.system_attrs.len() {
            return None;
        }

        let data = if self.offset < self.system_attrs.len() {
            &self.system_attrs[self.offset..]
        } else {
            &self.user_attrs[self.offset - self.system_attrs.len()..]
        };

        let siz = data[0] as usize;

        self.offset += siz + 1;
        if self.offset < self.system_attrs.len() {
            Some(prefix_namespace(
                OsStr::from_bytes(&data[1..siz
+ 1])),
                EXTATTR_NAMESPACE_SYSTEM,
            ))
        } else {
            Some(prefix_namespace(
                OsStr::from_bytes(&data[1..siz + 1]),
                EXTATTR_NAMESPACE_USER,
            ))
        }
    }
}

```

```

    ))
  }
}

fn size_hint(&self) -> (usize, Option<usize>) {
  if self.user_attrs.len() + self.system_attrs.len() == self.offset {
    (0, Some(0))
  } else {
    (1, None)
  }
}
}

// This could use libc::extattr_string_to_namespace, but it's awkward because
// that requires nul-terminated strings, which Rust's std is loathe to provide.
fn name_to_ns(name: &OsStr) -> io::Result<(c_int, CString)> {
  let mut groups = name.as_bytes().splitn(2, |&b| b == b'.').take(2);
  let nsname = match groups.next() {
    Some(s) => s,
    None => {
      return Err(io::Error::new(
        io::ErrorKind::InvalidInput,
        "couldn't find namespace",
      ))
    }
  };

  let propname
= match groups.next() {
    Some(s) => s,
    None => {
      return Err(io::Error::new(
        io::ErrorKind::InvalidInput,
        "couldn't find attribute",
      ))
    }
  };

  let ns_int = match EXTATTR_NAMESPACE_NAMES
    .iter()
    .position(|&s| s.as_bytes() == nsname)
  {
    Some(i) => i,
    None => {
      return Err(io::Error::new(
        io::ErrorKind::InvalidInput,
        "no matching namespace",
      ))
    }
  }
}

```

```

    }
};

Ok((ns_int as c_int, CString::new(propname?))
}

fn prefix_namespace(attr: &OsStr, ns: c_int) -> OsString {
    let nsname = EXTATTR_NAMESPACE_NAMES[ns as usize];
    let mut v = Vec::with_capacity(nsname.as_bytes().len() + attr.as_bytes().len() + 1);
    v.extend(nsname.as_bytes());
    v.extend("." as_bytes());
    v.extend(attr.as_bytes());
    OsString::from_vec(v)
}

fn cvt(res: libc::ssize_t) -> io::Result<usize> {
    if res < 0 {
        Err(io::Error::last_os_error())
    } else {
        Ok(res as usize)
    }
}

pub fn get_fd(fd: BorrowedFd<'_>, name: &OsStr) -> io::Result<Vec<u8>> {
    let (ns, name) = name_to_ns(name)?;
    unsafe {
        allocate_loop(|buf| {
            let (ptr, len) = slice_parts(buf);
            cvt(extattr_get_fd(fd.as_raw_fd(), ns, name.as_ptr(), ptr, len))
        })
    }
}

pub fn set_fd(fd: BorrowedFd<'_>, name: &OsStr, value: &[u8]) -> io::Result<()> {
    let (ns, name) = name_to_ns(name)?;
    let ret = unsafe {
        extattr_set_fd(
            fd.as_raw_fd(),
            ns,
            name.as_ptr(),
            value.as_ptr() as *const c_void,
            value.len() as size_t,
        )
    };
    if ret == -1 {
        Err(io::Error::last_os_error())
    } else {
        Ok(())
    }
}

```

```

    }
}

pub fn remove_fd(fd: BorrowedFd<'_>, name: &OsStr) -> io::Result<()> {
    let (ns, name) = name_to_ns(name)?;
    let ret = unsafe { extattr_delete_fd(fd.as_raw_fd(), ns, name.as_ptr()) };

    if ret != 0 {
        Err(io::Error::last_os_error())
    } else {
        Ok(())
    }
}

pub fn list_fd(fd: BorrowedFd<'_>) -> io::Result<XAttrs> {
    let sysvec = unsafe {
        let res = allocate_loop(|buf| {
            let (ptr, len) = slice_parts(buf);
            cvt(extattr_list_fd(
                fd.as_raw_fd(),
                EXTATTR_NAMESPACE_SYSTEM,
                ptr,
                len,
            ))
        });
        // On FreeBSD, system attributes require root privileges to view. However,
        // to mimic the behavior of listxattr in linux and osx, we need to query
        // them anyway and return empty results if we get EPERM
        match res {
            Ok(v) => v,
            Err(err) => {
                if err.raw_os_error() == Some(EPERM) {
                    Vec::new()
                } else {
                    return Err(err);
                }
            }
        }
    };

    let uservec = unsafe {
        let res = allocate_loop(|buf|
    {
        let (ptr, len) = slice_parts(buf);
        cvt(extattr_list_fd(
            fd.as_raw_fd(),
            EXTATTR_NAMESPACE_USER,
            ptr,

```

```

        len,
    ))
});
match res {
    Ok(v) => v,
    Err(err) => return Err(err),
}
};

Ok(XAttrs {
    system_attrs: sysvec.into_boxed_slice(),
    user_attrs: uservec.into_boxed_slice(),
    offset: 0,
})
}

pub fn get_path(path: &Path, name: &OsStr, deref: bool) -> io::Result<Vec<u8>> {
    let (ns, name) = name_to_ns(name)?;
    let path = path_to_c(path)?;
    let extattr_get_func = if deref {
        extattr_get_file
    } else {
        extattr_get_link
    };
    unsafe {
        allocate_loop(|buf| {
            let (ptr, len) = slice_parts(buf);
            cvt(extattr_get_func(path.as_ptr(), ns, name.as_ptr(), ptr, len))
        })
    }
}

pub fn set_path(path: &Path, name: &OsStr, value: &[u8], deref: bool) -> io::Result<()>
{
    let (ns, name) = name_to_ns(name)?;
    let path = path_to_c(path)?;
    let extattr_set_func = if deref {
        extattr_set_file
    } else {
        extattr_set_link
    };
    let ret = unsafe {
        extattr_set_func(
            path.as_ptr(),
            ns,
            name.as_ptr(),
            value.as_ptr() as *const c_void,
            value.len() as size_t,
        )
    };
    if ret != 0 {
        return Err(errno::Errno(ret).into());
    }
}

```

```

    )
};
if ret == -1 {
    Err(io::Error::last_os_error())
} else {
    Ok(())
}
}

pub fn remove_path(path: &Path, name: &OsStr, deref: bool) -> io::Result<()> {
    let (ns, name) = name_to_ns(name)?;
    let path = path_to_c(path)?;
    let extattr_delete_func = if deref {
        extattr_delete_file
    } else {
        extattr_delete_link
    };
    let ret = unsafe { extattr_delete_func(path.as_ptr(), ns, name.as_ptr()) };
    if ret != 0 {
        Err(io::Error::last_os_error())
    } else {
        Ok(())
    }
}

pub fn list_path(path: &Path, deref: bool) -> io::Result<XAttrs>
{
    let path = path_to_c(path)?;
    let extattr_list_func = if deref {
        extattr_list_file
    } else {
        extattr_list_link
    };
    let sysvec = unsafe {
        let res = allocate_loop(|buf| {
            let (ptr, len) = slice_parts(buf);
            cvt(extattr_list_func(
                path.as_ptr(),
                EXTATTR_NAMESPACE_SYSTEM,
                ptr,
                len,
            ))
        });
    };
    // On FreeBSD, system attributes require root privileges to view. However,
    // to mimic the behavior of listxattr in linux and osx, we need to query
    // them anyway and return empty results if we get EPERM
    match res {
        Ok(v) => v,
    }
}

```

```

Err(err) => {
    if err.raw_os_error() == Some(EPERM) {
        Vec::new()
    } else {
        return Err(err);
    }
}
};

```

```

let uservec = unsafe {
    let res = allocate_loop(|buf|
{
    let (ptr, len) = slice_parts(buf);
    cvt(extattr_list_func(
        path.as_ptr(),
        EXTATTR_NAMESPACE_USER,
        ptr,
        len,
    ))
});
match res {
    Ok(v) => v,
    Err(err) => return Err(err),
}
};

```

```

Ok(XAttrs {
    system_attrs: sysvec.into_boxed_slice(),
    user_attrs: uservec.into_boxed_slice(),
    offset: 0,
})
}

```

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j. "Vervielfältigen" im Sinne dieser Lizenz bedeutet, mittels beliebiger Verfahren Vervielfältigungsstücke des Schutzgegenstandes herzustellen, insbesondere durch Ton- oder Bildaufzeichnungen, und umfasst auch den Vorgang, erstmals körperliche Fixierungen des Schutzgegenstandes sowie Vervielfältigungsstücke dieser Fixierungen anzufertigen, sowie die Übertragung des Schutzgegenstandes auf einen Bild- oder Tonträger oder auf ein anderes elektronisches Medium, gleichviel ob in digitaler oder analoger Form.

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ii. erlaubt ausdrücklich das Lizenzieren von ihr unterstellten Abwandlungen unter vorliegender Lizenz, unter einer anderen rechtsordnungsspezifisch angepassten Creative-Commons-Lizenz mit denselben Lizenzelementen, wie sie die vorliegende Lizenz aufweist, oder unter der entsprechenden Creative-Commons-Unported-Lizenz.

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a. Den Schutzgegenstand in beliebiger Form und Menge zu vervielfältigen, ihn in Sammelwerke zu integrieren und ihn als Teil solcher Sammelwerke zu vervielfältigen;

b. Abwandlungen des Schutzgegenstandes anzufertigen, einschließlich Übersetzungen unter Nutzung jedweder Medien, sofern deutlich erkennbar gemacht wird, dass es sich um Abwandlungen handelt;

c. den Schutzgegenstand, allein oder in Sammelwerke aufgenommen, öffentlich zu zeigen und zu verbreiten;

d. Abwandlungen des Schutzgegenstandes zu veröffentlichen, öffentlich zu zeigen und zu verbreiten.

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b. Sie dürfen eine Abwandlung ausschließlich unter den Bedingungen

i. dieser Lizenz,

ii. einer späteren Version dieser Lizenz mit denselben Lizenzelementen,

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ii. den Titel des Inhaltes;

iii. in einer praktikablen Form den Uniform-Resource-Identifier (URI, z.B. Internetadresse), den der Lizenzgeber zum Schutzgegenstand angegeben hat, es sei denn, dieser URI verweist nicht auf den Rechtevermerk oder die Lizenzinformationen zum Schutzgegenstand;

iv. und im Falle einer Abwandlung des Schutzgegenstandes in bereinstimmung mit Abschnitt 3.b) einen Hinweis darauf, dass es sich um eine Abwandlung handelt.

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LIZENZGEBER UND IHNEN GESCHLOSSEN WURDE UND SOWEIT MANGEL NICHT ARGLISTIG

VERSCHWIEGEN

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7.

Erlschen

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//! This file contains the BSD APIs available in Haiku. It corresponds to the
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//!

//! Note that Haiku's BSD compatibility is a combination of system APIs and
//! utility libraries. There should only be system APIs in `libc`. When you are
//! trying to determine whether something should be included in this file, the
//! best indicator is whether it also exists in the BSD-specific definitions in
//! this libc crate.

use crate::prelude::*;

// stringlist.h (utility library)

// Note: this is kept because it was previously introduced

pub type StringList = _stringlist;

s! {

// stringlist.h (utility library)

// Note: this is kept because it was previously introduced

pub struct _stringlist {

pub sl_str: *mut *mut c_char,

pub sl_max: size_t,

pub sl_cur: size_t,

}

// sys/event.h

pub struct kevent {

```

    pub ident: crate::uintptr_t,
    pub filter: c_short,
    pub flags: c_ushort,

    pub fflags: c_uint,
    pub data: i64,
    pub udata: *mut c_void,
    pub ext: [u64; 4],
}

// sys/link_elf.h
pub struct dl_phdr_info {
    pub dlpi_addr: crate::Elf_Addr,
    pub dlpi_name: *const c_char,
    pub dlpi_phdr: *const crate::Elf_Phdr,
    pub dlpi_phnum: crate::Elf_Half,
}
}

// sys/event.h
pub const EVFILT_READ: i16 = -1;
pub const EVFILT_WRITE: i16 = -2;
pub const EVFILT_PROC: i16 = -5;
pub const EV_ADD: u16 = 0x0001;
pub const EV_DELETE: u16 = 0x0002;
pub const EV_ONESHOT: u16 = 0x0010;
pub const EV_CLEAR: u16 = 0x0020;
pub const EV_EOF: u16 = 0x8000;
pub const EV_ERROR: u16 = 0x4000;
pub const NOTE_EXIT: u32 = 0x80000000;

// sys/ioccom.h
pub const IOC_VOID: c_ulong = 0x20000000;
pub const IOC_OUT: c_ulong = 0x40000000;
pub const IOC_IN: c_ulong = 0x80000000;
pub const IOC_INOUT: c_ulong = IOC_IN | IOC_OUT;
pub const IOC_DIRMASK: c_ulong = 0xe0000000;

#[link(name = "bsd")]
extern "C" {
    // stdlib.h
    pub fn daemon(nochdir:
c_int, noclose: c_int) -> c_int;
    pub fn getprogname() -> *const c_char;
    pub fn setprogname(progname: *const c_char);
    pub fn arc4random() -> u32;
    pub fn arc4random_uniform(upper_bound: u32) -> u32;
    pub fn arc4random_buf(buf: *mut c_void, n: size_t);

```

```

pub fn mkstemps(template: *mut c_char, suffixlen: c_int) -> c_int;
pub fn strtonum(
    nptr: *const c_char,
    minval: c_longlong,
    maxval: c_longlong,
    errstr: *mut *const c_char,
) -> c_longlong;

// pty.h
pub fn openpty(
    amaster: *mut c_int,
    aslave: *mut c_int,
    name: *mut c_char,
    term: *mut crate::termios,
    winp: *mut crate::winsize,
) -> c_int;
pub fn login_tty(_fd: c_int) -> c_int;
pub fn forkpty(
    amaster: *mut c_int,
    name: *mut c_char,
    term: *mut crate::termios,
    winp: *mut crate::winsize,
) -> crate::pid_t;

// string.h
pub fn strsep(string: *mut *mut c_char, delimiters:
*const c_char) -> *mut c_char;
pub fn explicit_bzero(buf: *mut c_void, len: size_t);

// stringlist.h (utility library)
// Note: this is kept because it was previously introduced
pub fn sl_init() -> *mut StringList;
pub fn sl_add(sl: *mut StringList, n: *mut c_char) -> c_int;
pub fn sl_free(sl: *mut StringList, i: c_int);
pub fn sl_find(sl: *mut StringList, n: *mut c_char) -> *mut c_char;

// sys/event.h
pub fn kqueue() -> c_int;
pub fn kevent(
    kq: c_int,
    changelist: *const kevent,
    nchanges: c_int,
    eventlist: *mut kevent,
    nevents: c_int,
    timeout: *const crate::timespec,
) -> c_int;

// sys/link_elf.h

```

```

pub fn dl_iterate_phdr(
    callback: Option<
        unsafe extern "C" fn(info: *mut dl_phdr_info, size: usize, data: *mut c_void) -> c_int,
    >,
    data: *mut c_void,
) -> c_int;

// sys/time.h
pub fn lutimes(file: *const c_char, times: *const crate::timeval)
-> c_int;

// sys/uov.h
pub fn preadv(
    fd: c_int,
    iov: *const crate::iovec,
    iovcnt: c_int,
    offset: crate::off_t,
) -> ssize_t;
pub fn pwritev(
    fd: c_int,
    iov: *const crate::iovec,
    iovcnt: c_int,
    offset: crate::off_t,
) -> ssize_t;

// sys/wait.h
pub fn wait4(
    pid: crate::pid_t,
    status: *mut c_int,
    options: c_int,
    rusage: *mut crate::rusage,
) -> crate::pid_t;
}
=====

```

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Zweck am nächsten kommt.

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"#

r#" 2.1

1

- a.
- b.
- c.
- d.
- e.
- f.

2

304918241924202102

3

7b

- a.
- b.
- c.

- d.
- e.
- f.
- g.

4

5

34

- a.
- b.
- c. URIUniform Resource Identifier
- d. URI
- e.
- f.
- g.
- h.
- i.
- j. 1234URIURIURI5
- k.

6

7

- a. 1249
- b. a
- c. ab

8

- a.
- b.
- c.
- d.

9

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Die nach diesem Abschnitt

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//! `ioctl` opcode behavior for BSD platforms.

use super::{Direction, Opcode};

```
pub(super) const fn compose_opcode(
    dir: Direction,
    group: Opcode,
    num: Opcode,
    size: Opcode,
) -> Opcode {
    let dir = match dir {
        Direction::None => NONE,
        Direction::Read => READ,
        Direction::Write => WRITE,
        Direction::ReadWrite => READ | WRITE,
    };

    dir | num | (group << 8) | ((size & IOCPARAM_MASK) << 16)
}
```

```
// `IOC_VOID`
pub const NONE: Opcode = 0x2000_0000;
// `IOC_OUT` (out is from the perspective of the kernel)
pub const READ: Opcode = 0x4000_0000;
// `IOC_IN` (in is from the perspective of the kernel)
pub const WRITE: Opcode = 0x8000_0000;
pub const IOCPARAM_MASK: Opcode = 0x1FFF;
r#"Copyright (C) 2002 Naval Research Laboratory (NRL/CCS)
```

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#!/`ioctl` opcode behavior for BSD platforms.

use super::{Direction, RawOpcode};

```
pub(super) const fn compose_opcode(
    dir: Direction,
    group: RawOpcode,
    num: RawOpcode,
    size: RawOpcode,
) -> RawOpcode {
    let dir = match dir {
        Direction::None => NONE,
        Direction::Read => READ,
        Direction::Write => WRITE,
        Direction::ReadWrite => READ | WRITE,
    };

    dir | num | (group << 8) | ((size & IOCPARAM_MASK) << 16)
}
```

```
// `IOC_VOID`
pub const NONE: RawOpcode = 0x2000_0000;
// `IOC_OUT` (out is from the perspective of the kernel)
pub const READ: RawOpcode = 0x4000_0000;
// `IOC_IN` (in is from the perspective of the kernel)
pub const WRITE: RawOpcode = 0x8000_0000;
pub const IOCPARAM_MASK: RawOpcode = 0x1FFF;
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```

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

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Version 1.0 dated 2006-09-05.

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Version 3, 29 June 2007

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By Shawn Hargreaves, 18 October 1998.

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Les droits mentionnés ci-dessus peuvent être exercés sur tous les supports, médias, procédés techniques et formats. Les droits ci-dessus incluent le droit d'effectuer les modifications nécessaires techniquement à l'exercice des droits dans d'autres formats et procédés techniques. L'exercice de tous les droits qui ne sont pas expressément autorisés par l'Offrant ou dont il n'aurait pas la gestion demeure réservé, notamment les mécanismes de gestion collective obligatoire applicables décrits à l'article 4(e).

4. Restrictions. L'autorisation accordée par l'article 3 est expressément assujettie et limitée par le respect des restrictions suivantes :

a. L'Acceptant peut reproduire, distribuer, représenter ou communiquer au public l'Œuvre y compris par voie numérique uniquement selon les termes de ce Contrat. L'Acceptant doit inclure une copie ou l'adresse Internet (Identifiant Uniforme de Ressource) du présent Contrat toute reproduction ou enregistrement de l'Œuvre que l'Acceptant distribue, représente ou communique au public y compris par voie numérique. L'Acceptant ne peut pas offrir ou imposer de conditions d'utilisation de l'Œuvre qui altèrent ou restreignent les termes du présent Contrat ou l'exercice des droits qui y sont accordés au bénéficiaire. L'Acceptant ne peut pas céder de droits sur l'Œuvre. L'Acceptant doit conserver intactes toutes les informations qui renvoient ce Contrat et l'exonération de responsabilité. L'Acceptant ne peut pas reproduire, distribuer, représenter ou communiquer au public l'Œuvre, y compris par voie numérique, en utilisant une mesure technique de contrôle d'accès ou de contrôle d'utilisation qui serait contradictoire avec les termes de cet Accord contractuel. Les mentions ci-dessus s'appliquent à l'Œuvre telle qu'elle incorpore dans une Œuvre dite Collective, mais, en dehors de l'Œuvre en elle-même, ne soumettent pas l'Œuvre dite Collective, aux termes du présent Contrat. Si l'Acceptant

cre une Oeuvre dite Collective, la demande de tout Offrant, il devra, dans la mesure du possible, retirer de l'Oeuvre dite Collective toute référence au dit Offrant, comme demandé. Si l'Acceptant cre une Oeuvre dite Collective, la demande de tout Auteur, il devra, dans la mesure du possible, retirer de l'Oeuvre dite Collective toute référence au dit Auteur, comme demandé. Si l'Acceptant cre une Oeuvre dite Drive, la demande de tout Offrant, il devra, dans la mesure du possible, retirer de l'Oeuvre dite Drive toute référence au dit Offrant, comme demandé. Si l'Acceptant cre une Oeuvre dite Drive, la demande de tout Auteur, il devra, dans la mesure du possible, retirer de l'Oeuvre dite Drive toute référence au dit Auteur, comme demandé.

b. L'Acceptant peut reproduire, distribuer, représenter ou communiquer au public une Oeuvre dite Drive y compris par voie numérique uniquement sous les termes de ce Contrat, ou d'une version ultérieure de ce Contrat comprenant les mêmes Options du Contrat que le présent Contrat, ou un Contrat Creative Commons iCommons comprenant les mêmes Options du Contrat que le présent Contrat (par exemple Paternité - Pas d'Utilisation Commerciale - Partage Des Conditions Initiales A l'Identique 2.0 Japon). L'Acceptant doit inclure une copie ou l'adresse Internet (Identifiant Uniforme de Ressource) du présent Contrat, ou d'un autre Contrat tel que décrit la phrase précédente, toute reproduction ou enregistrement de l'Oeuvre dite Drive que l'Acceptant distribue, représente ou communique au public y compris par voie numérique. L'Acceptant ne peut pas offrir ou imposer de conditions d'utilisation sur l'Oeuvre dite Drive qui altèrent ou restreignent les termes du présent Contrat ou l'exercice des droits qui y sont accordés au bénéficiaire, et doit conserver intactes toutes les informations qui renvoient ce Contrat et l'avertissement sur les garanties. L'Acceptant ne peut pas reproduire, distribuer, représenter ou communiquer au public y compris par voie numérique l'Oeuvre dite Drive en utilisant une mesure technique de contrôle d'accès ou de contrôle d'utilisation qui serait contradictoire avec les termes de cet Accord contractuel. Les mentions ci-dessus s'appliquent l'Oeuvre dite Drive telle qu'incorpore dans une Oeuvre dite Collective, mais, en dehors de l'Oeuvre dite Drive en elle-même, ne soumettent pas l'Oeuvre Collective, aux termes du présent Contrat.

c. L'Acceptant ne peut exercer aucun des droits conférés par l'article 3 avec l'intention ou l'objectif d'obtenir un profit commercial ou une compensation financière personnelle. L'change de l'Oeuvre avec d'autres Oeuvres protégées par le droit de la propriété littéraire et artistique par le partage électronique de fichiers, ou par tout autre moyen, n'est pas considéré comme un change avec l'intention ou l'objectif d'un profit commercial ou d'une compensation financière personnelle, dans la mesure où aucun paiement ou compensation financière n'intervient en relation avec l'change d'Oeuvres protégées.

d. Si l'Acceptant reproduit, distribue, représente ou communique au public, y compris par voie numérique, l'Oeuvre ou toute Oeuvre dite Drive ou toute Oeuvre dite Collective, il doit conserver intactes toutes les informations sur le régime des droits et en attribuer la paternité à l'Auteur Original, de manière raisonnable au regard du médium ou du moyen utilisé. Il doit communiquer le nom de l'Auteur Original ou son éventuel pseudonyme s'il est indiqué ; le titre de l'Oeuvre Originale s'il est indiqué ; dans la mesure du possible, l'adresse Internet ou Identifiant Uniforme de Ressource (URI), s'il existe, spécifié par l'Offrant comme associé à l'Oeuvre, moins que cette adresse ne renvoie pas aux informations légales (paternité et conditions d'utilisation de l'Oeuvre). Dans le cas d'une Oeuvre dite Drive, il doit indiquer les éléments identifiant l'utilisation de l'Oeuvre dans l'Oeuvre dite Drive par exemple Traduction anglaise de l'Oeuvre par l'Auteur Original ou Scénario basé sur l'Oeuvre par l'Auteur Original.

Ces obligations d'attribution de paternité doivent être exécutées de manière raisonnable. Cependant, dans le cas d'une Oeuvre dite Drive ou d'une Oeuvre dite Collective, ces informations doivent, au minimum, apparaître de la même manière aussi visible que celles auxquelles apparaissent les informations de même nature.

e. Dans le cas où une utilisation de l'Oeuvre serait soumise à un régime légal de gestion collective obligatoire, l'Offrant se réserve le droit exclusif de collecter ces redevances par l'intermédiaire de la société de perception et de répartition des

droits comptente. Sont notamment concerns la radiodiffusion et la communication dans un lieu public de phonogrammes publis des fins de commerce, certains cas de retransmission par cble et satellite, la copie prive d'Oeuvres fixes sur phonogrammes ou vidogrammes, la reproduction par reprographie.

5. Garantie et exonration de responsabilit

a. En mettant l'Oeuvre la disposition du public selon les termes de ce Contrat, l'Offrant dclare de bonne foi qu' sa connaissance et dans les limites d'une enquete raisonnable :

i. L'Offrant a obtenu tous les droits sur l'Oeuvre ncessaires pour pouvoir autoriser l'exercice des droits accords par le prsent Contrat, et permettre la jouissance paisible et l'exercice licite de ces droits, ceci sans que l'Acceptant n'ait aucune obligation de verser de rmunration ou tout autre paiement ou droits, dans la limite des mcanismes de gestion collective obligatoire applicables dcrits l'article 4(e);

ii. L'Oeuvre n'est constitutive ni d'une violation des droits de tiers, notamment du droit de la propriit littraire et artistique, du droit des marques, du droit de l'information, du droit civil ou de tout autre droit, ni de diffamation, de violation de la vie prive ou de tout autre prjudice dlictuel l'gard de toute tierce partie.

b. A l'exception des situations expressment mentionnes dans le prsent Contrat ou dans un autre accord crit, ou exiges par la loi applicable, l'Oeuvre est mise disposition en l'tat sans garantie d'aucune sorte, qu'elle soit expresse ou tacite, y compris l'gard du contenu ou de l'exactitude de l'Oeuvre.

6. Limitation de responsabilit. A l'exception des garanties d'ordre public imposes par la loi applicable et des rparations imposes par le rgime de la responsabilit vis--vis d'un tiers en raison de la violation des garanties prvues par l'article 5 du prsent contrat, l'Offrant ne sera en aucun cas tenu responsable vis--vis de l'Acceptant, sur la base d'aucune thorie lgale ni en raison d'aucun prjudice direct, indirect, matriel ou moral, rsultant de l'exccution du prsent Contrat ou de l'utilisation de l'Oeuvre, y compris dans l'hypothse o l'Offrant avait connaissance de la possible existence d'un tel prjudice.

7. Rsiliation

a. Tout manquement aux termes du contrat par l'Acceptant entrane la rsiliation automatique du Contrat et la fin des droits qui en dcoulent. Cependant, le contrat conserve ses effets envers les personnes physiques ou morales qui ont reu de la part de l'Acceptant, en excution du prsent contrat, la mise disposition d'Oeuvres dites Drives, ou d'Oeuvres dites Collectives, ceci tant qu'elles respectent pleinement leurs obligations. Les sections 1, 2, 5, 6 et 7 du contrat continuent s'appliquer aprs la rsiliation de celui-ci.

b. Dans les limites indiques ci-dessus, le prsent Contrat s'applique pendant toute la dure de protection de l'Oeuvre selon le droit applicable. Nanmoins, l'Offrant se rserve tout moment le droit d'exploiter l'Oeuvre sous des conditions contractuelles diffrentes, ou d'en cesser la diffusion; cependant, le recours cette option ne doit pas conduire retirer les effets du prsent Contrat (ou de tout contrat qui a t ou doit tre accord selon les termes de ce Contrat), et ce Contrat continuera s'appliquer dans tous ses effets jusqu' ce que sa rsiliation intervienne dans les conditions dcrites ci-dessus.

8. Divers

a. A chaque reproduction ou communication au public par voie numérique de l'Oeuvre ou d'une Oeuvre dite Collective par l'Acceptant, l'Offrant propose au bénéficiaire une offre de mise à disposition de l'Oeuvre dans des termes et conditions identiques à ceux accordés à la partie Acceptante dans le présent Contrat.

b. A chaque reproduction ou communication au public par voie numérique d'une Oeuvre dite Drive par l'Acceptant, l'Offrant propose au bénéficiaire une offre de mise à disposition du bénéficiaire de l'Oeuvre originale dans des termes et conditions identiques à ceux accordés à la partie Acceptante dans le présent Contrat.

c. La nullité ou l'inapplicabilité d'une quelconque disposition de ce Contrat au regard de la loi applicable n'affecte pas celle des autres dispositions qui resteront pleinement valides et applicables. Sans action supplémentaire par les parties, cet accord, lesdites dispositions devront être interprétés dans la mesure minimum nécessaire à leur validité et leur applicabilité.

d. Aucune limite, renonciation ou modification des termes ou dispositions du présent Contrat ne pourra être acceptée sans le consentement écrit et signé de la partie compétente.

e. Ce Contrat constitue le seul accord entre les parties en ce qui concerne la mise à disposition de l'Oeuvre. Il n'existe aucun document annexe, accord supplémentaire ou mandat portant sur cette Oeuvre en dehors des éléments mentionnés ici. L'Offrant ne sera tenu par aucune disposition supplémentaire qui pourrait apparaître dans une quelconque communication en provenance de l'Acceptant. Ce Contrat ne peut être modifié sans l'accord mutuel écrit de l'Offrant et de l'Acceptant.

f. Le droit applicable est le droit français.

Creative Commons n'est pas partie à ce Contrat et n'offre aucune forme de garantie relative à l'Oeuvre. Creative Commons décline toute responsabilité à l'égard de l'Acceptant ou de toute autre partie, quel que soit le fondement légal de cette responsabilité et quel que soit le préjudice subi, direct, indirect, matériel ou moral, qui surviendrait en rapport avec le présent Contrat. Cependant, si Creative Commons s'est expressément identifié comme Offrant pour mettre une Oeuvre à disposition selon les termes de ce Contrat, Creative Commons jouira de tous les droits et obligations d'un Offrant.

À l'exception des fins limitées à informer le public que l'Oeuvre est mise à disposition sous CPCC, aucune des parties n'utilisera la marque Creative Commons ou toute autre indication ou logo affrété sans le consentement préalable écrit de Creative Commons. Toute utilisation autorisée devra être effectuée en conformité avec les lignes directrices de Creative Commons en vigueur au moment de l'utilisation, telles qu'elles sont disponibles sur son site Internet ou sur simple demande.

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"#

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

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about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you.

You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License

Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact

all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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.

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.

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 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.

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) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) 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 materials to be 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:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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(<https://github.com/chakra-ui/chakra-ui>).

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29 May 2002

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"#

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Licentie

HET WERK (ALS HIERONDER OMSCHREVEN) WORDT TER BESCHIKKING GESTELD
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('CCPL' OF 'LICENTIE'). HET WERK WORDT BESCHERMD OP GROND VAN HET AUTEURSRECHT, NABURIGE RECHTEN, HET DATABANKENRECHT EN/OF ENIGE ANDERE TOEPASSELIJKE RECHTEN. MET UITZONDERING VAN HET IN DEZE LICENTIE OMSCHREVEN TOEGESTANE GEBRUIK VAN HET WERK IS ENIG ANDER GEBRUIK VAN HET WERK NIET TOEGESTAAN.

DOOR HET UITOEFENEN VAN DE IN DEZE

LICENTIE VERLEENDE RECHTEN MET BETREKKING TOT HET WERK AANVAARDT EN GAAT DE GEBRUIKER AKKOORD MET DE VOORWAARDEN VAN DEZE LICENTIE, MET DIEN VERSTANDE DAT (DE INHOUD VAN) DEZE LICENTIE OP VOORHAND VOLDOENDE DUIDELIJK KENBAAR DIENT TE ZIJN VOOR DE ONTVANGER VAN HET WERK.

DE LICENTIEGEEVER VERLEENT DE GEBRUIKER DE IN DEZE LICENTIE OMSCHREVEN RECHTEN MET INACHTNEMING VAN DE DESBETREFFENDE VOORWAARDEN.

1. Definities

a. 'Verzamelwerk' een werk waarin het Werk, in zijn geheel en in ongewijzigde vorm, samen met een of meer andere werken, die elk een afzonderlijk en zelfstandig werk vormen, tot een geheel is samengevoegd. Voorbeelden van een verzamelwerk zijn een tijdschrift, een bloemlezing of een encyclopedie. Een Verzamelwerk zal voor de toepassing van deze Licentie niet als een Afgeleid werk (als hieronder omschreven) worden beschouwd.

b. 'Afgeleid werk' een werk dat is gebaseerd op het Werk of op het Werk en andere reeds bestaande werken.

Voorbeelden van een Afgeleid werk zijn

een vertaling, een muziekschikking (arrangement), een toneelbewerking, een literaire bewerking, een verfilming, een geluidsopname, een kunstreproductie, een verkorte versie, een samenvatting of enig andere bewerking van het Werk, met dien verstande dat een Verzamelwerk voor de toepassing van deze Licentie niet als een Afgeleid werk zal worden beschouwd.

Indien het Werk een muziekwerk betreft, zal de synchronisatie van de tijdslijnen van het Werk en een bewegend beeld ('synching') voor de toepassing van deze Licentie als een Afgeleid Werk worden beschouwd.

c. 'Licentiegever' de natuurlijke persoon/personen of rechtspersoon/rechtspersonen die het Werk volgens de voorwaarden van deze Licentie aanbiedt/aanbieden.

d. 'Maker' de natuurlijke persoon/personen of rechtspersoon/personen die het oorspronkelijke werk gemaakt heeft/hebben. Voor de toepassing van deze Licentie wordt onder de Maker mede verstaan de uitvoerende kunstenaar, film- en fonogramproducent en omroeporganisaties in de zin van de Wet op de naburige rechten en de producent van een databank in de zin van de Databankenwet.

e. 'Werk' het auteursrechtelijk beschermde werk dat volgens de voorwaarden van deze Licentie wordt aangeboden. Voor de toepassing van deze Licentie wordt onder het Werk mede verstaan het fonogram, de eerste vastlegging van een film en het (omroep)programma in de zin van de Wet op de naburige rechten en de databank in de zin van de Databankenwet, voor zover dit fonogram, deze eerste vastlegging van een film, dit (omroep)programma en deze databank beschermd wordt krachtens de toepasselijke wet in de jurisdictie van de Gebruiker.

f. 'Gebruiker' de natuurlijke persoon of rechtspersoon die rechten ingevolge deze Licentie uitoefent en die de voorwaarden van deze Licentie met betrekking tot het Werk niet eerder geschonden heeft, of die van de Licentiegever uitdrukkelijke toestemming gekregen heeft om rechten ingevolge deze Licentie uit te oefenen ondanks

een eerdere schending.

2.

Beperkingen van de uitsluitende rechten. Niets in deze Licentie strekt ertoe om de rechten te beperken die voortvloeien uit de beperkingen en uitputting van de uitsluitende rechten van de rechthebbende krachtens het auteursrecht, de naburige rechten, het databankenrecht of enige andere toepasselijke rechten.

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b. het maken en reproduceren van Afgeleide werken met dien verstande dat met betrekking tot het Afgeleide werk, met inbegrip van welke vertaling in welk medium dan ook, duidelijk wordt gemaakt dat er wijzigingen in het oorspronkelijke Werk zijn aangebracht. Bijvoorbeeld, aan een vertaling kan worden toegevoegd dat 'het oorspronkelijke Werk is van het Engels in het Spaans vertaald', of in geval van een verandering kan worden aangegeven dat 'het oorspronkelijke werk is veranderd';

c. het verspreiden van exemplaren van het Werk, het in het openbaar tonen, op- en uitvoeren en het on-line beschikbaar stellen van het Werk, afzonderlijk en als deel van een Verzamelwerk;

d. het verspreiden van exemplaren van Afgeleide werken, het in het openbaar te tonen, op- en uitvoeren en het on-line beschikbaar stellen van Afgeleide werken;

e. het opvragen en hergebruiken van het Werk;

f. Volledigheidshalve dient te worden vermeld dat:

i. Niet voor afstand vatbare heffingsregelingen. in het geval van niet voor afstand vatbare heffingsregelingen (bijvoorbeeld met betrekking tot thuiskopien) de Licentiegever zich het recht voorbehoudt om dergelijke heffingen te innen
(al dan niet door middel van een auteursrechtenorganisatie) bij zowel commercieel als niet-commercieel gebruik van het Werk;

ii. Voor afstand vatbare heffingsregeling. in het geval van voor afstand vatbare heffingsregelingen (bijvoorbeeld met betrekking tot leenrechten) de Licentiegever afstand doet van het recht om dergelijke heffingen te innen bij zowel commercieel als niet-commercieel gebruik van het Werk;

iii. Collectief rechtenbeheer. de Licentiegever afstand doet van het recht om vergoedingen te innen (zelfstandig of, indien de Licentiegever lid is van een auteursrechtenorganisatie, door middel van die organisatie) bij zowel commercieel als niet-commercieel gebruik van het Werk.

De Gebruiker mag deze rechten uitoefenen met behulp van alle thans bekende media, dragers en formats. De Gebruiker is tevens gerechtigd om technische wijzigingen aan te brengen die noodzakelijk zijn om de rechten met behulp van andere media, dragers en formats uit te oefenen. Alle niet

uitdrukkelijk verleende rechten zijn hierbij voorbehouden aan de Licentiegever, met inbegrip van maar niet beperkt tot de rechten die in artikel 4(d) worden genoemd. Voor zover de Licentiegever op basis van het nationale recht ter implementatie van de Europese Databankenrichtlijn over uitsluitende rechten beschickt doet de Licentiegever afstand van deze rechten.

4. Beperkingen. De in artikel 3 verleende Licentie is uitdrukkelijk gebonden aan de volgende beperkingen:

a. De Gebruiker mag het Werk uitsluitend verspreiden, in het openbaar tonen, op- of uitvoeren of on-line beschikbaar stellen met inachtneming van de voorwaarden van deze Licentie, en de Gebruiker dient een exemplaar van, of de Uniform Resource Identifier voor, deze Licentie toe te voegen aan elk exemplaar van het Werk dat de Gebruiker verspreidt, in het openbaar toont, op- of uitvoert, of on-line beschikbaar stelt. Het is de Gebruiker niet toegestaan om het Werk onder enige afwijkende voorwaarden aan te bieden waardoor de voorwaarden van deze Licentie dan wel de mogelijkheid van de ontvangers van het Werk om de rechten krachtens deze Licentie uit te oefenen worden beperkt. Het is de Gebruiker niet toegestaan om het Werk in sublicentie te geven. De Gebruiker dient alle vermeldingen die verwijzen naar deze Licentie dan wel naar de uitsluiting van garantie te laten staan. Het is de Gebruiker niet toegestaan om het Werk te verspreiden, in het openbaar te tonen, op- of uit te voeren of on-line beschikbaar te stellen met toepassing van technologische voorzieningen waardoor de voorwaarden van deze Licentie dan wel de mogelijkheid van de ontvangers van het Werk om de rechten krachtens deze Licentie uit te oefenen worden beperkt. Het voorgaande is tevens van toepassing op het Werk dat deel uitmaakt van een Verzamelwerk, maar dat houdt niet in dat het Verzamelwerk, afgezien van het Werk zelf, gebonden is aan de voorwaarden van deze Licentie. Indien de Gebruiker een Verzamelwerk maakt, dient deze, op verzoek van welke Licentiegever ook, de op grond van artikel 4(b) vereiste naamsvermelding uit het Verzamelwerk te verwijderen, voor zover praktisch mogelijk, conform het verzoek. Indien de Gebruiker een Afgeleid werk maakt, dient hij, op verzoek van welke Licentiegever ook, de op grond van artikel 4(b) vereiste naamsvermelding uit het Afgeleide werk te verwijderen, voorzover praktisch mogelijk, conform het verzoek.

b. Indien de Gebruiker het Werk, Afgeleide Werken of Verzamelwerken verspreidt, in het openbaar toont, op- of uitvoert of on-line beschikbaar stelt, dient de Gebruiker, tenzij er sprake is van een verzoek als vermeld in lid 4(a), alle auteursrechtvermeldingen met betrekking tot het Werk te laten staan. Tevens dient de Gebruiker, op een wijze die redelijk is in verhouding tot het gebruikte medium, de naam te vermelden van (i) de Maker (of zijn/haar pseudoniem indien van toepassing) indien deze wordt vermeld; en/of (ii) van (een) andere partij(en) (b.v. sponsor, uitgeverij, tijdschrift)

indien de naamsvermelding van deze partij(en) ("Naamsvermeldingsgerechtigden") in de auteursrechtvermelding of algemene voorwaarden van de Licentiegever of op een andere redelijke wijze verplicht is gesteld door de Maker en/of de Licentiegever; de titel van het Werk indien deze wordt vermeld; voorzover redelijkerwijs toepasbaar de Uniform Resource Identifier, indien aanwezig, waarvan de Licentiegever heeft aangegeven dat deze bij het Werk hoort, tenzij de URI niet verwijst naar de auteursrechtvermeldingen of de licentie-informatie betreffende het Werk; in overeenstemming met artikel 3(b) in geval van een Afgeleid werk, door te verwijzen naar het gebruik van het Werk in het Afgeleide werk (bijvoorbeeld: 'De Franse vertaling van het Werk van de Maker' of 'Scenario gebaseerd op het Werk van de Maker'). De Gebruiker dient op redelijke wijze aan de in dit artikel genoemde vereisten te voldoen; echter, met dien verstande dat, in geval van een Afgeleid werk of een Verzamelwerk, de naamsvermeldingen in ieder geval geplaatst dienen te worden, indien er een naamsvermelding van alle makers van het Afgeleide werk of het Verzamelwerk geplaatst wordt dan als deel van die naamsvermeldingen, en op een wijze die in ieder geval even duidelijk is als de naamsvermeldingen van de overige makers.

Volledigheidshalve dient te worden vermeld dat de Gebruiker uitsluitend gebruik mag maken van de naamsvermelding op de in dit artikel omschreven wijze teneinde te voldoen aan de naamsvermeldingsverplichting

en, door gebruikmaking van zijn rechten krachtens deze Licentie, is het de Gebruiker niet toegestaan om op enigerlei wijze de indruk te wekken dat er sprake is van enig verband met, sponsorschap van of goedkeuring van de (toepasselijke) Maker, Licentiegever c.q. Naamsvermeldingsgerechtigden van de Gebruiker of diens gebruik van het Werk, zonder de afzonderlijke, uitdrukkelijke, voorafgaande, schriftelijke toestemming van de Maker, Licentiegever c.q. Naamsvermeldingsgerechtigden.

c. Volledigheidshalve dient te worden vermeld, dat de hierboven vermelde beperkingen (lid 4(a) en lid 4(b)) niet van toepassing zijn op die onderdelen van het Werk die geacht worden te vallen onder de definitie van het 'Werk' zoals vermeld in deze Licentie uitsluitend omdat zij voldoen aan de criteria van het sui generis databankenrecht krachtens het nationale recht ter implementatie van de Europese Databankenrichtlijn.

d. De in artikel 3 verleende rechten moeten worden uitgeoefend met inachtneming van het morele recht van de Maker (en/of de uitvoerende kunstenaar) om zich te verzetten tegen elke misvorming, vermindering of andere aantasting van het werk, welke nadeel zou kunnen toebrengen aan de eer of de naam van de Maker (en/of de uitvoerende kunstenaar) of aan zijn waarde in deze hoedanigheid, indien en voor zover de Maker (en/of de uitvoerende kunstenaar) op grond van een op hem van toepassing zijnde wettelijke bepaling geen afstand kan doen van dat morele recht.

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DE LICENTIEGEVER AANVAARDT GEEN ENKELE AANSPRAKELIJKHEID JEGENS DE GEBRUIKER VOOR ENIGE BIJZONDERE OF INCIDENTELE SCHADE OF GEVOLGSCHADE VOORTVLOEIEND UIT DEZE LICENTIE OF HET GEBRUIK VAN HET WERK, ZELFS NIET INDIEN DE LICENTIEGEVER OP DE HOOGTE IS GESTELD VAN HET RISICO VAN DERGELIJKE SCHADE, INDIEN EN VOORZOVER DE WET NIET ANDERS BEPAALT.

7. Beindiging

a. Deze Licentie en de daarin verleende rechten vervallen automatisch op het moment dat de Gebruiker in strijd handelt met de voorwaarden van deze Licentie. De licenties van natuurlijke personen of rechtspersonen die Verzamelwerken hebben ontvangen van de Gebruiker krachtens deze Licentie blijven echter in stand zolang dergelijke natuurlijke personen of rechtspersonen zich houden aan de voorwaarden van die licenties. Na de beindiging van deze Licentie blijven artikelen 1, 2, 5, 6, 7 en 8 onverminderd van kracht.

b. Met inachtneming van de hierboven vermelde voorwaarden wordt de Licentie verleend voor de duur van de

toepasselijke intellectuele eigendomsrechten op het Werk. De Licentiegever behoudt zich desalniettemin te allen tijde het recht voor om het Werk volgens gewijzigde licentievoorwaarden te verspreiden of om het Werk niet langer te verspreiden; met dien verstande dat een dergelijk besluit niet de intrekking van deze Licentie (of enig andere licentie die volgens de voorwaarden van deze Licentie (verplicht) is verleend) tot gevolg heeft, en deze Licentie onverminderd van kracht blijft tenzij zij op de in lid a omschreven wijze wordt beëindigd.

8. Diversen

a. Elke keer dat de Gebruiker het Werk of een Verzamelwerk verspreidt of on-line beschikbaar stelt, biedt de Licentiegever de ontvanger een licentie op het Werk aan volgens de algemene voorwaarden van deze Licentie.

b. Elke keer dat de Gebruiker een Afgeleid werk verspreidt of on-line beschikbaar stelt, biedt de Licentiegever de ontvanger een licentie op het oorspronkelijke werk aan volgens de algemene voorwaarden van deze Licentie.

c. Indien enige bepaling van deze Licentie nietig of niet rechtens afdwingbaar is, zullen de overige voorwaarden van deze Licentie volledig van kracht blijven. De nietige of niet-afdwingbare bepaling zal, zonder tussenkomst van de partijen, worden vervangen door een geldige en afdwingbare bepaling waarbij het doel en de strekking van de oorspronkelijke bepaling zoveel mogelijk in acht worden genomen.

d. Een verklaring van afstand van in deze Licentie verleende rechten of een wijziging van de voorwaarden van deze Licentie dient schriftelijk te geschieden en getekend te zijn door de partij die verantwoordelijk is voor de verklaring van afstand respectievelijk de partij wiens toestemming voor de wijziging is vereist.

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```
/// The datatype used for the ioctl number
#[doc(hidden)]
#[cfg(not(solarish))]
pub type ioctl_num_type = ::libc::c_ulong;
```

```
#[doc(hidden)]
#[cfg(solarish)]
pub type ioctl_num_type = ::libc::c_int;
```

```
/// The datatype used for the 3rd argument
#[doc(hidden)]
pub type ioctl_param_type = ::libc::c_int;
```

```
mod consts {
    use crate::sys::ioctl::ioctl_num_type;
    #[doc(hidden)]
```

```

pub const VOID: ioctl_num_type = 0x2000_0000;
#[doc(hidden)]
pub const OUT: ioctl_num_type = 0x4000_0000;
#[doc(hidden)]
#[allow(overflowing_literals)]
pub const IN: ioctl_num_type = 0x8000_0000;
#[doc(hidden)]
pub const INOUT: ioctl_num_type = IN | OUT;
#[doc(hidden)]
pub const IOCPARM_MASK: ioctl_num_type = 0x1fff;
}

pub use self::consts::*;

#[macro_export]
#[doc(hidden)]
macro_rules! ioc {
    ($inout:expr, $group:expr, $num:expr, $len:expr) => {
        $inout
        | (($len as $crate::sys::ioctl::ioctl_num_type
            & $crate::sys::ioctl::IOCPARM_MASK)

            << 16)
        | (($group as $crate::sys::ioctl::ioctl_num_type) << 8)
        | ($num as $crate::sys::ioctl::ioctl_num_type)
    };
}

/// Generate an ioctl request code for a command that passes no data.
///
/// This is equivalent to the `_IO()` macro exposed by the C ioctl API.
///
/// You should only use this macro directly if the `ioctl` you're working
/// with is "bad" and you cannot use `ioctl_none!()` directly.
///
/// # Example
///
/// ```
/// #![macro_use] extern crate nix;
/// const KVMIO: u8 = 0xAE;
/// ioctl_write_int_bad!(kvm_create_vm, request_code_none!(KVMIO, 0x03));
/// # fn main() {}
/// ```
#[macro_export(local_inner_macros)]
macro_rules! request_code_none {
    ($g:expr, $n:expr) => {
        ioc!($crate::sys::ioctl::VOID, $g, $n, 0)
    };
}

```

```

}

/// Generate an ioctl request code for a command that passes an integer
///
/// This is equivalent to the `_IOWINT()` macro exposed by the C ioctl API.
///
/// You should only use this macro directly if the
/// `ioctl` you're working
/// with is "bad" and you cannot use `ioctl_write_int!()` directly.
#[macro_export(local_inner_macros)]
macro_rules! request_code_write_int {
    ($g:expr, $n:expr) => {
        ioc!(
            $crate::sys::ioctl::VOID,
            $g,
            $n,
            ::std::mem::size_of::<$crate::libc::c_int>()
        )
    };
}

```

```

/// Generate an ioctl request code for a command that reads.
///
/// This is equivalent to the `_IOR()` macro exposed by the C ioctl API.
///
/// You should only use this macro directly if the `ioctl` you're working
/// with is "bad" and you cannot use `ioctl_read!()` directly.
///
/// The read/write direction is relative to userland, so this
/// command would be userland is reading and the kernel is
/// writing.
#[macro_export(local_inner_macros)]
macro_rules! request_code_read {
    ($g:expr, $n:expr, $len:expr) => {
        ioc!($crate::sys::ioctl::OUT, $g, $n, $len)
    };
}

```

```

/// Generate an ioctl request code for a command that writes.
///
///
/// This is equivalent to the `_IOW()` macro exposed by the C ioctl API.
///
/// You should only use this macro directly if the `ioctl` you're working
/// with is "bad" and you cannot use `ioctl_write!()` directly.
///
/// The read/write direction is relative to userland, so this
/// command would be userland is writing and the kernel is

```

```

/// reading.
#[macro_export(local_inner_macros)]
macro_rules! request_code_write {
    ($g:expr, $n:expr, $len:expr) => {
        ioc!($crate::sys::ioctl::IN, $g, $n, $len)
    };
}

/// Generate an ioctl request code for a command that reads and writes.
///
/// This is equivalent to the `_IOWR()` macro exposed by the C ioctl API.
///
/// You should only use this macro directly if the `ioctl` you're working
/// with is "bad" and you cannot use `ioctl_readwrite!()` directly.
#[macro_export(local_inner_macros)]
macro_rules! request_code_readwrite {
    ($g:expr, $n:expr, $len:expr) => {
        ioc!($crate::sys::ioctl::INOUT, $g, $n, $len)
    };
}

```

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```
use crate::errno::Errno;
```

```
use crate::sys::signal::Signal;
```

```
use crate::unistd::Pid;
```

```
use crate::Result;
```

```
use cfg_if::cfg_if;
```

```
use libc::{self, c_int};
```

```
use std::ptr;
```

```
pub type RequestType = c_int;
```

```
cfg_if! {
```

```
    if #[cfg(any(freebsdlike, apple_targets, target_os = "openbsd"))] {
```

```
        #[doc(hidden)]
```

```
        pub type AddressType = *mut ::libc::c_char;
```

```
    } else {
```

```
        #[doc(hidden)]
```

```
        pub type AddressType = *mut ::libc::c_void;
```

```
    }
```

```
}
```

```
libc_enum! {
```



```

#[repr(i32)]
/// Ptrace Request enum defining the action to be taken.
#[non_exhaustive]
pub enum Request {
    PT_TRACE_ME,
    PT_READ_I,
    PT_READ_D,
    #[cfg(apple_targets)]
    PT_READ_U,
    PT_WRITE_I,
    PT_WRITE_D,
    #[cfg(apple_targets)]
    PT_WRITE_U,
    PT_CONTINUE,
    PT_KILL,
    #[cfg(any(any(freebsdlike, apple_targets),
        all(target_os = "openbsd", target_arch = "x86_64"),
        all(target_os = "netbsd", any(target_arch = "x86_64",
            target_arch = "powerpc"))))]
    PT_STEP,
    PT_ATTACH,
    PT_DETACH,
    #[cfg(apple_targets)]
    PT_SIGEXC,
    #[cfg(apple_targets)]
    PT_THUPDATE,
    #[cfg(apple_targets)]
    PT_ATTACHEXC
}
}

unsafe fn ptrace_other(
    request: Request,
    pid: Pid,
    addr: AddressType,
    data: c_int,
) -> Result<c_int> {
    unsafe {
        Errno::result(libc::ptrace(
            request as RequestType,
            libc::pid_t::from(pid),
            addr,
            data,
        ))
        .map(|_| 0)
    }
}
}

```

```

/// Sets the process as traceable, as with `ptrace(PT_TRACEME, ...)`
///
/// Indicates that this process is to be traced by its parent.
/// This is the only ptrace request to be issued by the tracee.
pub fn traceme() -> Result<()> {
    unsafe {
        ptrace_other(Request::PT_TRACE_ME, Pid::from_raw(0), ptr::null_mut(), 0)
            .map(drop)
    }
}

/// Attach to a running
process, as with `ptrace(PT_ATTACH, ...)`
///
/// Attaches to the process specified by `pid`, making it a tracee of the calling process.
pub fn attach(pid: Pid) -> Result<()> {
    unsafe {
        ptrace_other(Request::PT_ATTACH, pid, ptr::null_mut(), 0).map(drop)
    }
}

/// Detaches the current running process, as with `ptrace(PT_DETACH, ...)`
///
/// Detaches from the process specified by `pid` allowing it to run freely, optionally delivering a
/// signal specified by `sig`.
pub fn detach<T: Into<Option<Signal>>>>(pid: Pid, sig: T) -> Result<()> {
    let data = match sig.into() {
        Some(s) => s as c_int,
        None => 0,
    };
    unsafe {
        ptrace_other(Request::PT_DETACH, pid, ptr::null_mut(), data).map(drop)
    }
}

/// Restart the stopped tracee process, as with `ptrace(PTRACE_CONT, ...)`
///
/// Continues the execution of the process with PID `pid`, optionally
/// delivering a signal specified by `sig`.
pub fn cont<T: Into<Option<Signal>>>>(pid: Pid, sig: T)
-> Result<()> {
    let data = match sig.into() {
        Some(s) => s as c_int,
        None => 0,
    };
    unsafe {
        // Ignore the useless return value
        ptrace_other(Request::PT_CONTINUE, pid, 1 as AddressType, data)
    }
}

```

```

        .map(drop)
    }
}

/// Issues a kill request as with `ptrace(PT_KILL, ...)`
///
/// This request is equivalent to `ptrace(PT_CONTINUE, ..., SIGKILL);`
pub fn kill(pid: Pid) -> Result<> {
    unsafe {
        ptrace_other(Request::PT_KILL, pid, 0 as AddressType, 0).map(drop)
    }
}

/// Move the stopped tracee process forward by a single step as with
/// `ptrace(PT_STEP, ...)`
///
/// Advances the execution of the process with PID `pid` by a single step optionally delivering a
/// signal specified by `sig`.
///
/// # Example
/// ```rust
/// use nix::sys::ptrace::step;
/// use nix::unistd::Pid;
/// use nix::sys::signal::Signal;
/// use nix::sys::wait::*;
/// // If a process changes state to the stopped state because of a SIGUSR1
/// // signal,
/// this will step the process forward and forward the user
/// // signal to the stopped process
/// match waitpid(Pid::from_raw(-1), None) {
///     Ok(WaitStatus::Stopped(pid, Signal::SIGUSR1)) => {
///         let _ = step(pid, Signal::SIGUSR1);
///     }
///     _ => {},
/// }
/// ```
#[cfg(any(
    any(freebsdlike, apple_targets),
    all(target_os = "openbsd", target_arch = "x86_64"),
    all(
        target_os = "netbsd",
        any(target_arch = "x86_64", target_arch = "powerpc")
    )
))]
pub fn step<T: Into<Option<Signal>>>(pid: Pid, sig: T) -> Result<> {
    let data = match sig.into() {
        Some(s) => s as c_int,
        None => 0,
    }

```

```

};
unsafe {
    ptrace_other(Request::PT_STEP, pid, ptr::null_mut(), data).map(drop)
}
}

/// Reads a word from a processes memory at the given address
/// Technically, ptrace doesn't dereference the pointer. It passes it directly
/// to the kernel.
#[allow(clippy::not_unsafe_ptr_arg_deref)]
pub fn read(pid: Pid, addr: AddressType)
-> Result<c_int> {
    unsafe {
        // Traditionally there was a difference between reading data or
        // instruction memory but not in modern systems.
        ptrace_other(Request::PT_READ_D, pid, addr, 0)
    }
}

/// Writes a word into the processes memory at the given address
/// Technically, ptrace doesn't dereference the pointer. It passes it directly
/// to the kernel.
#[allow(clippy::not_unsafe_ptr_arg_deref)]
pub fn write(pid: Pid, addr: AddressType, data: c_int) -> Result<> {
    unsafe { ptrace_other(Request::PT_WRITE_D, pid, addr, data).map(drop) }
}

```

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Version 1.0 - 22 November 2005

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Version 1.1 - 26 February 2007

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1.200 nanoid 0.4.0

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1.202 anyhow 1.0.100

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1.203 miniz_oxide 0.8.9

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1.204 cipher 0.4.4

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1.210 tokio-stream 0.1.17

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1.211 zstd-safe 7.2.4

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1.212 icu_normalizer 2.0.0

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1.213 mio 1.0.4

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1.214 tower 0.5.2

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1.215 pathdiff 0.2.3

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1.216 glob 0.3.3

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1.217 rust-netrc 0.1.2

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1.218 textwrap 0.16.2

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1.219 sha-1 0.10.6

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1.220 block-buffer 0.10.4

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1.221 openldap-2.6 2.6.10-r6

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1.222 keyutils 1.6.3-r37

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cmd/krb5/slave/kpropd_rpc.c
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lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
```

lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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```
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/*
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*/  
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */  
/*
```

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*/
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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c

lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprof_hdr.h
kadmin/server/iprof_svc.c
lib/kdb/iprof.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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GSS-API mechglue layer.

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@asis

@item GSS-API CFX, SPNEGO, naming extensions, API extensions.

@item KCM credential cache.

@item HDB LDAP backend.

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libcrypto

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge.
Thanks to: Dan Hoey for his excellent Initial and Inverse permutation
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Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau,
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1.224 e2fsprogs 1.47.3-r1

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/

/*

- Unix SMB/CIFS implementation.

+ trivial database library - standalone version

- trivial database library - private includes

-

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Theodore Ts'o
23-June-2007

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Version 2, June 1991

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of author>
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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That's all there is to it!

```
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
```

all:: image

```
real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic
```

image: \$(BSD_LIB)

```
$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
```

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::

\$(RM) -f \$(DESTDIR)\$(BSDLIB_INSTALL_DIR)/\$(BSD_LIB)

clean::

\$(RM)

-rf pic

\$(RM) -f \$(BSD_LIB)

\$(RM) -f ../\$(BSD_LIB)

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Upstream-Name: e2fsprogs

Upstream-Contact: Theodore Ts'o <tytso@mit.edu>

Source: <http://sourceforge.net/projects/e2fsprogs>

Comment:

This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Files: CleanSpec.mk

contrib/android/ext2simg.c

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Files: e2fsck/*

debugfs/do_journal.c

debugfs/journal.*

debugfs/logdump.c

debugfs/xattrs.c

lib/support/plausible.c

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1.226 zstd 1.5.7-r5

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1.231 sha-2 0.10.9

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1.232 fs-err 3.1.3

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1.234 const-oid 0.9.6

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1.236 sys-info 0.9.1

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1.237 utf8_iter 1.0.4

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The implementation for Utf8CharIndices was adapted from the CharIndices implementation of the Rust standard library at revision ab32548539ec38a939c1b58599249f3b54130026 (<https://github.com/rust-lang/rust/blob/ab32548539ec38a939c1b58599249f3b54130026/library/core/src/str/iter.rs>).

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1.238 tinyvec 1.9.0

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1.239 bash 5.3-r3

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1.240 mpclib 1.3.1-r7

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1.241 open-ldap 2.6.10-r6

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1.242 make 4.4.1-r8

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Version 3, 29 June 2007

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1.249 crc-catalog 2.4.0

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1.257 tracing 0.1.41

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1.258 fnv 1.0.7

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1.259 adler2 2.0.1

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1.260 blake2 0.10.6

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1.261 cpufeatures 0.2.17

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1.262 ptr_meta 0.3.0

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1.263 libz-rs-sys 0.5.1

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1.264 path-slash 0.2.1

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1.265 tempfile 3.20.0

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1.266 futures-sink 0.3.31

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1.267 lock_api 0.4.13

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1.268 sync_wrapper 1.0.2

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1.269 utf8-width 0.1.7

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1.270 stable_deref_trait 1.2.0

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1.271 tower-layer 0.3.3

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1.272 potential_utf 0.1.2

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1.273 simd-adler32 0.3.7

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1.274 http-body 1.0.1

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1.276 simdutf8 0.1.5

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1.278 yoke 0.8.0

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1.279 icu_properties_data 2.0.1

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1.282 zerofrom-derive 0.1.6

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1.283 tinystr 0.8.1

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1.284 idna_adapter 1.2.1

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1.285 futures-task 0.3.31

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1.286 tinyvec_macros 0.1.1

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1.287 procfs-core 0.17.0

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1.290 env_home 0.1.0

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1.291 scopeguard 1.2.0

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1.292 portable-atomic 1.11.1

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1.293 zerofrom 0.1.6

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1.294 try-lock 0.2.5

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1.295 httpdate 1.0.3

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1.296 zerotrie 0.2.2

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1.297 procfs 0.17.0

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metrics from the pseudo-filesystem proc.

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1.303 pin-utils 0.1.0

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1.304 icu_properties 2.0.1

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1.308 synstructure 0.13.2

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1.319 supports-color 3.0.2

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1.320 yoke-derive 0.8.0

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1.322 num-traits 0.2.19

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1.323 ppv-lite86 0.2.21

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1.324 plain 0.2.3

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1.325 supports-hyperlinks 3.1.0

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1.326 mime 0.3.17

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1.327 crypto-common 0.1.6

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```
[ {  
  "id" : "contract_message",  
  "group" : "Alert",
```

```

"subject" : "",
"message" : "<b>Review the updated Paid Applications Schedule.</b><br />In order to update your existing apps,
create new in-app purchases, and submit new apps to the App Store, the user with the Legal role (Team Agent) must
review and accept the Paid Applications Schedule (Schedule 2 to the Apple Developer Program License Agreement)
in the Agreements, Tax, and Banking module.<br /><br /> To accept this agreement, they must have already
accepted the latest version of the Apple Developer Program License Agreement in their <a
href=\"http://developer.apple.com/membercenter/index.action\">account on the developer website<a/>.<br />",
"priority" : null
} ]

```

1.332 tower-service 0.3.3

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1.333 icu_provider 2.0.0

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1.336 is _terminal_polyfill 1.70.1

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1.339 cfg-if 1.0.1

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1.341 dirs 6.0.0

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1.342 mime_guess 2.0.5

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1.343 libcurl-openssl4 8.17.0-r0

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1.344 django 5.2.8

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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 <https://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 <https://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 <https://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	Derived from	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

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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=====

Advice for new contributors

=====

New contributor and not sure what to do? Want to help but just don't know how to get started? This is the section for you.

.. admonition:: Get up and running!

If you are new to contributing to Django, the :doc:`intro/contributing` tutorial will give you an introduction to the tools and the workflow.

This page contains more general advice on ways you can contribute to Django, and how to approach that.

If you are looking for a reference on the details of making code contributions, see the :doc:`internals/contributing/writing-code/index` documentation.

First steps

=====

Start with these steps to discover Django's development process.

Triage tickets

If an `unreviewed ticket`_ reports a bug, try and reproduce it. If you can reproduce it and it seems valid, make a note that you confirmed the bug and accept the ticket. Make sure the ticket is filed under the correct component area.

Consider writing a patch that adds a test for the bug's behavior, even if you don't fix the bug itself. See more at :ref:`how-can-i-help-with-triaging`

Review patches of accepted tickets

This will help you build familiarity with the codebase and processes. Mark the appropriate flags if a patch needs docs or tests. Look through the changes a patch makes, and keep an eye out for syntax that is incompatible with older but still supported versions of Python. :doc:`Run the tests </internals/contributing/writing-code/unit-tests>` and make sure they pass. Where possible and relevant, try them out on a database other than SQLite. Leave comments and feedback!

Keep old patches up-to-date

Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as expected. Updating a patch is both useful and important! See more on

:doc:`writing-code/submitting-patches`.

Write

some documentation

Django's documentation is great but it can always be improved. Did you find a typo? Do you think that something should be clarified? Go ahead and suggest a documentation patch! See also the guide on :doc:`writing-documentation`.

.. note::

The `reports page`_ contains links to many useful Trac queries, including several that are useful for triaging tickets and reviewing patches as suggested above.

.. _reports page: <https://code.djangoproject.com/wiki/Reports>

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_unreviewed ticket: <https://code.djangoproject.com/query?status=!closed&stage=Unreviewed>

Guidelines

=====

As a newcomer on a large project, it's easy to experience frustration. Here's some advice to make your work on Django more useful and rewarding.

Pick a subject area

This should be something that you care about, that you are familiar with or that you want to learn about. You don't already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

Analyze tickets' context and history

Trac isn't an absolute; the context is just as important as the words. When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn't necessarily mean that the idea will still have support. You also need to pay attention to who **hasn't** spoken -- for example, if an experienced contributor hasn't been recently involved in a discussion, then a ticket may not have the support required to get into Django.

Start small

It's easier to get feedback on a little issue than on a big one. See the ``easy pickings`_`.

Confirm support before engaging in a big task

This means getting someone else to confirm that a bug is real before you fix the issue, and ensuring that there's consensus on a proposed feature before you go implementing it.

Be bold! Leave feedback!

Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of any one person. We can't do it without ***you***!

Be cautious when marking things "Ready For Check-in"

If you're really not certain if a ticket is ready, don't mark it as such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on the ``#contributing-getting-started`_` channel in the ``Django Discord server`_` to see if someone else can confirm your suspicions.

.. ``Django Discord server`_`: <https://chat.djangoproject.com>

Wait for feedback, and respond to feedback that you receive

Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some fall by the

wayside ends up doing more harm than good.

Be rigorous

When we say ":pep:`8`, and must have docs and tests", we mean it. If a patch doesn't have docs and tests, there had better be a good reason. Arguments like "I couldn't find any existing tests of this feature" don't carry much weight.

While it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

Be patient

It's not always easy for your ticket or your patch to be reviewed quickly. This isn't personal. There are a lot of tickets and pull requests to get through.

Keeping your patch up to date is important. Review the ticket on Trac to ensure that the **Needs tests**, **Needs documentation**, and **Patch needs improvement** flags are unchecked once you've addressed all review comments.

Remember that Django has an eight-month release cycle, so there's plenty of time for your patch to be reviewed.

Finally, a well-timed reminder can help. See :ref:`contributing code FAQ <new-contributors-faq>` for ideas here.

.. _easy pickings: <https://code.djangoproject.com/query?status=!closed&easy=1>

1.345 num-conv 0.1.0

1.345.1 Available under license :

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1.346 powerfmt 0.2.0

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1.347 time 0.3.44

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1.348 memoffset 0.9.1

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1.349 static_assertions 1.1.0

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1.350 async-trait 0.1.89

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//! This file contains the BSD APIs available in Haiku. It corresponds to the
//! header files in `headers/compatibility/bsd`.

//!

//! Note that Haiku's BSD compatibility is a combination of system APIs and
//! utility libraries. There should only be system APIs in `libc`. When you are
//! trying to determine whether something should be included in this file, the
//! best indicator is whether it also exists in the BSD-specific definitions in
//! this libc crate.

use crate::prelude::*;

// stringlist.h (utility library)

// Note: this is kept because it was previously introduced

pub type StringList = _stringlist;

s! {

// stringlist.h (utility library)

// Note: this is kept because it was previously introduced

pub struct _stringlist {

pub sl_str: *mut *mut c_char,

pub sl_max: size_t,

pub sl_cur: size_t,

}

// sys/event.h

pub struct kevent {

pub ident: crate::uintptr_t,

pub filter: c_short,

pub flags: c_ushort,

pub fflags: c_uint,

pub data: i64,

pub udata: *mut c_void,

pub ext: [u64; 4],

}

// sys/link_elf.h

pub struct dl_phdr_info {

pub dlpi_addr: crate::Elf_Addr,

pub dlpi_name: *const c_char,

```

    pub dlpi_phdr: *const crate::Elf_Phdr,
    pub dlpi_phnum: crate::Elf_Half,
}
}

// sys/event.h
pub const EVFILT_READ: i16 = -1;
pub const EVFILT_WRITE: i16 = -2;
pub const EVFILT_PROC: i16 = -5;
pub const EV_ADD: u16 = 0x0001;
pub const EV_DELETE: u16 = 0x0002;
pub const EV_ONESHOT: u16 = 0x0010;
pub const EV_CLEAR: u16 = 0x0020;
pub const EV_EOF: u16 = 0x8000;
pub const EV_ERROR: u16 = 0x4000;
pub const NOTE_EXIT: u32 = 0x80000000;

// sys/ioccom.h
pub const IOC_VOID: c_ulong = 0x20000000;
pub const IOC_OUT: c_ulong = 0x40000000;
pub const IOC_IN: c_ulong = 0x80000000;
pub const IOC_INOUT: c_ulong = IOC_IN | IOC_OUT;
pub const IOC_DIRMASK: c_ulong = 0xe0000000;

#[link(name = "bsd")]
extern "C" {
    // stdlib.h
    pub fn daemon(nochdir:
c_int, noclose: c_int) -> c_int;
    pub fn getprogname() -> *const c_char;
    pub fn setprogname(progname: *const c_char);
    pub fn arc4random() -> u32;
    pub fn arc4random_uniform(upper_bound: u32) -> u32;
    pub fn arc4random_buf(buf: *mut c_void, n: size_t);
    pub fn mkstemp(template: *mut c_char, suffixlen: c_int) -> c_int;
    pub fn strtonum(
        nptr: *const c_char,
        minval: c_longlong,
        maxval: c_longlong,
        errstr: *mut *const c_char,
    ) -> c_longlong;

    // pty.h
    pub fn openpty(
        amaster: *mut c_int,
        aslave: *mut c_int,
        name: *mut c_char,
        term: *mut crate::termios,

```

```

    winp: *mut crate::winsize,
) -> c_int;
pub fn login_tty(_fd: c_int) -> c_int;
pub fn forkpty(
    amaster: *mut c_int,
    name: *mut c_char,
    term: *mut crate::termios,
    winp: *mut crate::winsize,
) -> crate::pid_t;

// string.h
pub fn strsep(string: *mut *mut c_char, delimiters:
*const c_char) -> *mut c_char;
pub fn explicit_bzero(buf: *mut c_void, len: size_t);

// stringlist.h (utility library)
// Note: this is kept because it was previously introduced
pub fn sl_init() -> *mut StringList;
pub fn sl_add(sl: *mut StringList, n: *mut c_char) -> c_int;
pub fn sl_free(sl: *mut StringList, i: c_int);
pub fn sl_find(sl: *mut StringList, n: *mut c_char) -> *mut c_char;

// sys/event.h
pub fn kqueue() -> c_int;
pub fn kevent(
    kq: c_int,
    changelist: *const kevent,
    nchanges: c_int,
    eventlist: *mut kevent,
    nevents: c_int,
    timeout: *const crate::timespec,
) -> c_int;

// sys/link_elf.h
pub fn dl_iterate_phdr(
    callback: Option<
        unsafe extern "C" fn(info: *mut dl_phdr_info, size: usize, data: *mut c_void) -> c_int,
    >,
    data: *mut c_void,
) -> c_int;

// sys/time.h
pub fn lutimes(file: *const c_char, times: *const crate::timeval)
-> c_int;

// sys/uov.h
pub fn preadv(
    fd: c_int,

```

```

        iov: *const crate::iovec,
        iovcnt: c_int,
        offset: crate::off_t,
    ) -> ssize_t;
pub fn pwritev(
    fd: c_int,
    iov: *const crate::iovec,
    iovcnt: c_int,
    offset: crate::off_t,
) -> ssize_t;

// sys/wait.h
pub fn wait4(
    pid: crate::pid_t,
    status: *mut c_int,
    options: c_int,
    rusage: *mut crate::rusage,
) -> crate::pid_t;
}

```

1.352 hmac 0.12.1

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1.353 inout 0.1.4

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1.354 block-padding 0.3.3

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1.356 num-complex 0.4.6

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1.357 hkdf 0.12.4

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1.359 is-docker 0.2.0

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1.361 libtirpc 1.3.7-r1

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1.362 libuuid 2.41.2-r1

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NR	START	END	SECTORS	SIZE	NAME	UUID
1	32	7679	7648	3.7M		8f8378c0-01
2	7680	16383	8704	4.3M		8f8378c0-02
5	7936	12799	4864	2.4M		
6	12544	16127	3584	1.8M		

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Version 2.1, February 1999

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```

*/
#ifndef UTIL_LINUX_PT_BSD_H
#define UTIL_LINUX_PT_BSD_H

#define BSD_MAXPARTITIONS 16
#define BSD_FS_UNUSED 0

#ifndef BSD_DISKMAGIC
# define BSD_DISKMAGIC ((uint32_t) 0x82564557)
#endif

#define BSD_LINUX_BOOTDIR "/usr/ucb/mdec"

#if defined (__alpha__) || defined (__powerpc__) || \
    defined (__ia64__) || defined (__hppa__)
# define BSD_LABELSECTOR 0
# define BSD_LABELOFFSET 64
#else
# define BSD_LABELSECTOR 1
# define BSD_LABELOFFSET 0
#endif

#define BSD_BBSIZE      8192 /* size of boot area, with label */
#define BSD_SBSIZE      8192 /* max size of fs superblock */

struct bsd_disklabel {
    uint32_t d_magic; /* the magic number */
    int16_t d_type; /* drive type */
    int16_t d_subtype; /* controller/d_type specific */
    char d_typename[16]; /* type name, e.g. "eagle" */
    char d_packname[16]; /* pack identifier */

    /* disk geometry: */
    uint32_t d_sectsize; /*
# of bytes per sector */
    uint32_t d_nsectors; /* # of data sectors per track */
    uint32_t d_ntracks; /* # of tracks per cylinder */
    uint32_t d_ncylinders; /* # of data cylinders per unit */
    uint32_t d_sectpercyl; /* # of data sectors per cylinder */
    uint32_t d_secperunit; /* # of data sectors per unit */

    /*
* Spares (bad sector replacements) below
* are not counted in d_nsectors or d_sectpercyl.
* Spare sectors are assumed to be physical sectors
* which occupy space at the end of each track and/or cylinder.
*/
    uint16_t d_sparestrack; /* # of spare sectors per track */

```

```

uint16_t d_sparepercyl; /* # of spare sectors per cylinder */

/*
 * Alternate cylinders include maintenance, replacement,
 * configuration description areas, etc.
 */
uint32_t d_acylinders; /* # of alt. cylinders per unit */

/* hardware characteristics: */
/*
 * d_interleave, d_trackskew and d_cylskew describe perturbations
 * in the media format used to compensate for a slow
controller.
 * Interleave is physical sector interleave, set up by the formatter
 * or controller when formatting. When interleaving is in use,
 * logically adjacent sectors are not physically contiguous,
 * but instead are separated by some number of sectors.
 * It is specified as the ratio of physical sectors traversed
 * per logical sector. Thus an interleave of 1:1 implies contiguous
 * layout, while 2:1 implies that logical sector 0 is separated
 * by one sector from logical sector 1.
 * d_trackskew is the offset of sector 0 on track N
 * relative to sector 0 on track N-1 on the same cylinder.
 * Finally, d_cylskew is the offset of sector 0 on cylinder N
 * relative to sector 0 on cylinder N-1.
 */
uint16_t d_rpm; /* rotational speed */
uint16_t d_interleave; /* hardware sector interleave */
uint16_t d_trackskew; /* sector 0 skew, per track */
uint16_t d_cylskew; /* sector 0 skew, per cylinder */
uint32_t d_headswitch; /* head switch time, usec */
uint32_t d_trkseek; /*
track-to-track seek, usec */
uint32_t d_flags; /* generic flags */
uint32_t d_drivedata[5]; /* drive-type specific information */
uint32_t d_spare[5]; /* reserved for future use */
uint32_t d_magic2; /* the magic number (again) */
uint16_t d_checksum; /* xor of data incl. partitions */

/* filesystem and partition information: */
uint16_t d_npartitions; /* number of partitions in following */
uint32_t d_bbsize; /* size of boot area at sn0, bytes */
uint32_t d_sbsize; /* max size of fs superblock, bytes */

struct bsd_partition { /* the partition table */
    uint32_t p_size; /* number of sectors in partition */
    uint32_t p_offset; /* starting sector */
    uint32_t p_fsize; /* filesystem basic fragment size */

```

```

uint8_t p_fstype; /* filesystem type, see below */
uint8_t p_frag; /* filesystem fragments per block */
uint16_t p_cpg; /* filesystem cylinders per group */
} __attribute__((packed))
d_partitions[BSD_MAXPARTITIONS]; /* actually may be more */
} __attribute__((packed));

/* d_type values: */
#define BSD_DTYPE_SMD 1 /* SMD, XSMD; VAX hp/up */
#define BSD_DTYPE_MSCP 2 /* MSCP */
#define BSD_DTYPE_DEC 3 /* other DEC (rk, rl) */
#define BSD_DTYPE_SCSI 4 /* SCSI */
#define BSD_DTYPE_ESDI 5 /* ESDI interface */
#define BSD_DTYPE_ST506 6 /* ST506 etc. */
#define BSD_DTYPE_HPIB 7 /* CS/80 on HP-IB */
#define BSD_DTYPE_HPFL 8 /* HP Fiber-link */
#define BSD_DTYPE_FLOPPY 10 /* floppy */

/* d_subtype values: */
#define BSD_DSTYPE_INDOSPART 0x8 /* is inside dos partition */
#define BSD_DSTYPE_DOSPART(s) ((s) & 3) /* dos partition number */
#define BSD_DSTYPE_GEOMETRY 0x10 /* drive params in label */

/*
 * Filesystem type and version.
 * Used to interpret other filesystem-specific
 * per-partition information.
 */
#define BSD_FS_UNUSED 0 /* unused */
#define BSD_FS_SWAP 1 /* swap */
#define BSD_FS_V6 2 /* Sixth Edition */
#define BSD_FS_V7
3 /* Seventh Edition */
#define BSD_FS_SYSV 4 /* System V */
#define BSD_FS_V71K 5 /* V7 with 1K blocks (4.1, 2.9) */
#define BSD_FS_V8 6 /* Eighth Edition, 4K blocks */
#define BSD_FS_BSDFFS 7 /* 4.2BSD fast file system */
#define BSD_FS_BSDLFS 9 /* 4.4BSD log-structured file system */
#define BSD_FS_OTHER 10 /* in use, but unknown/unsupported */
#define BSD_FS_HPFS 11 /* OS/2 high-performance file system */
#define BSD_FS_ISO9660 12 /* ISO-9660 filesystem (cdrom) */
#define BSD_FS_ISOFS BSD_FS_ISO9660
#define BSD_FS_BOOT 13 /* partition contains bootstrap */
#define BSD_FS_ADOS 14 /* AmigaDOS fast file system */
#define BSD_FS_HFS 15 /* Macintosh HFS */
#define BSD_FS_ADVFS 16 /* Digital Unix AdvFS */

```

```

/* this is annoying, but it's also the way it is :-( */
#ifdef __alpha__
#define BSD_FS_EXT2 8 /* ext2 file system */
#else
#define BSD_FS_MSDOS 8 /* MS-DOS file system */
#endif

/*
 * flags shared by various drives:
 */
#define BSD_D_REMOVABLE 0x01 /*
    removable media */
#define BSD_D_ECC      0x02 /* supports ECC */
#define BSD_D_BADSECT 0x04 /* supports bad sector forw. */
#define BSD_D_RAMDISK 0x08 /* disk emulator */
#define BSD_D_CHAIN    0x10 /* can do back-back transfers */
#define BSD_D_DOSPART 0x20 /* within MSDOS partition */

#endif /* UTIL_LINUX_PT_BSD_H */

```

1.363 syn 2.0.108

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1.364 proc-macro2 1.0.103

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1.367 openssl-config-fipshardened 3.6.0-r3

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After argparse 1.1, all project files from the argparse project were deleted due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now.

=====

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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 (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Release	Derived from	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
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes

2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
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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 (now Zope
Corporation, see <http://www.zope.com>). In 2001, the Python Software
Foundation (PSF, see <http://www.python.org/psf/>) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member
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the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for
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Release	Derived from	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
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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1.371 python-3.12-base 3.12.12-r2

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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 <https://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 <https://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 <https://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	Derived from	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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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.373 libxcrypt-dev 4.5.2-r0

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Upstream-Contact: Yann Collet <Cyan4973@github.com>

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1.375 protobuf 24.4

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- * Small optimizations to Python serialization.

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- * VI syntax highlighting tweaks.

- * Fix compiler to not make output executable.

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- * Heuristic detection of sub-messages when printing unknown fields in text format.

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- * Added @Override annotation to generated Java code where appropriate.

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- * Tru64 support.

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- * Solaris 10 + Sun Studio fixes.

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- * Slicing support for repeated scalar fields for the Python API.

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- * MS Visual Studio error format option.
- * Detect unordered_map in stl_hash.m4.

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- * gzip/zlib I/O support.

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- * Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
- * Added generation of field number constants.

Wink Saville <wink@google.com>

- * Fixed initialization ordering problem in logging code.

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- * Small patch improving performance of in Python serialization.

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- * Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

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- * Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>

- * HPUX support.

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- * Detect whether zlib is new enough in configure script.
- * Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>

- * Optimize Java serialization code when writing a small message to a stream.
- * Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
- * Clean up some Java warnings.
- * Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>

- * Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>

- * Fixed m4/acx_pthread.m4 problem for some Linux distributions.

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- * Fixed detection of sched_yield on Solaris.
- * Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>

- * Fixed minor IBM xLC compiler build issues
- * Added atomicops for AIX (POWER)

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- * Provide a type alias field ValueType

on EnumTypeWrapper

- * Match service argument names to abstract interface

1.376 libtirpc 1.3.7-r1

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 */
```

1.377 mysql-9.5 9.5.0-r0

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/*

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*/

#ifndef BOOST_PREDEF_OS_BSD_H

#define BOOST_PREDEF_OS_BSD_H

/* Special case: OSX will define BSD predefs if the sys/param.h

* header is included. We can guard against that, but only if we

* detect OSX first. Hence we will force include OSX detection

* before doing any BSD detection.

*/

#include <boost/predef/os/macos.h>

#include <boost/predef/version_number.h>

#include <boost/predef/make.h>

/* tag::reference[]

= `BOOST\_OS\_BSD`

http://en.wikipedia.org/wiki/Berkeley_Software_Distribution[BSD] operating system.

BSD has various branch operating systems possible and each detected individually. This detects the following variations and sets a specific

version number macro to match:

```
* `BOOST_OS_BSD_DRAGONFLY` http://en.wikipedia.org/wiki/DragonFly\_BSD[DragonFly BSD]
* `BOOST_OS_BSD_FREE` http://en.wikipedia.org/wiki/Freebsd[FreeBSD]
*
  `BOOST_OS_BSD_BSDI` http://en.wikipedia.org/wiki/BSD/OS[BSDi BSD/OS]
* `BOOST_OS_BSD_NET` http://en.wikipedia.org/wiki/Netbsd[NetBSD]
* `BOOST_OS_BSD_OPEN` http://en.wikipedia.org/wiki/Openbsd[OpenBSD]
```

NOTE: The general `BOOST\_OS\_BSD` is set in all cases to indicate some form of BSD. If the above variants is detected the corresponding macro is also set.

```
[options="header"]
```

```
|===
```

```
| {predef_symbol} | {predef_version}
```

```
| `BSD` | {predef_detection}
```

```
| `+_SYSTYPE_BSD+` | {predef_detection}
```

```
| `BSD4_2` | 4.2.0
```

```
| `BSD4_3` | 4.3.0
```

```
| `BSD4_4` | 4.4.0
```

```
| `BSD` | V.R.0
```

```
|===
```

```
*/ // end::reference[]
```

```
#include <boost/predef/os/bsd/bsdi.h>
```

```
#include <boost/predef/os/bsd/dragonfly.h>
```

```
#include <boost/predef/os/bsd/free.h>
```

```
#include <boost/predef/os/bsd/open.h>
```

```
#include <boost/predef/os/bsd/net.h>
```

```
#ifndef BOOST_OS_BSD
```

```
#define BOOST_OS_BSD BOOST_VERSION_NUMBER_NOT_AVAILABLE
```

```
#endif
```

```
#if !defined(BOOST_PREDEF_DETAIL_OS_DETECTED) && ( \
```

```
  defined(BSD) || \
```

```
  defined(_SYSTYPE_BSD)
```

```
 \
```

```
)
```

```
# undef BOOST_OS_BSD
```

```
# include <sys/param.h>
```

```
# if !defined(BOOST_OS_BSD) && defined(BSD4_4)
```

```
#   define BOOST_OS_BSD BOOST_VERSION_NUMBER(4,4,0)
```

```
# endif
```

```
# if !defined(BOOST_OS_BSD) && defined(BSD4_3)
```

```
#   define BOOST_OS_BSD BOOST_VERSION_NUMBER(4,3,0)
```

```

# endif
# if !defined(BOOST_OS_BSD) && defined(BSD4_2)
#   define BOOST_OS_BSD BOOST_VERSION_NUMBER(4,2,0)
# endif
# if !defined(BOOST_OS_BSD) && defined(BSD)
#   define BOOST_OS_BSD BOOST_PREDEF_MAKE_10_VVRR(BSD)
# endif
# if !defined(BOOST_OS_BSD)
#   define BOOST_OS_BSD BOOST_VERSION_NUMBER_AVAILABLE
# endif
#endif

#if BOOST_OS_BSD
#   define BOOST_OS_BSD_AVAILABLE
#   include <boost/predef/detail/os_detected.h>
#endif

#define BOOST_OS_BSD_NAME "BSD"

#endif

#include <boost/predef/os/bsd/bsdi.h>
#include <boost/predef/os/bsd/dragonfly.h>
#include <boost/predef/os/bsd/free.h>
#include <boost/predef/os/bsd/open.h>
#include <boost/predef/os/bsd/net.h>

#include <boost/predef/detail/test.h>
BOOST_PREDEF_DECLARE_TEST(BOOST_OS_BSD,BOOST_OS_BSD_NAME)
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```

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- * MS Visual Studio error format option.
- * Detect unordered_map in stl_hash.m4.

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- * gzip/zlib I/O support.

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- * Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
- * Added generation of field number constants.

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- * Fixed initialization ordering problem in logging code.

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- * Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

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- * Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

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- * HPUX support.

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- * Detect whether zlib is new enough in configure script.
- * Fixes for Solaris 10 32/64-bit confusion.

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- * Optimize Java serialization code when writing a small message to a stream.
- * Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
- * Clean up some Java warnings.
- * Fix bug with permanent callbacks that delete themselves when run.

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- * Added CodedInputStream.getTotalBytesRead().

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- * Fixed m4/acx_pthread.m4 problem for some Linux distributions.

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- * Fixed detection of sched_yield on Solaris.
- * Added atomicops for Solaris

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- * Fixed minor IBM xLC compiler build issues
- * Added atomicops for AIX (POWER)

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- * Provide a type alias field ValueType on EnumTypeWrapper
- * Match service argument names to abstract interface

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1.378 nginx 1.29.3-r1

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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 <https://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 <https://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 <https://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	Derived from	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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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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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 <https://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 <https://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

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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
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1.381 py3.14-pip-base 25.3-r2

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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 (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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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
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
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A. HISTORY OF THE SOFTWARE

=====

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 (now Zope
Corporation, see <http://www.zope.com>). In 2001, the Python Software
Foundation (PSF, see <http://www.python.org/psf/>) was formed, a
non-profit organization created specifically to own Python-related
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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	Derived from	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
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes

3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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Root-Is-Purelib: true

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <https://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 <https://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.

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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		
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1.383 python-3.14-base 3.14.0-r8

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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 <https://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 <https://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 <https://opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes

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Release	Derived from	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		
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(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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- Chris McDonough, 2011/02/16

- Wichert Akkerman, 2012/02/02

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A. HISTORY OF THE SOFTWARE

=====

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 (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is 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	Derived from	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
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
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A. HISTORY OF THE SOFTWARE

=====

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.

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2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
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2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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1.385 libcrypto3 3.6.0-r4

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1.388 [asgiref 3.11.0](#)

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1.389 [brotli 1.2.0-r1](#)

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1.390 wolfi-baselayout 20230201-r24

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No license file was found, but licenses were detected in source scan.

Found in path(s):

*

No license file was found, but licenses were detected in source scan.

package:

name: wolfi-baselayout

version: "20230201"

epoch: 22

description: baselayout data for Wolfi

commit: 02b999ced429d99ef93d726508c5557c5bff07e4

copyright:

- license: MIT

dependencies:

runtime:

- ca-certificates-bundle

provides:

- merged-sbin

- merged-bin

- merged-usrsbin

- merged-lib

checks:

disabled:

- usrmerge

resources: {}

environment:

contents:

build_repositories:

- <https://apk.cgr.dev/chainguard>
- <https://packages.wolfi.dev/os>

keyring:

- <https://packages.wolfi.dev/os/wolfi-signing.rsa.pub>

packages:

- busybox=1.37.0-r46
- ca-certificates-bundle=20241121-r42
- glibc-locale-posix=2.41-r53
- glibc=2.41-r53
- ld-linux=2.41-r53
- libcrypt1=2.41-r53
- libgcc=15.1.0-r1
- libxcrypt=4.4.38-r2
- wolfi-baselayout=20230201-r21

accounts:

run-as: ""

users:

- username: build
- uid: 1000
- gid: 1000
- shell: ""
- homedir: /home/build

groups:

- groupname: build
- gid: 1000
- members:
- build

archs:

- arm64

environment:

GOFLAGS: ""

GOMODCACHE: /var/cache/melange/gomodcache

GOPATH: /home/build/.cache/go

GOTOOLCHAIN: local

HOME: /home/build

JEMALLOC_SYS_WITH_LG_PAGE: "16"

PYTHONHASHSEED: "0"

pipeline:

- name: Generate /etc/shadow

runs: |

```
awk -F: '{
    pw = "!:."
    if ($1 == "root") { pw = ":*." }
    print($1 pw ":0::::")
}' vendor/etc/passwd > vendor/etc/shadow
```

- name: Generate /etc/os-release

```

runs: |
cat >vendor/etc/os-release <<EOF
ID=wolfi
NAME="Wolfi"
PRETTY_NAME="Wolfi"
VERSION_ID="20230201"
HOME_URL="https://wolfi.dev"
BUG_REPORT_URL="https://github.com/wolfi-dev/os/issues"
EOF
- name: Install
runs: |
    for i in dev etc etc/profile.d etc/securefixes.d
home proc root var/log usr/bin usr/local/lib sys tmp var/spool/cron opt run usr/lib; do
    mkdir -p "/home/build/melange-out/wolfi-baselayout"/${i}
done
ln -sf usr/bin /home/build/melange-out/wolfi-baselayout/sbin
ln -sf usr/bin /home/build/melange-out/wolfi-baselayout/bin
ln -sf bin /home/build/melange-out/wolfi-baselayout/usr/sbin
ln -sf usr/lib /home/build/melange-out/wolfi-baselayout/lib
ln -sf usr/lib /home/build/melange-out/wolfi-baselayout/lib64
ln -sf lib /home/build/melange-out/wolfi-baselayout/usr/lib64
ln -sf lib /home/build/melange-out/wolfi-baselayout/usr/local/lib64
for i in etc/passwd etc/group etc/shadow etc/services etc/hosts etc/profile etc/shells etc/protocols
etc/profile.d/locale.sh etc/nsswitch.conf etc/os-release etc/securefixes.d/wolfi; do
    install -m644 vendor/${i} "/home/build/melange-out/wolfi-baselayout"/${i}
done
install -m600 vendor/etc/shadow "/home/build/melange-out/wolfi-baselayout"/etc/shadow
ln -s /etc/crontabs "/home/build/melange-out/wolfi-baselayout"/var/spool/cron/crontabs
ln -s /proc/mounts "/home/build/melange-out/wolfi-baselayout"/etc/mtab
ln -s /var/mail "/home/build/melange-out/wolfi-baselayout"/var/spool/mail
echo 'multi on' >"/home/build/melange-out/wolfi-baselayout"/etc/host.conf
chmod 0700 "/home/build/melange-out/wolfi-baselayout"/root
mkdir -p "/home/build/melange-out/wolfi-baselayout"/var/empty
chmod 755 "/home/build/melange-out/wolfi-baselayout"/var/empty
update:
enabled: false
manual: false
require-sequential: false
exclude-reason: wolfi-baselayout is a static layout package
test:
environment:
contents:
packages:
- wolfi-baselayout
accounts:
run-as: ""
users:
- username: build

```



```

uid: 1000
gid: 1000
shell: ""
homedir: ""
groups:
- groupname: build
  gid: 1000
  members:

- build
pipeline:
- name: Files exist
  runs: |
    test -f /etc/passwd
    test -f /etc/shadow
    test -f /etc/os-release
    test -f /etc/host.conf
    test -d /var/empty
- name: Scanner expectations
  runs: |
    grep 'ID=wolfi' /etc/os-release
    grep 'VERSION_ID="20230201"' /etc/os-release

Found in path(s):
* /wolfi-baselayout-20230201-r22-2-zip/wolfi-baselayout-20230201-r22/.melange.yaml

```

1.391 ncurses 6.5_p20251025-r1

1.391.1 Available under license :

Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>
Upstream-Name: ncurses
Upstream-Contact: Thomas E. Dickey <dickey@invisible-island.net>
Source: <https://invisible-island.net/ncurses/ncurses.html>

Files: *

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Comment:

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Files: aclocal.m4 package

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Files: doc/html/NCURSES-Programming-HOWTO.html

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Files: misc/ncu2openbsd
ncurses/wcwidth.h

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Files: install-sh

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Files: ncurses/tinfo/read_termcap.c
progs/tset.c

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Upstream-Name: AdaCurses

Upstream-Contact: Thomas E. Dickey <dickey@invisible-island.net>

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1.392 cyrus-sasl 2.1.28-r45

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 * Rob Earhart
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1.393 krb5-conf 1.0-r7

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cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
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lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
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lib/libgss/g_inquire_names.c
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lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
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lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c

lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in

"src/lib/gssapi", including the following files:

- lib/gssapi/generic/gssapi_err_generic.et
- lib/gssapi/mechglue/g_accept_sec_context.c
- lib/gssapi/mechglue/g_acquire_cred.c
- lib/gssapi/mechglue/g_canon_name.c
- lib/gssapi/mechglue/g_compare_name.c
- lib/gssapi/mechglue/g_context_time.c
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- lib/gssapi/mechglue/g_dsp_name.c
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- lib/gssapi/mechglue/g_dup_name.c
- lib/gssapi/mechglue/g_exp_sec_context.c
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- lib/gssapi/mechglue/g_imp_name.c
- lib/gssapi/mechglue/g_imp_sec_context.c
- lib/gssapi/mechglue/g_init_sec_context.c
- lib/gssapi/mechglue/g_initialize.c
- lib/gssapi/mechglue/g_inquire_context.c
- lib/gssapi/mechglue/g_inquire_cred.c
- lib/gssapi/mechglue/g_inquire_names.c
- lib/gssapi/mechglue/g_process_context.c
- lib/gssapi/mechglue/g_rel_buffer.c
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- lib/gssapi/mechglue/g_unseal.c
- lib/gssapi/mechglue/g_userok.c
- lib/gssapi/mechglue/g_utils.c
- lib/gssapi/mechglue/g_verify.c
- lib/gssapi/mechglue/gssd_pname_to_uid.c
- lib/gssapi/mechglue/mglueP.h
- lib/gssapi/mechglue/oid_ops.c
- lib/gssapi/spnego/gssapiP_spnego.h
- lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

- include/iprop_hdr.h
- kadmin/server/ipropd_svc.c
- lib/kdb/iprop.x
- lib/kdb/kdb_convert.c
- lib/kdb/kdb_log.c

lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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```
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */  
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1.395 git 2.52.0-r0

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1.396 posix-cc-wrappers 2-r7

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1.398 zlib 1.3.1-r51

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1.399 sqlite 3.51.0-r0

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```
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```

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```
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```

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autosetup - A build environment "autoconfigurator"

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1.400 openssl 3.6.0-r4

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1.401 build-base 1-r9

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package:

name: py3-license-expression

version: "30.4.4"

epoch: 1

description: license-expression is a comprehensive utility library to parse, compare, simplify and normalize license expressions (such as SPDX license expressions) using boolean logic.

copyright:

- license: Apache-2.0

dependencies:

provider-priority: 0

vars:

pypi-package: license-expression

import: license_expression

data:

- name: py-versions

items:

3.10: '310'

3.11: '311'

3.12: '312'

3.13: '313'

environment:

contents:

packages:

- py3-supported-build-base

pipeline:

- uses: git-checkout

with:

repository: <https://github.com/nexB/license-expression>

tag: v\${{package.version}}

expected-commit: a3c00c09986bcca1240afd5b1844b56de3f581c1

subpackages:

- range: py-versions

name: py\${{range.key}}-\${{vars.pypi-package}}

description: python\${{range.key}} version of \${{vars.pypi-package}}

dependencies:

provider-priority: \${{range.value}}

```

provides:
  - ${{package.name}}
  - py3-${{vars.pypi-package}}
runtime:
  - py${{range.key}}-boolean.py
pipeline:
  - uses: py/pip-build-install
  with:
    python: python${{range.key}}
  - uses: strip
test:
  pipeline:
    - uses: python/import
    with:
      python: python${{range.key}}
      imports: |
        import ${{vars.import}}

- name: py3-supported-${{vars.pypi-package}}
  description: meta package providing ${{vars.pypi-package}} for supported python versions.
  dependencies:
    runtime:
      - py3.10-${{vars.pypi-package}}
      - py3.11-${{vars.pypi-package}}
      - py3.12-${{vars.pypi-package}}
      - py3.13-${{vars.pypi-package}}
    test:
      pipeline:
        - uses: test/metapackage

test:
  pipeline:
    - uses: python/import
    with:
      imports: |
        import ${{vars.import}}

update:
  enabled: true
  github:
    identifier: nexB/license-expression
    strip-prefix: v
package:
  name: libart-lgpl
  version: 2.3.21
  epoch: 2
  description: A library for high-performance 2D graphics
  copyright:

```

- license: LGPL-2.0-or-later

environment:

contents:

packages:

- autoconf
- automake
- build-base
- busybox
- ca-certificates-bundle
- libtool

pipeline:

- uses: fetch

with:

expected-sha256: fdc11e74c10fc9ffe4188537e2b370c0abacca7d89021d4d303afdf7fd7476fa

uri: [https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-\\${package.version}.tar.bz2](https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-${package.version}.tar.bz2)

- runs: |

libtoolize --force && aclocal && autoconf --force && automake --add-missing

- runs: autoreconf -vif

- uses: autoconf/configure

with:

opts: |

--disable-static

- uses: autoconf/make

- uses: autoconf/make-install

- uses: strip

subpackages:

- name: libart-lgpl-dev

pipeline:

- uses: split/dev

dependencies:

runtime:

- libart-lgpl

description: libart-lgpl dev

test:

pipeline:

- runs: |

libart2-config --version

- uses: test/pkgconf

- uses: test/tw/ldd-check

update:

enabled: true

release-monitor:

identifier: 21864

test:

pipeline:

- uses: test/tw/ldd-check

package:

name: go-licenses

version: "2.0.1"

epoch: 0

description: A lightweight tool to report on the licenses used by a Go package and its dependencies. Highlight!
Versioned external URL to licenses can be found at the same time.

copyright:

- license: Apache-2.0

pipeline:

- uses: git-checkout

with:

repository: <https://github.com/google/go-licenses>

tag: v\${{package.version}}

expected-commit: 3e084b0caf710f7bfead967567539214f598c0a2

- uses: go/build

with:

modroot: .

packages: .

output: go-licenses

update:

enabled: true

github:

identifier: google/go-licenses

strip-prefix: v

test:

pipeline:

AUTOGENERATED

- runs: |

go-licenses --help

issuer: <https://accounts.google.com>

staging-enforce: ci-license-checka7daalc99klekq@staging-enforce-cd1e.iam.gserviceaccount.com
(111508570611001124410)

prod-images: TODO

subject_pattern: "(111508570611001124410)"

permissions:

checks: write

pull_requests: write # need to comment on PRs

1.402 mpc 1.3.1-r7

1.402.1 Available under license :

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1.403 pcre2 10.47-r0

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=====

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Email domain: gmail.com

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PCRE2 Just-In-Time compilation support

Written by: Zoltan Herczeg
Email local part: hzmester
Email domain: freemail.hu

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Stack-less Just-In-Time compiler

Written by: Zoltan Herczeg
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1.404 util-linux 2.41.2-r1

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	NR	START	END	SECTORS	SIZE	NAME	UUID
1	32	7679	7648	3.7M		8f8378c0-01	
2	7680	16383	8704	4.3M		8f8378c0-02	
5	7936	12799	4864	2.4M			
6	12544	16127	3584	1.8M			

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*/

#ifndef UTIL_LINUX_PT_BSD_H

#define UTIL_LINUX_PT_BSD_H

#define BSD_MAXPARTITIONS 16

#define BSD_FS_UNUSED 0

#ifndef BSD_DISKMAGIC

define BSD_DISKMAGIC ((uint32_t) 0x82564557)

#endif

#define BSD_LINUX_BOOTDIR "/usr/ucb/mdec"

#if defined (__alpha__) || defined (__powerpc__) || \
defined (__ia64__) || defined (__hppa__)

define BSD_LABELSECTOR 0

define BSD_LABELOFFSET 64

#else

define BSD_LABELSECTOR 1

define BSD_LABELOFFSET 0

#endif

#define BSD_BBSIZE 8192 /* size of boot area, with label */

#define BSD_SBSIZE 8192 /* max size of fs superblock */

struct bsd_disklabel {

uint32_t d_magic; /* the magic number */

int16_t d_type; /* drive type */

int16_t d_subtype; /* controller/d_type specific */

char d_typename[16]; /* type name, e.g. "eagle" */

char d_packname[16]; /* pack identifier */

/* disk geometry: */

uint32_t d_sectsize; /*

of bytes per sector */

uint32_t d_nsectors; /* # of data sectors per track */

```

uint32_t d_ntracks; /* # of tracks per cylinder */
uint32_t d_ncylinders; /* # of data cylinders per unit */
uint32_t d_secpercyl; /* # of data sectors per cylinder */
uint32_t d_secperunit; /* # of data sectors per unit */

/*
 * Spares (bad sector replacements) below
 * are not counted in d_nsectors or d_secpercyl.
 * Spare sectors are assumed to be physical sectors
 * which occupy space at the end of each track and/or cylinder.
 */
uint16_t d_spaespertrack; /* # of spare sectors per track */
uint16_t d_spaespercyl; /* # of spare sectors per cylinder */

/*
 * Alternate cylinders include maintenance, replacement,
 * configuration description areas, etc.
 */
uint32_t d_acylinders; /* # of alt. cylinders per unit */

/* hardware characteristics: */
/*
 * d_interleave, d_trackskew and d_cylskew describe perturbations
 * in the media format used to compensate for a slow
controller.
 * Interleave is physical sector interleave, set up by the formatter
 * or controller when formatting. When interleaving is in use,
 * logically adjacent sectors are not physically contiguous,
 * but instead are separated by some number of sectors.
 * It is specified as the ratio of physical sectors traversed
 * per logical sector. Thus an interleave of 1:1 implies contiguous
 * layout, while 2:1 implies that logical sector 0 is separated
 * by one sector from logical sector 1.
 * d_trackskew is the offset of sector 0 on track N
 * relative to sector 0 on track N-1 on the same cylinder.
 * Finally, d_cylskew is the offset of sector 0 on cylinder N
 * relative to sector 0 on cylinder N-1.
 */
uint16_t d_rpm; /* rotational speed */
uint16_t d_interleave; /* hardware sector interleave */
uint16_t d_trackskew; /* sector 0 skew, per track */
uint16_t d_cylskew; /* sector 0 skew, per cylinder */
uint32_t d_headswitch; /* head switch time, usec */
uint32_t d_trkseek; /*
track-to-track seek, usec */
uint32_t d_flags; /* generic flags */
uint32_t d_drivedata[5]; /* drive-type specific information */
uint32_t d_spare[5]; /* reserved for future use */

```

```

uint32_t d_magic2; /* the magic number (again) */
uint16_t d_checksum; /* xor of data incl. partitions */

/* filesystem and partition information: */
uint16_t d_npartitions; /* number of partitions in following */
uint32_t d_bbsize; /* size of boot area at sn0, bytes */
uint32_t d_sbsize; /* max size of fs superblock, bytes */

struct bsd_partition { /* the partition table */
    uint32_t p_size; /* number of sectors in partition */
    uint32_t p_offset; /* starting sector */
    uint32_t p_fsize; /* filesystem basic fragment size */
    uint8_t p_fstype; /* filesystem type, see below */
    uint8_t p_frag; /* filesystem fragments per block */
    uint16_t p_cpg; /* filesystem cylinders per group */
} __attribute__((packed))
d_partitions[BSD_MAXPARTITIONS]; /* actually may be more */
} __attribute__((packed));

/* d_type values: */
#define BSD_DTYPE_SMD 1 /* SMD, XSMD; VAX hp/up */
#define BSD_DTYPE_MSCP 2 /* MSCP */
#define BSD_DTYPE_DEC 3 /* other DEC (rk, rl) */
#define BSD_DTYPE_SCSI 4 /* SCSI */
#define BSD_DTYPE_ESDI 5 /* ESDI interface */
#define BSD_DTYPE_ST506 6 /* ST506 etc. */
#define BSD_DTYPE_HPIB 7 /* CS/80 on HP-IB */
#define BSD_DTYPE_HPFL 8 /* HP Fiber-link */
#define BSD_DTYPE_FLOPPY 10 /* floppy */

/* d_subtype values: */
#define BSD_DSTYPE_INDOSPART 0x8 /* is inside dos partition */
#define BSD_DSTYPE_DOSPART(s) ((s) & 3) /* dos partition number */
#define BSD_DSTYPE_GEOMETRY 0x10 /* drive params in label */

/*
 * Filesystem type and version.
 * Used to interpret other filesystem-specific
 * per-partition information.
 */
#define BSD_FS_UNUSED 0 /* unused */
#define BSD_FS_SWAP 1 /* swap */
#define BSD_FS_V6 2 /* Sixth Edition */
#define BSD_FS_V7
    3 /* Seventh Edition */
#define BSD_FS_SYSV 4 /* System V */
#define BSD_FS_V71K 5 /* V7 with 1K blocks (4.1, 2.9) */

```

```

#define BSD_FS_V8      6 /* Eighth Edition, 4K blocks */
#define BSD_FS_BSDFFS 7 /* 4.2BSD fast file system */
#define BSD_FS_BSDLFS 9 /* 4.4BSD log-structured file system */
#define BSD_FS_OTHER 10 /* in use, but unknown/unsupported */
#define BSD_FS_HPFS 11 /* OS/2 high-performance file system */
#define BSD_FS_ISO9660 12 /* ISO-9660 filesystem (cdrom) */
#define BSD_FS_ISOFS BSD_FS_ISO9660
#define BSD_FS_BOOT 13 /* partition contains bootstrap */
#define BSD_FS_ADOS 14 /* AmigaDOS fast file system */
#define BSD_FS_HFS 15 /* Macintosh HFS */
#define BSD_FS_ADVFS 16 /* Digital Unix AdvFS */

/* this is annoying, but it's also the way it is :-( */
#ifdef __alpha__
#define BSD_FS_EXT2 8 /* ext2 file system */
#else
#define BSD_FS_MSDOS 8 /* MS-DOS file system */
#endif

/*
 * flags shared by various drives:
 */
#define BSD_D_REMOVABLE 0x01 /*
    removable media */
#define BSD_D_ECC      0x02 /* supports ECC */
#define BSD_D_BADSECT 0x04 /* supports bad sector forw. */
#define BSD_D_RAMDISK 0x08 /* disk emulator */
#define BSD_D_CHAIN    0x10 /* can do back-back transfers */
#define BSD_D_DOSPART 0x20 /* within MSDOS partition */

#endif /* UTIL_LINUX_PT_BSD_H */

```

1.405 openssl 3.6.0-r4

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.408 xml-rs 0.8.27

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1.409 openssl-fips-test 0.6-r0

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1.414 reqsign-http-send-request 2.0.1

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1.415 clap_builder 4.5.53

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