Open Source Used In Intersight Kubernetes Service 1.0.15

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Text Part Number: 78EE117C99-1238855809
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Contents

1.1 prr 1.0.1
   1.1.1 Available under license
1.2 libxdata 2:1.6.7 1+deb10u1
   1.2.1 Available under license
1.3 libkrbsupport 1.17 3+deb10u3
   1.3.1 Available under license
1.4 encoding 0.1.13
   1.4.1 Available under license
1.5 pgdg-keyring 2018.2
   1.5.1 Available under license
1.6 cookie-signature 1.0.6
   1.6.1 Available under license
1.7 lock-verify 2.1.0
   1.7.1 Available under license
1.8 libuv 1.18.0 3
   1.8.1 Available under license
1.9 shadow-utils 4.6-11.el8
   1.9.1 Available under license
1.10 get-symbol-description 1.0.0
   1.10.1 Available under license
1.11 githubcomsirupsenlogrus 1.8.1
   1.11.1 Available under license
1.12 file-libs 5.33-16.el8_3.1
   1.12.1 Available under license
1.13 github.com/kubernetes-csi/csi-lib-utils 0.8.1
   1.13.1 Available under license
1.14 golang-org-x-time 0.0.0-20200416051211-89c76fbcdb5d1
   1.14.1 Available under license
1.15 slide 1.1.6
   1.15.1 Available under license
1.16 tar 1.30-5.el8
   1.16.1 Available under license
1.17 lodash-baseindexof 3.1.0
   1.17.1 Available under license
1.18 libyaml 0.1.7-5.el8
   1.18.1 Available under license
1.19 https-proxy-agent 5.0.0
   1.19.1 Available under license
1.20 perl-file-path 2.15-2.el8
   1.20.1 Available under license
1.21 rootfiles 8.1-22.el8
   1.21.1 Available under license
1.22 lodash-baseuniq 4.6.0
   1.22.1 Available under license
1.23 p-finally 1.0.0
   1.23.1 Available under license
1.24 fonts-dejavu-core 2.37-1
   1.24.1 Available under license
1.25 libhogweed 3.4.1 1+deb10u1
   1.25.1 Available under license
1.26 xz 5.2.4-3.el8
   1.26.1 Available under license
1.27 golang-org-x-sync 0.0.0-20210220032951-036812b2e83c
   1.27.1 Available under license
1.28 libnpt0 1.6 1
   1.28.1 Available under license
1.29 libgssapikrb 1.16 2ubuntu0.2
   1.29.1 Available under license
1.30 btrfs-tools 4.15.1 1build1
   1.30.1 Available under license
1.31 mysql-community-client 5.7.36-1debian10
   1.31.1 Available under license
1.32 json iterator go 1.1.10
   1.32.1 Available under license
1.33 go-hclog 0.12.2
1.33.1 Available under license
1.34 gopkg-in-yaml-v2 2.2.8
1.34.1 Available under license
1.35 socks 2.3.3
1.35.1 Available under license
1.36 libassuan 2.5.1 2
1.36.1 Available under license
1.37 bsdutils 1:2.29.2-1+deb9u1
1.37.1 Available under license
1.38 openssh-sftp-server 1:7.6p1 4ubuntu0.5
1.38.1 Available under license
1.39 property-expr 2.0.4
1.39.1 Available under license
1.40 jaeger-client-go 2.20.0+incompatible
1.40.1 Available under license
1.41 libisccc161 1:9.11.5.P4+dfsg 5.1+deb10u5
1.41.1 Available under license
1.42 emacs-filesystem 26.1-5.el8
1.42.1 Available under license
1.43 internal-slot 1.0.3
1.43.1 Available under license
1.44 protobufjs-codegen 2.0.4
1.44.1 Available under license
1.45 grub-common 2.02 2ubuntu8.23
1.45.1 Available under license
1.46 libfstrm 0.4.0 1
1.46.1 Available under license
1.47 apollo-reporting-protobuf 0.8.0
1.47.1 Available under license
1.48 d-bus 1.12.8-12.el8_3
1.48.1 Available under license
1.49 send 0.17.1
1.49.1 Available under license
1.50 githubcomgoopenapivalidate 0.20.2
1.50.1 Available under license
1.51 conntrack 1:1.4.5 2
1.51.1 Available under license
1.52 libnet 1.1.6+dfsg 3.1
1.52.1 Available under license
1.53 chownr 1.1.4
   1.53.1 Available under license
1.54 gnupg-l10n 2.2.4 1ubuntu1.4
   1.54.1 Available under license
1.55 google-golang-org-genproto 0.0.0-20200526211855-cb27e3aa2013
   1.55.1 Available under license
1.56 rtnetlink 0.0.0-20210713125558-2bfdf1dbdbd6
   1.56.1 Available under license
1.57 libbind9-161 1:9.11.5.P4+dfsg 5.1+deb10u5
   1.57.1 Available under license
1.58 acl 2.2.52 3build1
   1.58.1 Available under license
1.59 golang-org-x-crypto 0.0.0-20210317152858-513c2a44f670
   1.59.1 Available under license
1.60 minipass-fetch 1.4.1
   1.60.1 Available under license
1.61 redhatrelease 8.2-1.0.el8
   1.61.1 Available under license
1.62 libevent 2.1.8 stable-4build1
   1.62.1 Available under license
1.63 libuuuid 2.32.1-24.el8
   1.63.1 Available under license
1.64 bsdutils 1:2.31.1 0.4ubuntu3.7
   1.64.1 Available under license
1.65 libgeoip 1.6.12 1
   1.65.1 Available under license
1.66 ansi-styles 4.3.0
   1.66.1 Available under license
1.67 @gar/promisify 1.1.2
   1.67.1 Available under license
1.68 go-uber-org-zap 1.12.0
   1.68.1 Available under license
1.69 negotiator 0.6.2
   1.69.1 Available under license
1.70 mime-types 2.1.32
   1.70.1 Available under license
1.71 byte-size 5.0.1
   1.71.1 Available under license
1.72 godo 1.65.0
1.72.1 Available under license

1.73 libmnl0 1.0.4 2
1.73.1 Available under license

1.74 google-apis 1.4.0
1.74.1 Available under license

1.75 opentracing-go 1.2.0
1.75.1 Available under license

1.76 libkeyutils 1.5.9 9.2ubuntu2
1.76.1 Available under license

1.77 libglib 2.56.4 0ubuntu0.18.04.8
1.77.1 Available under license

1.78 githubcomspf13viper 1.5.0
1.78.1 Available under license

1.79 k8s.io/kube-state-metrics/v2 2.2.3
1.79.1 Available under license

1.80 readline 7.0-10.el8
1.80.1 Available under license

1.81 execa 5.0.0
1.81.1 Available under license

1.82 go-uber-org-multierr 1.6.0
1.82.1 Available under license

1.83 githubcomgolangprotobuf 1.5.1
1.83.1 Available under license

1.84 libapt pkg 1.6.14
1.84.1 Available under license

1.85 vary 1.1.2
1.85.1 Available under license

1.86 libsigsegv 2.12 1
1.86.1 Available under license

1.87 qs 6.7.0
1.87.1 Available under license

1.88 tzdata 2021a 0+deb10u1
1.88.1 Available under license

1.89 libkrb 1.17 3+deb10u2
1.89.1 Available under license

1.90 k8s-io-client-go 0.22.0
1.90.1 Available under license

1.91 net-tools 1.60+git20161116.90da8a0 1ubuntu1
1.91.1 Available under license
<table>
<thead>
<tr>
<th>Version</th>
<th>Package</th>
<th>Version Information</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.92</td>
<td>libaudit-common</td>
<td>1:2.8.4 3</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.93</td>
<td>ms</td>
<td>2.1.1</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.94</td>
<td>libfreetype</td>
<td>2.9.1 3+deb10u1</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.95</td>
<td>groff-base</td>
<td>1.22.3-18.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.96</td>
<td>openssh</td>
<td>1:7.6p1 4ubuntu0.5</td>
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<tr>
<td>1.97</td>
<td>dpkg-dev</td>
<td>1.19.0.5ubuntu2.3</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.98</td>
<td>json-c</td>
<td>0.13.1-0.2.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.99</td>
<td>openssl</td>
<td>1.1d-0+deb10u3</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.100</td>
<td>grub-efi-amd64-signed</td>
<td>1.167~18.04.5+2.04 1ubuntu44.1.2</td>
<td>Available under license</td>
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<tr>
<td>1.101</td>
<td>agent-base</td>
<td>6.0.2</td>
<td>Available under license</td>
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<tr>
<td>1.102</td>
<td>go-stdlib</td>
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<td>kmod</td>
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<td>Available under license</td>
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<td>perl-io</td>
<td>1.38-417.el8_3</td>
<td>Available under license</td>
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<td>1.105</td>
<td>streamsearch</td>
<td>0.1.2</td>
<td>Available under license</td>
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<tr>
<td>1.106</td>
<td>agent-base</td>
<td>4.2.1</td>
<td>Available under license</td>
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<td>errno</td>
<td>0.1.7</td>
<td>Available under license</td>
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<td>ansi-regex</td>
<td>2.1.1</td>
<td>Available under license</td>
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<td>protoc-gen-validate</td>
<td>0.6.1</td>
<td>Available under license</td>
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<td>gmp</td>
<td>6.1.2-10.el8</td>
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<td>Version</td>
<td>Description</td>
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<td>is-bigint 1.0.4</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>1.113.1</td>
<td>Available under license</td>
<td></td>
<td></td>
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<tr>
<td>1.114</td>
<td>mount 2.33.1 0.1</td>
<td></td>
<td></td>
</tr>
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<td>Available under license</td>
<td></td>
<td></td>
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<tr>
<td>1.115</td>
<td>balanced-match 1.0.0</td>
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<td></td>
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<td>Available under license</td>
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<td>1.119</td>
<td>sonic-boom 2.3.0</td>
<td></td>
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<td></td>
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<td>supports-color 7.2.0</td>
<td></td>
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<td>Available under license</td>
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<td>git-core-doc 2.27.0-1.el8</td>
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<td>1.123</td>
<td>libsepol 2.6-2</td>
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<td></td>
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<td>Available under license</td>
<td></td>
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<td>1.124</td>
<td>perl-error 0.17025-2.el8</td>
<td></td>
<td></td>
</tr>
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<td>1.124.1</td>
<td>Available under license</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.125</td>
<td>dirmngr 2.2.12 1+deb10u1</td>
<td></td>
<td></td>
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<td>1.125.1</td>
<td>Available under license</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.126</td>
<td>go-rootcerts 1.0.2</td>
<td></td>
<td></td>
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<td>Available under license</td>
<td></td>
<td></td>
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<td>1.127</td>
<td>libstd-c 8.4.0 1ubuntu1~18.04</td>
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<td>Available under license</td>
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<td>s6-ipcserver 2.10.0.3-r0</td>
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<td>1.129.1</td>
<td>Available under license</td>
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<td></td>
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<td>1.130</td>
<td>protobufjs-aspromise 1.1.2</td>
<td></td>
<td></td>
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<td>1.130.1</td>
<td>Available under license</td>
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<td></td>
</tr>
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</table>
1.131 compress 1.13.4
    1.131.1 Available under license
1.132 k8s-io-apimachinery 0.19.2
    1.132.1 Available under license
1.133 subscription-manager 1.27.18-1.el8_3
    1.133.1 Available under license
1.134 oidc-token-hash 5.0.1
    1.134.1 Available under license
1.135 npm-run-path 4.0.1
    1.135.1 Available under license
1.136 k8s-io-client-go 0.19.2
    1.136.1 Available under license
1.137 procfs 0.7.2
    1.137.1 Available under license
1.138 postgresql-client-common 231.pgdg100+1
    1.138.1 Available under license
1.139 binutils 2.30 21ubuntu1~18.04.5
    1.139.1 Available under license
1.140 libcap-ng 0.7.7 3.1
    1.140.1 Available under license
1.141 @npmcli/move-file 1.1.2
    1.141.1 Available under license
1.142 color-name 1.1.3
    1.142.1 Available under license
1.143 shim-signed 1.37~18.04.10+15.4 0ubuntu7
    1.143.1 Available under license
1.144 find-npm-prefix 1.0.2
    1.144.1 Available under license
1.145 copy-concurrently 1.0.5
    1.145.1 Available under license
1.146 bzip2 1.0.6 8.1ubuntu0.2
    1.146.1 Available under license
1.147 libncurses 6.1 1ubuntu1.18.04
    1.147.1 Available under license
1.148 libpammodulesbin 1.3.1 5
    1.148.1 Available under license
1.149 libcilkrts 7.5.0 3ubuntu1~18.04
    1.149.1 Available under license
1.150 intern 1.0.0
1.150.1 Available under license

1.151 **snappy 0.0.3**
1.151.1 Available under license

1.152 **xss 1.0.10**
1.152.1 Available under license

1.153 **k8s.io/kube-state-metrics 1.9.5**
1.153.1 Available under license

1.154 **apollo-server-core 2.25.2**
1.154.1 Available under license

1.155 **selinux-policy-targeted 3.14.3-54.el8_3.3**
1.155.1 Available under license

1.156 **deep-equal 2.0.5**
1.156.1 Available under license

1.157 **template 0.0.0-20190718012654-fb15b899a751**
1.157.1 Available under license

1.158 **apt 1.8.2.1**
1.158.1 Available under license

1.159 **signal-exit 3.0.3**
1.159.1 Available under license

1.160 **call-limit 1.1.1**
1.160.1 Available under license

1.161 **golang-org-x-time 0.0.0-20191024005414-555d28b269f0**
1.161.1 Available under license

1.162 **liblsan 8.4.0 1ubuntu1~18.04**
1.162.1 Available under license

1.163 **cli-columns 3.1.2**
1.163.1 Available under license

1.164 **xxhash 1.1.0**
1.164.1 Available under license

1.165 **spdx-license-ids 3.0.5**
1.165.1 Available under license

1.166 **gopkg-in-yaml-v2 2.3.0**
1.166.1 Available under license

1.167 **libudev 232-25+deb9u11**
1.167.1 Available under license

1.168 **object-inspect 1.11.0**
1.168.1 Available under license

1.169 **chalk 4.1.2**
1.169.1 Available under license
1.170 githubcomgoopenapistrfmt 0.20.2
   1.170.1 Available under license
1.171 libbz 1.0.8-r1
   1.171.1 Available under license
1.172 timed-out 4.0.1
   1.172.1 Available under license
1.173 is-symbol 1.0.2
   1.173.1 Available under license
1.174 gnupg-utils 2.2.12 1+deb10u1
   1.174.1 Available under license
1.175 linux-headers-virtual 4.15.0.156.145
   1.175.1 Available under license
1.176 libxrender 1:0.9.10 1
   1.176.1 Available under license
1.177 tzdata 2021a 0+deb10u2
   1.177.1 Available under license
1.178 github.com/kubernetes-csi/external-snapshotter/client/v2 2.2.0-rc3
   1.178.1 Available under license
1.179 glibc-langpack-en 2.28-101.el8
   1.179.1 Available under license
1.180 libprotobuf 3.6.1.3-2
   1.180.1 Available under license
1.181 cross-spawn 5.1.0
   1.181.1 Available under license
1.182 mime-types 2.1.19
   1.182.1 Available under license
1.183 libpolkitgobject 0.105 2ubuntu0.18.04.5
   1.183.1 Available under license
1.184 expat 2.2.5-4.el8
   1.184.1 Available under license
1.185 openssl-libs 1.1.1c-15.el8
   1.185.1 Available under license
1.186 lodash._bindcallback 3.0.1
   1.186.1 Available under license
1.187 spdx-expression-parse 3.0.0
   1.187.1 Available under license
1.188 githubcomgoopenapiswag 0.19.5
   1.188.1 Available under license
1.189 libffi 3.2.1 8
Open Source Used In Intersight Kubernetes Service 1.0.15

1.189.1 Available under license
1.190 libpammodulesbin 1.1.8-3.6
   1.190.1 Available under license
1.191 go-autorest 0.9.13
   1.191.1 Available under license
1.192 libIntl 0.21-r0
   1.192.1 Available under license
1.193 commander 2.20.3
   1.193.1 Available under license
1.194 types-istanbul-lib-coverage 2.0.3
   1.194.1 Available under license
1.195 is-installed-globally 0.1.0
   1.195.1 Available under license
1.196 decompress-response 6.0.0
   1.196.1 Available under license
1.197 global-dirs 0.1.1
   1.197.1 Available under license
1.198 go-autorest 0.4.0
   1.198.1 Available under license
1.199 are-we-there-yet 1.1.4
   1.199.1 Available under license
1.200 types-http-errors 1.8.1
   1.200.1 Available under license
1.201 netbase 6.1~bpo10+1
   1.201.1 Available under license
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1.6 cookie-signature 1.0.6

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```
# cookie-signature

Sign and unsign cookies.

## Example

```js
var cookie = require('cookie-signature');

var val = cookie.sign('hello', 'tobiiscool');
val.should.equal('hello.DGDUkGlIkCzPz+C0B064FNgHdEjox7ch8tOBGsI5QI');

var val = cookie.sign('hello', 'tobiiscool');
cookie.unsign(val, 'tobiiscool').should.equal('hello');
cookie.unsign(val, 'luna').should.be.false;
```

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1.7 lock-verify 2.1.0

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1.8 libuv 1.18.0 3

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1.17 Iodash-baseindexOf 3.1.0

1.17.1 Available under license:

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1.18 libyaml 0.1.7-5.el8

1.18.1 Available under license:

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1.19 https-proxy-agent 5.0.0

1.19.1 Available under license:

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https-proxy-agent

================

### An HTTP(s) proxy `http.Agent` implementation for HTTPS

[![Build Status](https://github.com/TooTallNate/node-https-proxy-agent/workflows/Node%20CI/badge.svg)](https://github.com/TooTallNate/node-https-proxy-agent/actions?workflow=Node+CI)
This module provides an `http.Agent` implementation that connects to a specified HTTP or HTTPS proxy server, and can be used with the built-in `https` module.

Specifically, this `Agent` implementation connects to an intermediary "proxy" server and issues the [CONNECT HTTP method][CONNECT], which tells the proxy to open a direct TCP connection to the destination server.

Since this agent implements the CONNECT HTTP method, it also works with other protocols that use this method when connecting over proxies (i.e. WebSockets). See the "Examples" section below for more.

Installation
-------------
Install with `npm`:

```bash
$ npm install https-proxy-agent
```

Examples
--------

##### `https` module example

```js
var url = require('url');
var https = require('https');
var HttpsProxyAgent = require('https-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);  

// HTTPS endpoint for the proxy to connect to
console.log('attempting to GET %j', endpoint);
var options = url.parse(endpoint);

// create an instance of the `HttpsProxyAgent` class with the proxy server information
var agent = new HttpsProxyAgent(proxy);

https.get(options, function (res) {
  console.log("response" event!", res.headers);
  res.pipe(process.stdout);
});
```
The `HttpsProxyAgent` class implements an `http.Agent` subclass that connects to the specified "HTTP(s) proxy server" in order to proxy HTTPS and/or WebSocket requests. This is achieved by using the [HTTP `CONNECT` method][CONNECT].

The `options` argument may either be a string URI of the proxy server to use, or an
"options" object with more specific properties:

- `host` - String - Proxy host to connect to (may use `hostname` as well). Required.
- `port` - Number - Proxy port to connect to. Required.
- `protocol` - String - If `https:`, then use TLS to connect to the proxy.
- `headers` - Object - Additional HTTP headers to be sent on the HTTP CONNECT method.
- Any other options given are passed to the `net.connect()`/`tls.connect()` functions.

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-------
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[CONNECT]: http://en.wikipedia.org/wiki/HTTP_tunnel#HTTPCONNECT_Tunneling

Found in path(s):
* /opt/cola/permits/1118486309_1608515036.79/0/https-proxy-agent-5-0-0-5-tgz/package/README.md

1.20 perl-file-path 2.15-2.el8

1.20.1 Available under license:

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NAME

File::Path - Create or remove directory trees

Open Source Used In Intersight Kubernetes Service 1.0.15 243
INSTALLATION
perl Makefile.PL
make
make test
make install

PREREQUISITES
All prerequisites are found in the Perl 5 core distribution.

To configure:
ExtUtils::MakeMaker

To build:
Cwd File::Basename
Exporter File::Spec

To test:
Carp File::Spec::Functions
Config SelectSaver
Cwd Test::More
Errno Win32 # Windows only
Fcntl

BUGS
The File-Path bug tracker is located at:

<http://rt.cpan.org/NoAuth/Bugs.html?Dist=File-Path>

File reports by sending email to:

bug-File-Path@rt.cpan.org

Include test programs or patches as email attachments.

AUTHORS
Prior authors and maintainers: Tim Bunce, Charles Bailey, and David Landgren (david at landgren dot net).

Current maintainers are Richard Elberger (riche at cpan dot org) and James E Keenan (jkeenan at cpan dot org).

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Found in path(s):
* /opt/cola/permits/1185063412_1627670310.89/0/perl-File-Path-2.15-2.el8-1.src.rpm-cosi-expand-archive-Ft8nGq0H/Move-Path-2.15.tar.gz-cosi-expand-archive-Mz7jpb8m/Move-Path-2.15/META.yml

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---

abstract: 'Create or remove directory trees'
author:
- unknown
build_requires:
  Carp: '0'
  Config: '0'
  Errno: '0'
  ExtUtils::MakeMaker: '0'
  Fcntl: '0'
  File::Spec::Functions: '0'
  SelectSaver: '0'
  Test::Simple: '0.44'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: File-Path
no_index:
directory:
  - t
  - inc
requires:
  Cwd: '0'
  Exporter: '0'
  File::Basename: '0'
  File::Spec: '0'
resources:
  repository: https://github.com/jkeenan/File-Path.git
  version: '2.15'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /opt/cola/permits/1185063412_1627670310.89/0/perl-File-Path-2.15-2.el8-1.src.rpm-cosi-expand-archive-Ft8nGq0H/Move-Path-2.15.tar.gz-cosi-expand-archive-Mz7jpb8m/Move-Path-2.15/META.yml

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NAME

File::Path - Create or remove directory trees

VERSION


SYNOPSIS

use File::Path qw(make_path remove_tree);

@created = make_path('foo/bar/baz', '/zug/zwang');
@created = make_path('foo/bar/baz', '/zug/zwang', { verbose => 1, mode => 0711, });
make_path('foo/bar/baz', '/zug/zwang', { chmod => 0777, });

$removed_count = remove_tree('foo/bar/baz', '/zug/zwang', { verbose => 1, error => \my $err_list, safe => 1, });

# legacy (interface promoted before v2.00)
@created = mkpath('/foo/bar/baz');
@created = mkpath('/foo/bar/baz', 1, 0711);
@created = mkpath(['/foo/bar/baz', 'blurfl/quux'], 1, 0711);
$removed_count = rmtree('foo/bar/baz', 1, 1);
$removed_count = rmtree(['foo/bar/baz', 'blurfl/quux'], 1, 1);

# legacy (interface promoted before v2.06)
@created = mkpath('foo/bar/baz', '/zug/zwang', { verbose => 1, mode => 0711 });
$removed_count = rmtree('foo/bar/baz', '/zug/zwang', { verbose => 1, mode => 0711 });

DESCRIPTION

This module provides a convenient way to create directories of arbitrary depth and to delete an entire directory subtree from the filesystem.

The following functions are provided:
The `make_path` function creates the given directories if they don't exist before, much like the Unix command `mkdir -p`.

The function accepts a list of directories to be created. Its behaviour may be tuned by an optional hashref appearing as the last parameter on the call.

The function returns the list of directories actually created during the call; in scalar context the number of directories created.

The following keys are recognised in the option hash:

- **mode** => $num

  The numeric permissions mode to apply to each created directory (defaults to 0777), to be modified by the current `<umask>`.
  If the directory already exists (and thus does not need to be created), the permissions will not be modified.

  `<mask>` is recognised as an alias for this parameter.

- **chmod** => $num

  Takes a numeric mode to apply to each created directory (not modified by the current `<umask>`).
  If the directory already exists (and thus does not need to be created), the permissions will not be modified.

- **verbose** => $bool

  If present, will cause `make_path` to print the name of each directory as it is created. By default nothing is printed.

- **error** => \$err

  If present, it should be a reference to a scalar.
  This scalar will be made to reference an array, which will be used to store any errors that are encountered. See the L</"ERROR HANDLING"> section for more information.

  If this parameter is not used, certain error conditions may raise a fatal error that will cause the program to halt, unless trapped
in an \texttt{eval} block.

\item \texttt{owner} => $owner

\item \texttt{user} => $owner

\item \texttt{uid} => $owner

If present, will cause any created directory to be owned by \texttt{C<$owner>}. If the value is numeric, it will be interpreted as a uid; otherwise a username is assumed. An error will be issued if the username cannot be mapped to a uid, the uid does not exist or the process lacks the privileges to change ownership.

Ownership of directories that already exist will not be changed.

\texttt{C<user>} and \texttt{C<uid>} are aliases of \texttt{C<owner>}.  

\item \texttt{group} => $group

If present, will cause any created directory to be owned by the group \texttt{C<$group>}. If the value is numeric, it will be interpreted as a gid; otherwise a group name is assumed. An error will be issued if the group name cannot be mapped to a gid, the gid does not exist or the process lacks the privileges to change group ownership.

Group ownership of directories that already exist will not be changed.

\begin{verbatim}
  make_path '/var/tmp/webcache', {owner=>'nobody', group=>'nogroup'};
\end{verbatim}

\item \texttt{mkpath( $dir )}

\item \texttt{mkpath( $dir, $verbose, $mode )}

\item \texttt{mkpath( [$dir1, $dir2,...], $verbose, $mode )}

\item \texttt{mkpath( $dir1, $dir2,..., $%opt )}

The \texttt{C<mkpath()>} function provide the legacy interface of \texttt{C<make_path()>} with a different interpretation of the arguments passed. The behaviour and return value of the function is otherwise identical to \texttt{C<make_path()>}.  

\item \texttt{remove_tree( $dir1, $dir2,... )}

\item \texttt{remove_tree( $dir1, $dir2,..., $%opts )}
The C<remove_tree()> function deletes the given directories and any files and subdirectories they might contain, much like the Unix command C<rm -rf> or the Windows commands C<rmdir /s> and C<rd /s>.

The function accepts a list of directories to be removed. (In point of fact, it will also accept filesystem entries which are not directories, such as regular files and symlinks. But, as its name suggests, its intent is to remove trees rather than individual files.)

C<remove_tree()>’s behaviour may be tuned by an optional hashref appearing as the last parameter on the call. If an empty string is passed to C<remove_tree>, an error will occur.

B<NOTE:> For security reasons, we strongly advise use of the hashref-as-final-argument syntax -- specifically, with a setting of the C<safe> element to a true value.

```
remove_tree( $dir1, $dir2, .....,
             {   
                 safe => 1,
                 ...         # other key-value pairs
             },
            );
```

The function returns the number of files successfully deleted.

The following keys are recognised in the option hash:

=over

=item verbose => $bool

If present, will cause C<remove_tree> to print the name of each file as it is unlinked. By default nothing is printed.

=item safe => $bool

When set to a true value, will cause C<remove_tree> to skip the files for which the process lacks the required privileges needed to delete files, such as delete privileges on VMS. In other words, the code will make no attempt to alter file permissions. Thus, if the process is interrupted, no filesystem object will be left in a more permissive mode.

=item keep_root => $bool

When set to a true value, will cause all files and subdirectories
to be removed, except the initially specified directories. This comes in handy when cleaning out an application's scratch directory.

```perl
remove_tree('/tmp', {keep_root => 1});
```

=item result => \$res

If present, it should be a reference to a scalar. This scalar will be made to reference an array, which will be used to store all files and directories unlinked during the call. If nothing is unlinked, the array will be empty.

```perl
remove_tree('/tmp', {result => \my \$list});
print "unlinked \$_\n" for @$list;
```

This is a useful alternative to the C<verbose> key.

=item error => \$err

If present, it should be a reference to a scalar. This scalar will be made to reference an array, which will be used to store any errors that are encountered. See the L</"ERROR HANDLING"> section for more information.

Removing things is a much more dangerous proposition than creating things. As such, there are certain conditions that C<remove_tree> may encounter that are so dangerous that the only sane action left is to kill the program.

Use C<error> to trap all that is reasonable (problems with permissions and the like), and let it die if things get out of hand. This is the safest course of action.

=back

=item rmtree( $dir )

=item rmtree( $dir, $verbose, $safe )

=item rmtree( [$dir1, $dir2,...], $verbose, $safe )

=item rmtree( $dir1, $dir2,..., \%opt )

The C<rmtree()> function provide the legacy interface of C<remove_tree()> with a different interpretation of the arguments passed. The behaviour and return value of the function is otherwise identical to C<remove_tree>.
For security reasons, we strongly advise use of the hashref-as-final-argument syntax, specifically with a setting of the C<safe> element to a true value.

```perl
rmmtree( $dir1, $dir2, ....,
    {
        safe => 1,
        ... # other key-value pairs
    },
);
```

ERROR HANDLING

The following error handling mechanism is consistent throughout all code paths EXCEPT in cases where the ROOT node is nonexistent. In version 2.11 the maintainers attempted to rectify this inconsistency but too many downstream modules encountered problems. In such case, if you require root node evaluation or error checking prior to calling C<make_path> or C<remove_tree>, you should take additional precautions.

If C<make_path> or C<remove_tree> encounters an error, a diagnostic message will be printed to C<STDERR> via C<carp> (for non-fatal errors) or via C<croak> (for fatal errors).

If this behaviour is not desirable, the C<error> attribute may be used to hold a reference to a variable, which will be used to store the diagnostics. The variable is made a reference to an array of hash references. Each hash contain a single key/value pair where the key is the name of the file, and the value is the error message (including the contents of C<$!> when appropriate). If a general error is encountered the diagnostic key will be empty.

An example usage looks like:

```perl
remove_tree( 'foo/bar', 'bar/rat', {error => \my $err} );
if ($err && @$err) {
    for my $diag (@$err) {
        my ($file, $message) = %$diag;
        if ($file eq '') {
            print "general error: $message\n";
        }
    }
}
```
Note that if no errors are encountered, C<$err> will reference an empty array. This means that C<$err> will always end up TRUE; so you need to test C<@$err> to determine if errors occurred.

=head2 NOTES

C<File::Path> blindly exports C<mkpath> and C<rmtree> into the current namespace. These days, this is considered bad style, but to change it now would break too much code. Nonetheless, you are invited to specify what it is you are expecting to use:

use File::Path 'rmtree';

The routines C<make_path> and C<remove_tree> are B<not> exported by default. You must specify which ones you want to use.

use File::Path 'remove_tree';

Note that a side-effect of the above is that C<mkpath> and C<rmtree> are no longer exported at all. This is due to the way the C<Exporter> module works. If you are migrating a codebase to use the new interface, you will have to list everything explicitly. But that's just good practice anyway.

use File::Path qw(remove_tree rmtree);

=head3 API CHANGES

The API was changed in the 2.0 branch. For a time, C<mkpath> and C<rmtree> tried, unsuccessfully, to deal with the two different calling mechanisms. This approach was considered a failure.

The new semantics are now only available with C<make_path> and C<remove_tree>. The old semantics are only available through C<mkpath> and C<rmtree>. Users are strongly encouraged to upgrade to at least 2.08 in order to avoid surprises.

=head3 SECURITY CONSIDERATIONS
There were race conditions in the 1.x implementations of File::Path's `rmtree` function (although sometimes patched depending on the OS distribution or platform). The 2.0 version contains code to avoid the problem mentioned in CVE-2002-0435.

See the following pages for more information:

http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=286905
http://www.nntp.perl.org/group/perl.perl5.porters/2005/01/msg97623.html

Additionally, unless the `safe` parameter is set (or the third parameter in the traditional interface is TRUE), should a `remove_tree` be interrupted, files that were originally in read-only mode may now have their permissions set to a read-write (or "delete OK") mode.

The following CVE reports were previously filed against File-Path and are believed to have been addressed:

=over 4
=item * L<http://cve.circl.lu/cve/CVE-2004-0452>
=item * L<http://cve.circl.lu/cve/CVE-2005-0448>
=back

In February 2017 the cPanel Security Team reported an additional vulnerability in File-Path. The `chmod()` logic to make directories traversable can be abused to set the mode on an attacker-chosen file to an attacker-chosen value. This is due to the time-of-check-to-time-of-use (TOCTTOU) race condition (L<https://en.wikipedia.org/wiki/Time_of_check_to_time_of_use>) between the `stat()` that decides the inode is a directory and the `chmod()` that tries to make it user-rwx. CPAN versions 2.13 and later incorporate a patch provided by John Lightsey to address this problem. This vulnerability has been reported as CVE-2017-6512.

=head1 DIAGNOSTICS

FATAL errors will cause the program to halt (C<croak>), since the problem is so severe that it would be dangerous to continue. (This can always be trapped with C<eval>, but it's not a good idea. Under the circumstances, dying is the best thing to do).

SEVERE errors may be trapped using the modern interface. If the they are not trapped, or if the old interface is used, such an error
will cause the program will halt.

All other errors may be trapped using the modern interface, otherwise
they will be C\{carp\}ed about. Program execution will not be halted.

=item mkdir [path]: [errmsg] (SEVERE)

C<make_path> was unable to create the path. Probably some sort of
permissions error at the point of departure or insufficient resources
(such as free inodes on Unix).

=item No root path(s) specified

C<make_path> was not given any paths to create. This message is only
emitted if the routine is called with the traditional interface.
The modern interface will remain silent if given nothing to do.

=item No such file or directory

On Windows, if C<make_path> gives you this warning, it may mean that
you have exceeded your filesystem's maximum path length.

=item cannot fetch initial working directory: [errmsg]

C<remove_tree> attempted to determine the initial directory by calling
C<Cwd::getcwd>, but the call failed for some reason. No attempt
will be made to delete anything.

=item cannot stat initial working directory: [errmsg]

C<remove_tree> attempted to stat the initial directory (after having
successfully obtained its name via C<getcwd>), however, the call
failed for some reason. No attempt will be made to delete anything.

=item cannot chdir to [dir]: [errmsg]

C<remove_tree> attempted to set the working directory in order to
begin deleting the objects therein, but was unsuccessful. This is
usually a permissions issue. The routine will continue to delete
other things, but this directory will be left intact.

=item directory [dir] changed before chdir, expected dev=[n] ino=[n], actual dev=[n] ino=[n], aborting. (FATAL)

C<remove_tree> recorded the device and inode of a directory, and then
moved into it. It then performed a C<stat> on the current directory
and detected that the device and inode were no longer the same. As
this is at the heart of the race condition problem, the program
will die at this point.

=item cannot make directory [dir] read+writeable: [errmsg]

C<remove_tree> attempted to change the permissions on the current directory
to ensure that subsequent unlinkings would not run into problems,
but was unable to do so. The permissions remain as they were, and
the program will carry on, doing the best it can.

=item cannot read [dir]: [errmsg]

C<remove_tree> tried to read the contents of the directory in order
to acquire the names of the directory entries to be unlinked, but
was unsuccessful. This is usually a permissions issue. The
program will continue, but the files in this directory will remain
after the call.

=item cannot reset chmod [dir]: [errmsg]

C<remove_tree>, after having deleted everything in a directory, attempted
to restore its permissions to the original state but failed. The
directory may wind up being left behind.

=item cannot remove [dir] when cwd is [dir]

The current working directory of the program is F</some/path/to/here>
and you are attempting to remove an ancestor, such as F</some/path>.
The directory tree is left untouched.

The solution is to C<chdir> out of the child directory to a place
outside the directory tree to be removed.

=item cannot chdir to [parent-dir] from [child-dir]: [errmsg], aborting. (FATAL)

C<remove_tree>, after having deleted everything and restored the permissions
of a directory, was unable to chdir back to the parent. The program
halts to avoid a race condition from occurring.

=item cannot stat prior working directory [dir]: [errmsg], aborting. (FATAL)

C<remove_tree> was unable to stat the parent directory after having returned
from the child. Since there is no way of knowing if we returned to
where we think we should be (by comparing device and inode) the only
way out is to C<croak>.

=item previous directory [parent-dir] changed before entering [child-dir], expected dev=[n] ino=[n], actual dev=[n]
ino=[n], aborting. (FATAL)
When C<remove_tree> returned from deleting files in a child directory, a check revealed that the parent directory it returned to wasn't the one it started out from. This is considered a sign of malicious activity.

=item cannot make directory [dir] writeable: [errmsg]

Just before removing a directory (after having successfully removed everything it contained), C<remove_tree> attempted to set the permissions on the directory to ensure it could be removed and failed. Program execution continues, but the directory may possibly not be deleted.

=item cannot remove directory [dir]: [errmsg]

C<remove_tree> attempted to remove a directory, but failed. This may be because some objects that were unable to be removed remain in the directory, or it could be a permissions issue. The directory will be left behind.

=item cannot restore permissions of [dir] to [0nnn]: [errmsg]

After having failed to remove a directory, C<remove_tree> was unable to restore its permissions from a permissive state back to a possibly more restrictive setting. (Permissions given in octal).

=item cannot make file [file] writeable: [errmsg]

C<remove_tree> attempted to force the permissions of a file to ensure it could be deleted, but failed to do so. It will, however, still attempt to unlink the file.

=item cannot unlink file [file]: [errmsg]

C<remove_tree> failed to remove a file. Probably a permissions issue.

=item cannot restore permissions of [file] to [0nnn]: [errmsg]

After having failed to remove a file, C<remove_tree> was also unable to restore the permissions on the file to a possibly less permissive setting. (Permissions given in octal).

=item unable to map [owner] to a uid, ownership not changed

C<make_path> was instructed to give the ownership of created directories to the symbolic name [owner], but C<getpwnam> did not return the corresponding numeric uid. The directory will be created, but ownership will not be changed.

=item unable to map [group] to a gid, group ownership not changed
C<make_path> was instructed to give the group ownership of created directories to the symbolic name [group], but C<getgrnam> did not return the corresponding numeric gid. The directory will be created, but group ownership will not be changed.

=back

=head1 SEE ALSO

=over 4

=item *

L<File::Remove>

Allows files and directories to be moved to the Trashcan/Recycle Bin (where they may later be restored if necessary) if the operating system supports such functionality. This feature may one day be made available directly in C<File::Path>.

=item *

L<File::Find::Rule>

When removing directory trees, if you want to examine each file to decide whether to delete it (and possibly leaving large swaths alone), F<File::Find::Rule> offers a convenient and flexible approach to examining directory trees.

=back

=head1 BUGS AND LIMITATIONS

The following describes F<File::Path> limitations and how to report bugs.

=head2 MULTITHREADED APPLICATIONS

F<File::Path> C<rmtree> and C<remove_tree> will not work with multithreaded applications due to its use of C<chdir>. At this time, no warning or error is generated in this situation. You will certainly encounter unexpected results.

The implementation that surfaces this limitation will not be changed. See the F<File::Path::Tiny> module for functionality similar to F<File::Path> but which does not C<chdir>.

=head2 NFS Mount Points
F<File::Path> is not responsible for triggering the automounts, mirror mounts, and the contents of network mounted filesystems. If your NFS implementation requires an action to be performed on the filesystem in order for F<File::Path> to perform operations, it is strongly suggested you assure filesystem availability by reading the root of the mounted filesystem.

=head2 REPORTING BUGS

Please report all bugs on the RT queue, either via the web interface:

L<http://rt.cpan.org/NoAuth/Bugs.html?Dist=File-Path>

or by email:

    bug-File-Path@rt.cpan.org

In either case, please B<attach> patches to the bug report rather than including them inline in the web post or the body of the email.

You can also send pull requests to the Github repository:

L<https://github.com/rpcme/File-Path>

=head1 ACKNOWLEDGEMENTS

Paul Szabo identified the race condition originally, and Brendan O'Dea wrote an implementation for Debian that addressed the problem. That code was used as a basis for the current code. Their efforts are greatly appreciated.

Gisle Aas made a number of improvements to the documentation for 2.07 and his advice and assistance is also greatly appreciated.

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=cut

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* /opt/cola/permits/1185063412_1627670310.89/0/perl-File-Path-2.15-2.el8-1.src.rpm-cosi-expand-archive-Ft8nGq0H/File-Path-2.15.tar.gz-cosi-expand-archive-Mz7jpb8m/File-Path-2.15/lib/File/Path.pm
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* /opt/cola/permits/1185063412_1627670310.89/0/perl-File-Path-2.15-2.el8-1.src.rpm-cosi-expand-archive-Ft8nGq0H/perl-File-Path.spec
1.21 rootfiles 8.1-22.el8

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1.22 lodash-baseuniq 4.6.0

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---
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The implementation of the AES cipher (also known as rijndael) is written by Rafael Sevilla. Assembler for x86 by Rafael Sevilla and Niels Müller, Sparc assembler by Niels Müller. Released under the LGPL.

ARCFOUR
The implementation of the ARCFOUR (also known as RC4) cipher is written by Niels Müller. Released under the LGPL.

ARCTWO
The implementation of the ARCTWO (also known as RC2) cipher is written by Nikos Mavroyanopoulos and modified by Werner Koch and Simon Josefsson. Released under the LGPL.

BLOWFISH
The implementation of the BLOWFISH cipher is written by Werner Koch, copyright owned by the Free Software Foundation. Also hacked by Simon Josefsson and Niels Müller. Released under the LGPL.

CAMELLIA
The C implementation is by Nippon Telegraph and Telephone Corporation (NTT), heavily modified by Niels Müller. Assembler for x86 and x86_64 by Niels Müller. Released under the LGPL.

CAST128
The implementation of the CAST128 cipher is written by Steve Reid. Released into the public domain.

DES
The implementation of the DES cipher is written by Dana L. How, and released under the LGPL.

MD2
The implementation of MD2 is written by Andrew Kuchling, and hacked some by Andreas Sigfridsson and Niels Müller. Python Cryptography Toolkit license (essentially public domain).

MD4
This is almost the same code as for MD5 below, with modifications by Marcus Comstedt. Released into the public domain.

MD5
The implementation of the MD5 message digest is written by Colin Plumb. It has been hacked some more by Andrew Kuchling and Niels Müller. Released into the public domain.

SERPENT
The implementation of the SERPENT is based on the code in libgcrypt, copyright owned by the Free Software Foundation. Adapted to Nettle by Simon Josefsson and heavily modified by Niels Mller. Assembly for x86_64 by Niels Mller. Released under the LGPL.

SHA1
The C implementation of the SHA1 message digest is written by Peter Gutmann, and hacked some more by Andrew Kuchling and Niels Mller. Released into the public domain. Assembler for x86 by Niels Mller, released under the LGPL.

SHA224, SHA256, SHA384, and SHA512
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1.26 xz 5.2.4-3.el8

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1.28 libnpth0 1.6 1

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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
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lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.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
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1.31 mysql-community-client 5.7.36-1debian10

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Also see the ChangeLog for even more people who have helped over the years by submitting fixes, patches and reporting bugs.

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MySQL 5.7.28 (and later)

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jemalloc

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MeCab

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SHA-1 in C
SHA-1 in C
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#
# Diagnostic weight ranges
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# Secondary weight range: 0020..0192 (371)
# Variant secondaries:    0159..015E (6)
# Digit secondaries:      015F..0192 (52)
# Tertiary weight range:  0002..001F (30)
#
@version 5.2.0

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1.32 json iterator go 1.1.10

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1.33 go-hclog 0.12.2

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1.34 gopkg-in-yaml-v2 2.2.8

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### 1.37 bsdutils 1:2.29.2-1+deb9u1

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfe2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>
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<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>

  <xsl:variable name="isc.copyright.text">
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  </xsl:variable>

  <xsl:variable name="isc.copyright">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$isc.copyright.text"/>
    </xsl:call-template>
  </xsl:variable>
</xsl:stylesheet>
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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <https://www.gnu.org/licenses/>.

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

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year>  <name of author>
This program 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.
The hypothetical commands `show w` and `show c` should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <https://www.gnu.org/licenses/>.

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NOTES ON COPYRIGHTS AND LICENSES

Some terminology:

A "copyright notice" consists of one or a few lines of this format:
"Copyright (C) 2006, 2007 Free Software Foundation, Inc."

A "license notice" is a statement of permissions, and is usually much longer, eg the text "GNU Emacs is free software...".

Summary for the impatient:

1. Don't add code to Emacs written by someone other than yourself without thinking about the legal aspect. Even if the changes are trivial, consider if they combine with previous changes by the same author to make a non-trivial total. If so, make sure they have an assignment. If adding a whole file adjust the copyright statements in the file.

2. When installing code written by someone else, the commit should be in the name of the author of the code, not the person who installs it. Also use commit's "--author" option. Do not install any of your own changes in the same commit.

3. With images, add the legal info to a README file in the directory containing the image.

4. If you add a lot of text to a previously trivial file that had no
legal notices, consider if you should add a copyright statement.

5. Please don't just add an FSF copyright without checking that is the right thing to do.

Every non-trivial file distributed through the Emacs repository should be self-explanatory in terms of copyright and license. This includes files that are not distributed in Emacs releases (for example, the admin/ directory), because the whole Emacs repository is publicly available.

The definition of triviality is a little vague, but a rule of thumb is that any file with less than 15 lines of actual content is trivial. If a file is auto-generated (eg ldefs-boot.el) from another one in the repository, then it does not really matter about adding a copyright statement to the generated file.

Legal advice says that we could, if we wished, put a license notice even in trivial files, because copyright law in general looks at the overall work as a whole. It is not necessary to do so, and rms prefers that we do not. This means one needs to take care that trivial files do not grow and become non-trivial without having a license added. NB consequently, if you add a lot of text to a small file, consider whether your changes have made the file worthy of a copyright notice, and if so, please add one.

It can be helpful to put a reminder comment at the start of a trivial file, eg: "add a license notice if this grows to > 10 lines of code".

The years in the copyright notice should be updated every year (see file "years" in this directory). The PDF versions of refcards etc should display copyright notices (an exception to the rule about "generated" files), but these can just display the latest year. The full list of years should be kept in comments in the source file. If these are distributed in the repository, check in a regenerated version when the tex files are updated.

Copyright changes should be propagated to any associated repositories (eg Gnus, MH-E), but I think in every case this happens automatically (?).

All README (and other such text files) that are non-trivial should contain copyright statements and GPL license notices, exactly as .el files do (see e.g. README in the top-level directory). Before 2007, we used a simple, short statement permitting copying and modification provided legal notices were retained. In Feb 2007 we switched to the standard GPL text, on legal advice. Some older text files in etc/
should, however, keep their current licenses (see below for list).

For image files, the copyright and license details should be recorded in a README file in each directory with images. (Legal advice says that we need not add notices to each image file individually, if they allow for that.). It is recommended to use the word "convert" to describe the automatic process of changing an image from one format to another (https://lists.gnu.org/r/emacs-devel/2007-02/msg00618.html).

When installing a file with an "unusual" license (after checking first it is ok), put a copy of the copyright and license in the file (if possible. It's ok if this makes the file incompatible with its original format, if it can still be used by Emacs), or in a README file in the relevant directory.

The vast majority of files are copyright FSF and distributed under the GPL. A few files (mainly related to language and charset support) are copyright AIST alone, or both AIST and FSF. (Contact Kenichi Handa with questions about legal issues in such files.) In all these cases, the copyright years in each file should be updated each year.

There are some exceptions to the points in the previous paragraph, and these are listed below for reference, together with any files where the copyright needs to be updated in "unusual" ways.

If you find any other such cases, please consult to check they are ok, and note them in this file. This includes missing copyright notices, and "odd" copyright holders. In most cases, individual authors should not appear in copyright statements. Either the copyright has been assigned (check copyright.list) to the FSF (in which case the original author should be removed and the year(s) transferred to the FSF); or else it is possible the file should not be in Emacs at all (please report!).

Note that it seems painfully clear that one cannot rely on commit logs, or even change log entries, for older changes. People often installed changes from others, without recording the true authorship.

[For reference, most of these points were established via email with rms, 2007/1, "Copyright years".

In March 2011, information on some files no longer included was removed. Consult older versions of this document if interested.]

lisp/version.el          # emacs-copyright
lib-src/ebrowse.c        # version
lib-src/etags.c       # print_version
lib-src/rcs2log       # Copyright
Cocoa/Emacs.base/Contents/Info.plist
Cocoa/Emacs.base/Contents/Resources/English.lproj/Info.plist.strings
GNUstep/Emacs.base/Resources/Info-gnustep.plist
'set-copyright' in admin.el will do all the above.

aclocal.m4
configure
m4/*.m4
- These files are copyright FSF, with unlimited permission to copy,
distribute and modify, so long as the copyright notice is preserved.
Exception: m4/pkg.m4 is copyright Scott James Remnant; it is
distributed under the same terms as for the rest of Emacs.

lib/Makefile.in
- copyright FSF, with MIT-like license

build-aux/install-sh
- this file is copyright MIT, which is OK. Leave the copyright alone.

df1cards/*.tex
also update the \def\year macro for the latest year.

df1cards/future-bug
- doesn't need a humorless disclaimer, because Karl Fogel says we
can consider it part of Emacs, and he has a blanker disclaimer for
Emacs changes. (email to rgm "[Emacs-commit] emacs/etc future-bug",
2007028)

df1cards/letter.pbm, letter.xpm
- trivial, no notice needed.

df1cards/FTP, ORDERS
- trivial (at time of writing), no license needed

df1cards/HELLO
standard notices. Just a note that although the file itself is not
really copyrightable, in the wider context of it being part of
Emacs (and written by those with assignments), a standard notice is
time.

df1cards/MAILINGLISTS
rms: simple license is fine for this file

leim/CXTERM-DIC/4Corner.tit, ARRAY30.tit, CCDOSPY.tit, ECDICT.tit,
ETZY.tit, PY-b5.tit, Punct-b5.tit, Punct.tit, QJ-b5.tit, QJ.tit,
SW.tit, TONEPY.tit, ZOZY.tit
- leave the copyrights alone.

leim/MISC-DIC/CTLau-b5.html, CTLau.html, cangjie-table.b5, cangjie-table.cns,
pinyin.map, ziranma.cin
- leave the copyright alone.
Note that pinyin.map, ziranma.cin (and hence the generated
leim/quail/PY.el, ZIRANMA.el) are under GPLv1 or later.

leim/SKK-DIC/SKK-JISYO.L
ja-dic/ja-dic.el
(the latter is auto-generated from the former). Leave the copyright alone.

lib-src/etags.c
Copyright information is duplicated in etc/ETAGS.README. Update that
file too.

Until 2007 etags.c was described as being copyright FSF and Ken Arnold.
After some investigation in Feb 2007, then to the best of our
knowledge we believe that the original 1984 Emacs version was based
on the version in BSD4.2. See for example this 1985 post from Ken Arnold:
<http://groups.google.com/group/mod.sources/browse_thread/thread/ffe5c55845a640a9>
I have received enough requests for the current source to ctags
post to it. Here is the latest version (what will go out with
4.3, modulo any bugs fixed during the beta period). It is the
4.2 ctags with recognition of yacc and lex tags added.

See also a 1984 version of ctags (no copyright) posted to net.sources:
<http://groups.google.com/group/net.sources/msg/a21b6c21be12d98d>
Version of etags.c in emacs-16.56 duplicates comment typos.

Accordingly, in Feb 2007 we added a 1984 copyright for the
University of California and a revised BSD license. The terms of
this require that the full license details be available in binary
distributions - hence the file etc/ETAGS.README. The fact that the
--version output just says "Copyright <year> FSF" is apparently OK
from a legal point of view.

lisp/cedet/semantic/imenu.el
- See https://lists.gnu.org/r/emacs-devel/2010-03/msg00410.html
  in which Eric Ludlam established that the remaining contributions
  from authors other than himself were negligible.

lisp/play/tetris.el
- no special rules about the copyright. We note here that we believe
  (2007/1) there is no problem with our use of the name "tetris" or
  the concept.
rms: "My understanding is that game rules as such are not copyrightable."
rms: Legal advice is that we are ok and need not worry about this.

lisp/net/tramp.el
- there are also copyrights in the body of the file. Update these too.

lwlib/

rms (2007/02/17): "lwlib is not assigned to the FSF; we don't consider it part of Emacs. [...] Therefore non-FSF copyrights are ok in lwlib."

NB don't change the GPL version used for lwlib .c and .h files (see below).

FSF copyrights should only appear in files which have undergone non-trivial cumulative changes from the original versions in the Lucid Widget Library. NB this means that if you make non-trivial changes to a file with no FSF copyright, you should add one. Also, if changes are reverted to the extent that a file becomes basically the same as the original version, the FSF copyright should be removed.

In my (rgm) opinion, as of Feb 2007, all the non-trivial files differ significantly from the original versions, with the exception of lwlib-Xm.h. Most of the changes that were made to this file have subsequently been reverted. Therefore I removed the FSF copyright from this file (which is arguably too trivial to merit a notice anyway). I added FSF copyright to the following files which did not have them already: Makefile.in, lwlib-Xaw.c, lwlib-int.h (borderline), lwlib-utils.c (borderline), lwlib.c, lwlib.h.

Copyright years before the advent of public CVS in 2001 were those when I judged (from the CVS logs) that non-trivial amounts of change had taken place. I also adjusted the existing FSF years in xlwmenu.c, xlwmenu.h, and xlwmenuP.h on the same basis.

Note that until Feb 2007, the following files in lwlib were lacking notices: lwlib-int.h, lwlib.h, lwlib-Xaw.h, lwlib-Xlw.h, lwlib-utils.h

The following files did not list a Lucid copyright: xlwmenu.h, xlwmenuP.h.

To the best of our knowledge, all the code files in lwlib were originally part of the Lucid Widget Library, even if they did not say so explicitly. For example, they were all present in Lucid Emacs 19.1 in 1992. The exceptions are the two Xaw files, which did not appear till Lucid Emacs 19.9 in 1994. The file lwlib-Xaw.h is too trivial to merit a copyright notice, but would presumably have the same one as
lwlib-Xaw.c. We have been unable to find a true standalone version of LWL, if there was such a thing, to check definitively.

To clarify the situation, in Feb 2007 we added Lucid copyrights and GPL notices to those files lacking either that were non-trivial, namely: lwlib-int.h, lwlib.h, xlwmenu.h, xlwmenuP.h. This represents our best understanding of the legal status of these files. We also clarified the notices in Makefile.in, which was originally the Makefile auto-generated from Lucid's Imakefile.

As of Feb 2007, the following files are considered too trivial for notices: lwlib-Xaw.h, lwlib-Xlw.h, lwlib-utils.h.

The version of lwlib/ first installed in Emacs seems to be the same as that used in Lucid Emacs 19.8 (released 6-sep-93); except the two Xaw files, which did not appear till Athena support was added in Lucid Emacs 19.9. In Lucid Emacs 19.1, all files were under GPLv1 or later, but by Lucid Emacs 19.8, lwlib.c and xlwmenu.c had been switched to v2 or later. These are the versions that were first installed in Emacs. So in GNU Emacs, these two files have been under v2 or later since 1994.

It seems that it was the intention of Lucid to use v1 or later (excepting the two files mentioned previously); so this is the license we have used when adding notices to code that did not have notices originally. Although we have the legal right to switch to v2 or later, rms prefers that we do not do so.

doc/*/doclicense.texi
- leave the copyright alone in this imported file.

doc/*/texti - All manuals should be under GFDL (but see below), and should include a copy of it, so that they can be distributed separately. faq.texi has a different license, for some reason no-one can remember.

doc/misc/mh-e.texi is dual-licensed (GPL and GFDL) per agreement with FSF (reconfirmed by rms Aug 25 2008). Discussion with licensing@fsf.org starting on Thu, 07 Aug 2003 with subject: "[gnu.org #58812] Changing license of MH-E manual"

msdos/sed*.inp - These files are copyright FSF and distributed under an MIT-like license.
oldXMenu/

Keep the "copyright.h" method used by X11, rather than moving the licenses into the files. Note that the original X10.h did not use copyright.h, but had an explicit notice, which we retain.

If you make non-trivial changes to a file which does not have an FSF notice, add one and a GPL notice (as per Activate.c). If changes to a file are reverted such that it becomes essentially the same as the original X11 version, remove the FSF notice and GPL.

Only the files which differ significantly from the original X11 versions should have FSF copyright and GPL notices. At time of writing (Feb 2007), this is: Activate.c, Create.c, Internal.c. I (rgm) established this by diff'ing the current files against those in X11R1, and when I found significant differences looking in the ChangeLog for the years they originated (the CVS logs are truncated before 1999). I therefore removed the FSF notices (added in 200x) from the other files. There are some borderline cases IMO: AddSel.c, InsSel.c, XMakeAssoc.c, XMenu.h. For these I erred on the side of NOT adding FSF notices.

With regards to whether the files we have changed should have GPL added or not, rms says (2007-02-25, "oldXmenu issues"):  

It does not make much difference, because oldXmenu is obsolete except for use in Emacs (and it is not normally used in Emacs any more either).

So, to make things simple, please put our changes under the GPL.

insque.c had no copyright notice until 2005. The version of insque.c added to Emacs 1992-01-27 is essentially the same as insremque.c added to glic three days later by Roland McGrath, with an FSF copyright and GPL, but no ChangeLog entry:

<http://sources.redhat.com/cgi-bin/cvsweb.cgi/~checkout~/libc/misc/insremque.c?
rev=1.1&cvsroot=glibc>

To the best of his recollection, McGrath (who has a copyright assignment) was the author of this file (email from roland at frob.com to rms, 2007-02-23, "Where did insque.c come from?"). The FSF copyright and GPL in this file are therefore correct as far as we understand it.

Imakefile had no legal info in Feb 2007, but was obviously based on the X11 version (which also had no explicit legal info). As it was unused, I removed it. It would have the same MIT copyright as Makefile.in does now.
src/gmalloc.c
- contains numerous copyrights from the GNU C library. Leave them alone.

nt/inc/dirent.h
- see comments below. This file is OK to be released with Emacs 22, but we may want to revisit it afterwards.

** Some notes on resolved issues, for historical information only

terms
rms: "surely written either by me or by ESR. (If you can figure out which year, I can probably tell you which.) Either way, we have papers for it." It was present in Emacs-16.56 (15-jul-85). rms: "Then I conclude it was written by me."

lisp/term/README
- had no copyright notice till Feb 2007. ChangeLog.3 suggests it was written by Eric Raymond. When asked by rms on 14 Feb 2007 he said:

I don't remember writing it, but it reads like my prose and I believe I wrote the feature(s) it's describing. So I would have been the likeliest person to write it.

Odds are that I did, but I'm not certain.

Accordingly, FSF copyright was added.

src/unexhp9k800.c
- briefly removed due to legal uncertainly Jan-Mar 2007. The relevant assignment is under "hp9k800" in copyright.list. File was written by John V. Morris at HP, and disclaimed by the author and HP. So this file is public domain.

lisp/progmodes/python.el
Dave Love alerted us to a potential legal problem:

On consultation with a lawyer, we found there was no problem:

** Issues that are "fixed" for the release of Emacs 22, but we may wish to revisit later in more detail
File says it's in the public domain, but that might not make it so.

On legal advice from Matt Norwood, the following comment was added to these files in Feb/Mar 2007:

The code here is forced by the interface, and is not subject to copyright, constituting the only possible expression of the algorithm in this format.

With the addition of this notice, these files are OK for the upcoming Emacs-22 release. Post-release, we can revisit this issue and possibly add a list of all authors who have changed these files. (details in email from Matt Norwood to rms, 2007/02/03).

For now, I think the best policy is to assume that we do have assignments from the authors (I recall many of these header files as having been originally written by rms), and to attach an FSF copyright with GPL notice. We can amend this if and when we complete the code audit. Any additions to these files by non-assigned authors are arguably "de minimis" contributions to Emacs: small changes or suggestions to a work that are subsumed in the main authors' copyright in the entire work.

Here is my (rgm) take on the details of the above files:

? irix5-0.h
I would say started non-trivial (1993, jimb, heavily based on irix4-0.h). A few borderline non-tiny changes since.

usg5-4-2.h
started non-trivial, but was heavily based on usg5-4.h, which was and is copyright FSF. only tiny changes since installed.

aix3-2.h, hpux8.h, hpux9.h, netbsd.h
started trivial, grown in tiny changes.

netbsd.h:
Roland McGrath said to rms (2007/02/17): "I don't really remember anything about it. If I put it in without other comment, then probably
I wrote it myself."

Someone might want to tweak the copyright years (for dates before 2001) that I used in all these files.

Note: erring on the side of caution, I also added notices to some files I thought might be considered non-trivial (if one includes comment) in s/:
    aix4-1.h hpux10.h irix6-5.h
    sol2.h

(everything with > 30 non-blank lines, which at least is _some_ kind of system)

*** These are copyright issues that need not be fixed until after
    Emacs 22 is released (though if they can be fixed before, that is
    obviously good):

Is it OK to just remove a file for legal reasons, or is something more drastic (excision from the entire repository history) needed? A removed file is still available from the repository, if suitable options are applied. (This issue obviously does not affect a release).

rms: will ask lawyer

Make sure that all files with non-standard copyrights or licenses are noted in this file.

REMOVED etc/gnu.xpm, nt/icons/emacs21.ico, nt/icons/sink.ico
- Restore if find legal info. emacs21.ico is not due to Davenport.
Geoff Voelker checked but could not find a record of where it came from.

etc/images
Image files from GTK, Gnome are under GPLv2 (no "or later"?). RMS will contact image authors in regards to future switch to v3.

etc/TUTORIAL* (translations)
switch to GPL (see english TUTORIAL)
rms: "We can leave the TUTORIAL translations alone until their maintainers update them."
Can adapt short license text from end of GPL translations at:
https://www.gnu.org/licenses/translations.html
Only a few sentences around the license notice need changing from previous version.
Done: TUTORIAL.eo

*** These are copyright issues still to be addressed:

None known.

** NOTES ON RELICENSING TO GPL3

The EMACS_22_BASE branch was changed to GPLv3 (or later) 2007/07/25.

Some notes:

1. There are some files in the Emacs tree which are not part of Emacs (eg those included from Gnulib). These are all copyright FSF and (at time of writing) GPL >= 2. rms says may as well leave the licenses of these alone (may import them from Gnulib again). These are:

   Gnulib:
   build-aux/config.guess
   build-aux/config.sub
   build-aux/move-if-change
   doc/man/texinfo.tex
   lib/*.[ch]
   lib/gnulib.mk.in
   src/gmalloc.c
   src/termcap.c
   src/tparam.c

   Note _not_ included in the above are src/regex.{c,h} (rms: "That forked version is only in Emacs, so definitely relicense that."), and oldXMenu/insque.c (rms: "We wrote that specifically for Emacs, so definitely relicense that.").

2. The files that are copyright FSF and AIST, or AIST alone, should be and were updated, ditto the oldXMenu files with FSF copyright.

3. lwlib/

   Files originally in Lucid Widget Library were left alone (excludes ChangeLog, etc), ie remain under GPL v1 or later, or v2 or later.
   (rms: "We may as well leave this alone, since we are never going to change it much.")
4. There are some files where the FSF holds no copyright. These were left alone:

leim/MISC-DIC/CTLau-b5.html  >= v2
leim/MISC-DIC/CTLau.html     >= v2
   (above included in lisp/international/titdic-cnv.el)
leim/MISC-DIC/pinyin.map     >= v1
leim/MISC-DIC/ziranma.cin    >= v1
leim/SKK-DIC/SKK-JISYO.L     >= v2
leim/SKK-DIC/README          >= v2
leim/ja-dic/ja-dic.el        >= v2

5. At time of writing, some non-Emacs icons included from Gnome remain under GPLv2 (no "or later"). See:

   etc/images/gnus/README
   etc/images/mail/README
   etc/images/README
   nt/icons/README

This file is part of GNU Emacs.

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;; Copyright.el --- update the copyright notice in current buffer


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;; Keywords: maint, tools

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;; Commentary:

;; Allows updating the copyright year and above mentioned GPL version manually
;; or when saving a file.
;; Do (add-hook 'before-save-hook 'copyright-update), or use
;; M-x customize-variable RET before-save-hook RET.

;; Code:

(defun copyright-at-end-flag nil
  "Non-nil means to search backwards from the end of the buffer for copyright.
This is useful for ChangeLogs."
  :group 'copyright
  :type 'boolean
  :version "23.1")

(defun copyright-regexp
  "What your copyright notice looks like.
The second \( () construct must match the years."
  :group 'copyright
  :type 'regexp)
(defcustom copyright-names-regexp ""
"Regexp matching the names which correspond to the user. Only copyright lines where the name matches this regexp will be updated. This allows you to avoid adding years to a copyright notice belonging to someone else or to a group for which you do not work."
:group 'copyright
:type 'regexp)

;;; The worst that can happen is a malicious regexp that overflows in
;;; the regexp matcher, a minor nuisance. It's a pain to be always
;;; prompted if you want to put this in a dir-locals.el.
;;;###autoload(put 'copyright-names-regexp 'safe-local-variable 'stringp)

(defcustom copyright-years-regexp
"\(\s *\)\([1-9]\([0-9, ;/*%#\n\t]\|\s<\|\s>\)*[0-9]+\)
"Match additional copyright notice years. The second \( \) construct must match the years."
:group 'copyright
:type 'regexp)

;;; See "Copyright Notices" in maintain.info.
;;; TODO? 'end only for ranges at the end, other for all ranges.
;;; Minimum limit on the size of a range?
(defcustom copyright-year-ranges nil
"Non-nil if individual consecutive years should be replaced with a range. For example: 2005, 2006, 2007, 2008 might be replaced with 2005-2008. If you use ranges, you should add an explanatory note in a README file. The function 'copyright-fix-years' respects this variable."
:group 'copyright
:type 'boolean
:version "24.1")

;;;###autoload(put 'copyright-year-ranges 'safe-local-variable 'booleanp)

(defcustom copyright-query 'function
"If non-nil, ask user before changing copyright. When this is 'function', only ask when called non-interactively."
:group 'copyright
:type 'choice (const :tag "Do not ask")
(const :tag "Ask unless interactive" function)
(other :tag "Ask" t))

;;; when modifying this, also modify the comment generated by autoinsert.el
(defconst copyright-current-gpl-version "3"
"String representing the current version of the GPL or nil.")
(defvar copyright-update t
"The function `copyright-update' sets this to nil after updating a buffer.")

;; This is a defvar rather than a defconst, because the year can
;; change during the Emacs session.
(defvar copyright-current-year (format-time-string "%Y")
"String representing the current year.")

(defsubst copyright-limit () ; re-search-forward BOUND
  (and copyright-limit
   (if copyright-at-end-flag
    (- (point) copyright-limit)
    (+ (point) copyright-limit))))

(defun copyright-re-search (regexp &optional bound noerror count)
  "Re-search forward or backward depending on `copyright-at-end-flag'."
  (if copyright-at-end-flag
   (re-search-backward regexp bound noerror count)
   (re-search-forward regexp bound noerror count)))

(defun copyright-start-point ()
  "Return point-min or point-max, depending on `copyright-at-end-flag'."
  (if copyright-at-end-flag
   (point-max)
   (point-min))))

(defun copyright-offset-too-large-p ()
  "Return non-nil if point is too far from the edge of the buffer."
  (when copyright-limit
   (if copyright-at-end-flag
    (< (point) (- (point-max) copyright-limit))
    (> (point) (+ (point-min) copyright-limit)))))

(defun copyright-find-copyright ()
  "Return non-nil if a copyright header suitable for updating is found.
  The header must match `copyright-regexp' and `copyright-names-regexp', if set.
  This function sets the match-data that `copyright-update-year' uses."
  (widen)
  (goto-char (copyright-start-point))
;; In case the regexp is rejected. This is useful because
;; copyright-update is typically called from before-save-hook where
;; such an error is very inconvenient for the user.
(with-demoted-errors "Can't update copyright: %s"
  ;; (1) Need the extra \\ around copyright-regexp because we
  ;; goto (match-end 1) below. See note (2) below.
  (copyright-re-search (concat "\\\" copyright-regexp
  "\\\])( |\\[^\\]*\\n\)?.*\\n\)"
  copyright-names-regexp "\\")
(defun copyright-find-end ()
  "Possibly adjust the search performed by \`copyright-find-copyright'.
  If the years continue onto multiple lines that are marked as comments,
  skips to the end of all the years."
  (while (save-excursion
         (and (eq (following-char) ?),)
         (progn (forward-char 1) t)
         (progn (skip-chars-forward " \t") (eolp))
         (comment-start-skip)
         (save-match-data
          (forward-line 1)
          (and (looking-at comment-start-skip)
               (goto-char (match-end 0))))
         (looking-at-p copyright-years-regexp))
    (forward-line 1)
    (re-search-forward comment-start-skip)
    ;; (2) Need the extra \( \) so that the years are subexp 3, as
    ;; they are at note (1) above.
    (re-search-forward (format "\(%s\)" copyright-years-regexp))))

(defun copyright-update-year (replace noquery)
  ;; This uses the match-data from copyright-find-copyright/end.
  (goto-char (match-end 1))
  (copyright-find-end)
  (setq copyright-current-year (format-time-string "%Y"))
  (unless (string= (buffer-substring (- (match-end 3) 2) (match-end 3))
            (substring copyright-current-year -2))
    (if (or noquery
             (save-window-excursion
              (switch-to-buffer (current-buffer))
              ;; Fixes some point-moving oddness (bug#2209).
              (save-excursion
               (y-or-n-p (if replace
                            (concat "Replace copyright year(s) by "
                                    copyright-current-year "? ")
                            (concat "Add " copyright-current-year
                                    " to copyright? "))))))
      (if replace
        (replace-match copyright-current-year t t nil 3)
        (let ((size (save-excursion (skip-chars-backward "0-9"))))
          (if (and (eq (% (- (string-to-number copyright-current-year)
                            (string-to-number (buffer-substring
                                              (+ (point) size)
                                              (point)))) 100
                         (100)))

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1) (or (eq (char-after (+ (point) size -1)) ?-)
   (eq (char-after (+ (point) size -2)) ?-)))
;; This is a range so just replace the end part.
(delete-char size)
   ;; Insert a comma with the preferred number of spaces.
   (insert
   (save-excursion
   (if (re-search-backward "[0-9]\( *, *\)[0-9]"
   (line-beginning-position) t)
   (match-string 1)
   ", ")
     ;; If people use the '91 '92 '93 scheme, do that as well.
     (if (eq (char-after (+ (point) size -3)) ?')
     (insert ?'))
     ;; Finally insert the new year.
     (insert (substring copyright-current-year size))))
)
::;###autoload
(defun copyright-update (&optional arg interactivep)
 "Update copyright notice to indicate the current year.
With prefix ARG, replace the years in the notice rather than adding
the current year after them. If necessary, and
`copyright-current-gpl-version' is set, any copying permissions
following the copyright are updated as well.
If non-nil, INTERACTIVEP tells the function to behave as when it's called
interactively."
(interactive "$Pn"

(when (or copyright-update interactivep)
   (let ((noquery (or (not copyright-query)
      (and (eq copyright-query 'function) interactivep)))
   (save-excursion
   (save-restriction
   ;; If names-regexp doesn't match, we should not mess with
   ;; the years _or_ the GPL version.
   ;; TODO there may be multiple copyrights we should update.
   (when (copyright-find-copyright)
      (copyright-update-year arg noquery)
      (goto-char (copyright-start-point))
      (and copyright-current-gpl-version
       ;; Match the GPL version comment in .el files.
       (copyright-re-search
       "the Free Software Foundation\[.\n\] *, either version \"[0-9]"\]|\?: of the License\]|?, \[.\n\] *, any later version"
       (copyright-limit) t)
      ;; Don't update if the file is already using a more recent
      ;; version than the "current" one.
   ))))
   ;; This is sensitive to line-breaks. :(
   (copyright-re-search
   "\[0-9]+\|\|\?; of the License\]|, or\[.\n\] *, any later version"
(or noquery
  (save-match-data
    (goto-char (match-end 1))
    (save-window-excursion
      (switch-to-buffer (current-buffer))
      (y-or-n-p
        (format "Replace GPL version %s with version %s? "
          (match-string-no-properties 1)
          copyright-current-gpl-version)))))
  (replace-match copyright-current-gpl-version t t nil 1)))))
(set (make-local-variable 'copyright-update) nil))

;; If a write-file-hook returns non-nil, the file is presumed to be written.

;;; FIXME heuristic should be within 50 years of present (cf calendar).

;;;###autoload
(defun copyright-fix-years ()
"Convert 2 digit years to 4 digit years.
Uses heuristic: year >= 50 means 19xx, < 50 means 20xx.
If `copyright-year-ranges' (which see) is non-nil, also
independently replaces consecutive years with a range."
(interactive)

;; TODO there may be multiple copyrights we should fix.
(if (copyright-find-copyright)
  (let ((s (match-beginning 3))
        (p (make-marker))
        ;; Not line-beg-pos, so we don't mess up leading whitespace.
        (copystart (match-beginning 0))
        e last sep year prev-year first-year range-start range-end)
    ;; In case years are continued over multiple, commented lines.
    (goto-char (match-end 1))
    (copyright-find-end)
    (setq e (copy-marker (1+ (match-end 3))))
    (goto-char s)
    (while (re-search-forward "[0-9]+" e t)
      (set-marker p (point))
      (goto-char (match-beginning 0))
      (setq year (string-to-number (match-string 0)))
      (and (setq sep (char-before))
        (/= (char-syntax sep) ?\s)
        (/= sep ?-)
        (insert " ")
        (when (< year 100)
          (insert (if (>= year 50) "19" "20"))
          (setq year (+ year (if (>= year 50) 1900 2000))))))

(defun copyright-year-ranges ()
  "Interactively display copyright year ranges.

  The prompt is `copyright-year-range'.  Use RET to accept the
  default.  To reject, type the range and press RET twice."
(goto-char p)
(when copyright-year-ranges
 ;; If the previous thing was a range, don't try to tack more on.
 ;; TODO should merge into existing range if possible.
 (if (eq sep ?-)
   (setq prev-year nil
       year nil)
   (if (and prev-year (= year (1+ prev-year)))
     (setq range-end (point))
   (when (and first-year prev-year
     (> prev-year first-year))
     (goto-char range-end)
     (delete-region range-start range-end)
     (insert (format "-%d" prev-year))
     (goto-char p))
   (setq first-year year
       range-start (point)))
   (setq prev-year year
       last p))
   (when last
     (when (and copyright-year-ranges
       first-year prev-year
       (> prev-year first-year))
       (goto-char range-end)
       (delete-region range-start range-end)
       (insert (format "-%d" prev-year))
       (goto-char last))
     ;; Don't mess up whitespace after the years.
     (skip-chars-backward " \t")
     (save-restriction
       (narrow-to-region copystart (point))
       ;; This is clearly wrong, eg what about comment markers?
       ;; (let ((fill-prefix " "))
       ;;   ;; TODO do not break copyright owner over lines.
       ;;   (fill-region (point-min) (point-max))))
     (set-marker e nil)
     (set-marker p nil))
   ;; Simply reformatting the years is not copyrightable, so it does
   ;; not seem right to call this. Also it messes with ranges.
   ;; (copyright-update nil t))
   (message "No copyright message")))

;;;###autoload
(define-skeleton copyright
"Insert a copyright by $ORGANIZATION notice at cursor."
"Company: "
comment-start
"Copyright (C) " `(format-time-string "\%Y") " by "
(or (getenv "ORGANIZATION")
  str)
  (if (copyright-offset-too-large-p)
    (message "Copyright extends beyond `copyright-limit' and won't be updated automatically.")
  )
(comment-end 
)

;; TODO: recurse, exclude COPYING etc.
;;; ###autoload
(defun copyright-update-directory (directory match &optional fix)
  "Update copyright notice for all files in DIRECTORY matching MATCH. If FIX is non-nil, run `copyright-fix-years' instead."
(interactive "DDirectory: \nMFilenames matching (regexp): ")
(dolist (file (directory-files directory t match nil))
  (unless (file-directory-p file)
    (message "Updating file `%s'" file)
    ;; FIXME we should not use find-file+save+kill.
    (let ((enable-local-variables :safe)
          (enable-local-eval nil))
      (find-file file))
      (let ((inhibit-read-only t))
        (if fix
            (copyright-fix-years)
            (copyright-update)))
      (save-buffer)
      (kill-buffer (current-buffer)))))
(provide 'copyright)

;;; copyright.el ends here
;ELC
;;; Compiled
;;; in Emacs version 26.1
;;; with all optimizations.

;;; This file contains utf-8 non-ASCII characters,
;;; and so cannot be loaded into Emacs 22 or earlier.
(and (boundp 'emacs-version)
  (< (aref emacs-version (1- (length emacs-version))) ?A)
  (string-lessp emacs-version "23")
  (error """"%s' was compiled for Emacs 23 or later" #$))


<byte-code
"300\301\302\303\304\305\210\306\307\310\311\304\301\312\313\314\302\315\304\301\312\316\317\320&

Open Source Used In Intersight Kubernetes Service 1.0.15 664
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## custom-declare-group copyright nil
"Update the copyright notice in current buffer."

## type (choice (integer :tag "Limit") (const :tag "No limit")) copyright-at-end-flag
"Non-nil means to search backwards from the end of the buffer for copyright."

## version "23.1" copyright-regexp
"What your copyright notice looks like."

## copyright-years-regexp
"Match additional copyright notice years."

## copyright-year-ranges
"Non-nil if individual consecutive years should be replaced with a range."

## copyright-query 'function
"If non-nil, ask user before changing copyright."
forward format "\(%s\)" ] 4 (#$ . 4368))

(defalias 'copyright-update-year #[(replace noquery) "\(%s\)" ] 4 (#$ . 4368))

[copyright-current-year noquery #1=#:wconfig replace size 1 copyright-find-end format-time-string "%Y" 3 2 -2 nil current-window-configuration #nil "\(%s\)" [1# set-window-configuration] 2] switch-to-buffer y-or-n-p "Replace copyright year(s) by " ? " Add " to copyright? " replace-match t "0-9" string-to-number 100 + -1 45 delete-char re-search-backward "\(%s\)" [line-beginning-position match-string "," ] -3 39] 6])

#@369 Update copyright notice to indicate the current year. With prefix ARG, replace the years in the notice rather than adding the current year after them. If necessary, and 'copyright-current-gpl-version' is set, any copying permissions following the copyright are updated as well.

If non-nil, INTERACTIVEP tells the function to behave as when it's called interactively.

(defalias 'copyright-update #[(&optional arg interactivep) "\(%s\)" ] 4 (#$ . 5958) "*P

#@208 Convert 2 digit years to 4 digit years. Uses heuristic: year >= 50 means 19xx, < 50 means 20xx. If 'copyright-year-ranges' (which see) is non-nil, also independently replaces consecutive years with a range.

(defalias 'copyright-fix-years "\(%s\)" ] 4 (#$ . 7460) nil

(put 'copyright 'no-self-insert t)
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1.43 internal-slot 1.0.3

1.43.1 Available under license:

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1.44 protobufjs-codegen 2.0.4

1.44.1 Available under license:

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1.45 grub-common 2.02 2ubuntu8.23

1.45.1 Available under license:

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1.46 libfstrm 0.4.0 1
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1.47 apollo-reporting-protobuf 0.8.0

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
  These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

  Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

  Author: Julio Merino <jmmv84@gmail.com>

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1.59 golang-org-x-crypto 0.0.0-20210317152858-513c2a44f670

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1.60 minipass-fetch 1.4.1

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<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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Upstream-Contact: David Howells <dhowells@redhat.com>
Source: http://people.redhat.com/~dhowells/keyutils/

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End

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Version 2.1, February 1999

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1.83 github.com/golangprotobuf 1.5.1

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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
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lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
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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
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/prop.x
   lib/kdb/kdb_convert.c
   lib/kdb/kdb_log.c
   lib/kdb/kdb_log.h
   lib/krb5/error_tables/kdb5_err.et
   slave/kpropd_rpc.c
   slave/kproplg.c

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Local Variables:
ispell-local-pdict: "ispell-dict"
End:

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-----------

. The file `src/libs/snprintf/snprintf.c', written by Mark Martinec <mark.martinec@ijs.si>.

Please look into snprintf.c for the copyright message.

The complete snprintf package together with documentation is available from

http://www.ijs.si/software/snprintf/  .

. The `grn' preprocessor, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

The original package can be found at

src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp

The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c

Macro Packages
--------------
. The -mdoc macro set, using the BSD license.

    tmac/doc.tmac
    tmac/doc-old.tmac
    tmac/doc-common
    tmac/doc-ditroff
    tmac/doc-nroff
    tmac/doc-syms
    tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

    tmac/e.tmac
    tmac/groff_me.man
    doc/meintro.me
    doc/meintro_fr.me
    doc/meref.me

Hyphenation Patterns
---------------------

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of
the TeX system written by Donald E. Knuth; the master file can be found
at

    ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

It has been renamed for consistency, i.e., to make patterns available
under the filenames `hyphen.<language>', e.g. `hyphen.de' or
`hyphen.uk'.

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. The file `tmac/hyphen.fr' contains the same patterns as the file
`frhyph.tex' (for TeX), which can be found at

    http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex

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. The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which
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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyphn.tex' and `dehypht.tex' (for TeX), which can be found at

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. The file `tmac/hyphenex.det' is identical to the file `dehyphtex.tex', which can be found at


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. The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive


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system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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1.130 protobufjs-aspromise 1.1.2

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1.131 compress 1.13.4

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in
relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the 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 a program 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.

Our method of protecting your rights has two steps: (1) copyright
the library, and (2) offer you this license which gives you legal
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Also, for each distributor's protection, we want to make certain
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want its recipients to know that what they have is not the original
version, so that any problems introduced by others will not reflect on
the original authors' reputations.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. 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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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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strategy to use in any particular case, based on the explanations below.

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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.

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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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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.

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

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

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

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

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

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

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

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

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

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1.140 libcap-ng 0.7.7 3.1

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1.143 shim-signed 1.37~18.04.10+15.4

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1.144 find-npm-prefix 1.0.2

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1.145 copy-concurrently 1.0.5

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1.146 bzip2 1.0.6 8.1ubuntu0.2

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bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.147 libncurses 6.1 1ubuntu1.18.04
1.147.1 Available under license:

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-- vile: txtmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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-- vile: txtmode file-encoding=utf-8

1.148 libpammodulesbin 1.3.1 5

1.148.1 Available under license :

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.154 apollo-server-core 2.25.2

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1.161 golang-org-x-time 0.0.0-20191024005414-555d28b269f0

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1.162 liblsan 8.4.0 1ubuntu1~18.04

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charset = utf-8
end_of_line = lf
indent_style = tab
tab_width = 2
insert_final_newline = true
trim_trailing_whitespace = true

[*.md,yml]
indent_style = space

[*.md]
trim_trailing_whitespace = false
workflow "Test" {
on = "push"
resolves = ["npm"]
}

action "npm" {
  uses = "shinnn/actions-npm-alpine@1.0.0"
  args = "install-ci-test"
}
* text=auto
# spdx-license-ids

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[!][Github Actions](https://action-badge.now.sh/shinnn/spdx-license-ids)

A list of [SPDX license](https://spdx.org/licenses/) identifiers

## Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm):

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]
ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=> true
ids.includes('GPL-3.0'); //=> false
```
Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
```

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[indent_style = space]

1.166 gopkg-in-yaml-v2 2.3.0

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.175 Linux-headers-virtual 4.15.0.156.145

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]
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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one: be sure to read it in full, and don’t assume that anything in it is the same as in the ordinary license.

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

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

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

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

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

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

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

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

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

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@var{one line to give the library's name and an idea of what it does.}
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@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS
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@page
@heading Appendix: How to Apply These Terms to Your New Programs

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possible use to the public, the best way to achieve this is to make it
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@end verbatim
@end example
Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

@smallexample
Gnomovision version 69, Copyright (C) @var{year} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than @samp{show w} and @samp{show c}; they could even be mouse-clicks or menu items---whatever suits your program.

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@example
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@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,
- the gettext.sh shells script function library.

The following parts are under the GPL, see file COPYING in the toplevel directory:
- the _programs_ gettext, ngettext, envsubst,
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Version 2.1, February 1999

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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
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therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
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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
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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
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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.

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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.

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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
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1.218 github.com/container-storage-interface/spec 1.2.0

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

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b) You must cause the files modified to carry prominent notices
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d) If a facility in the modified Library refers to a function or a
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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.)

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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.

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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.

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permitted, and provided that you do these two things:

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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
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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.
The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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b) The work must carry prominent notices stating that it is
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d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this
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Corresponding Source from a network server at no charge.

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d) Convey the object code by offering access from a designated
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A separable portion of the object code, whose source code is excluded
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1.237 isc-dhcp-client 4.3.5 3ubuntu7.3

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1.241 libjson-c3 0.12.1 1.3ubuntu0.3

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL   string `json:"url,omitempty"`
}
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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goproperties - properties file decoder for Go

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.243 netcat-traditional 1.10 41.1

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1.244 file 1:5.35 4+deb10u2

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1.245 libnss 2:3.42.1-1+deb10u3

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prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

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which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
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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.

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

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

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medium customarily used for software interchange.

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

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

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

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

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.

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To apply these terms, attach the following notices to the library.
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effectively convey the exclusion of warranty; and each file should
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<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

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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 package was debianized by Jean Pierre LeJacq
<jplejacz@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,

Open Source Used In Intersight Kubernetes Service 1.0.15 2103
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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Copyright information:

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

-------------------------------------

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.
[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=

GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.

-- Nathan

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not
GPL-2 ... it was a modified artistic license ... i didn't notice the license=
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isn't the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20
------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
> =20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> > directly
> > and see if he wants to relicense his code as LGPL... but at this
> > point,
> > > it was enough to just get it consistent and documented as to what
> it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.
> >=20
> the original license (before moving to sourceforge -- aka, 2.7) was
> not
> GPL-2 ... it was a modified artistic license … i didn't notice the
> license
> change until it was mentioned in the latest notes.
> >=20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isn't the
> place of a
> library to dictate to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.
Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
bit of additional code, so whatever licensing y'all come up with is fine by me.

I am sympathetic. Guys, what do you reckon?

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In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now ?

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now ?
> >
> > yes. go for it. thanks++
Nathan Neulinger is the only one who can actually make said change ...

-mike

------------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
------------

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43) by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47]) by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
   for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142]) by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
   for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
   by rutherford.zen.co.uk with esmtp (Exim 4.50)
   id 1lOeX-0004Qt-6L
   for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k1ldac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
Any chance you could write me a self-contained email stating clearly that the license is being changed to GPL, so I could include that in the repository and clean up the repository/tarballs? I have all the original discussion, but something succinct and self contained would be ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

----------

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

----------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

-- Nathan

------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.
the original license (before moving to sourceforge -- aka, 2.7) was not GPL-2 ... it was a modified artistic license ... i didn't notice the license change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which imo is just wrong. it isn't the place of a library to dictate to application writes what license they should be using.

thus LGPL-2.1 enters to fill this void.

=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme you all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing you all come up with is fine by me.

-- Nathan

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li... [mailto:cracklib-devel-bounces@li...] On Behalf Of Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec directly
> > and see if he wants to relicense his code as LGPL... but at this point,
> > it was enough to just get it consistent and documented as to what it was
> > released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.
> the original license (before moving to sourceforge -- aka, 2.7) was not
> GPL-2 ... it was a modified artistic license ... i didn't notice the license
> change until it was mentioned in the latest notes.
> unlike the old license, GPL-2 prevents people from using cracklib unless their
> applications are also GPL-2 which imo is just wrong. it isn't the place of a
> library to dictate to application writes what license they should be using.
> thus LGPL-2.1 enters to fill this void.

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > > bit of
> > > > additional code, so whatever licensing y'all come up with is fine
I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL.

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?
>
> yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> 
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?
>
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change...
-mike

--------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
--------

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
    by scanin-ipv6s.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
    for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [127.23.3.142])
    by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
    for <nneul@neulinger.org>; Mon, 01 Oct 2007 09:59:50 -0700 (PDT)
    Received: from [82.68.43.14] (helo=[192.168.1.3])
    by rutherford.zen.co.uk with esmtp (Exim 4.50)
    id 11cOeX-0004Qt-6L
    for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
    <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>

Open Source Used In Intersight Kubernetes Service 1.0.15 2117
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)
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2017, Jrmy Bobbio
2017, Xinm Luo
2017- Bastien Roucaris <rouca@debian.org>
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1.248 githubcomrcrowleygometrics 0.0.0-20190826022208-cac0b30c2563

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1.249 k8s-io-client-go 0.21.0

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1.252 iproute 4.18.0-15.el8

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1.257 object-keys 1.0.12

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1.258 protobuf 1.27.1

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1.261 libkcrypto 1.16 2ubuntu0.2

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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
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lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
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- 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
- slave/kpropd_rpc.c
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cmd/krb5/prop/prop.x

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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
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
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lib/libgss/g_export_name.c
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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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"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
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/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/kerb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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1.268 sigs-k8s-io-yaml 1.2.0

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1.272 debug 4.3.2

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1.276 e2fsprogs 1.44.5 1+deb10u3

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+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
 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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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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(which use some of those functions and data) to form executables.

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

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

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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
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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
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compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
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However, linking a "work that uses the Library" with the Library
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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
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Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.
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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.

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

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

That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

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

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DAMAGE.

This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

From the original distribution:

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# 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) $(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-shlibs

install-shlibs-strip: install-shlibs

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

clean::
$(RM) -rf pic
$(RM) -f $(BSLIB_LIB)
$(RM) -f ../$(BSLIB_LIB)
This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Gadi Oxman, August 1995

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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary
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1.279 perl-modules 5.26.1 6ubuntu0.5

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1.284 libevent 2.1.8-5.el8

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@item
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@item
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfe2bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

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* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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package compute

import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "math"
    "net/http"
    "net/url"

gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/iterator"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
"google.golang.org/grpc"
"google.golang.org/grpc/metadata"
"google.golang.org/protobuf/encoding/protojson"
"google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
    Delete     []gax.CallOption
    Get        []gax.CallOption
    GetIamPolicy []gax.CallOption
    Insert     []gax.CallOption
    List       []gax.CallOption
    SetIamPolicy []gax.CallOption
    TestIamPermissions []gax.CallOption
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
// The Licenses API.
// The internal transport-dependent client.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
// Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
// party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...
gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...
gax.CallOption) (*computepb.TestIamPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicensesRESTClient creates a new licenses rest client.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    return NewLicensesClient(ctx, clientOpts)
}
httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)  
if err != nil {  
    return nil, err  
}  

c := &licensesRESTClient{  
   endpoint:   endpoint,  
   httpClient: httpClient,  
}
c.setGoogleClientInfo()  

return &LicensesClient{internalClient: c, CallOptions: &LicensesCallOptions{}}, nil

}

func defaultLicensesRESTClientOptions() []option.ClientOption {  
    return []option.ClientOption{  
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),  
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),  
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),  
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),  
    }  
}

// setGoogleClientInfo sets the name and version of the application in  
// the ‘x-goog-api-client’ header passed on each request. Intended for  
// use by Google-written clients.  
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {  
   kv := append([]string{"gl-go", versionGo()}, keyval...)  
   kv = append(kv, "gapi", versionClient, "gax", gax.Version, "rest", "UNKNOWN")  
   c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeaderValue(kv...))  
}

// Close closes the connection to the API service. The user should invoke this when  
// the client is no longer required.  
func (c *licensesRESTClient) Close() error {  
   return nil  
}

// Connection returns a connection to the API service.  
//  
// Deprecated.  
func (c *licensesRESTClient) Connection() *grpc.ClientConn {  
   return nil  
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.

```go
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...
gax.CallOption) (*Operation, error) {
    baseUrl, _ := url.Parse(c.endpoint)

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }
    baseUrl.RawQuery = params.Encode()

    if err != nil {
        return nil, err
    }
    httpReq = httpReqWithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    if httpRsp.StatusCode != http.StatusOK {
        return nil, fmt.Errorf(httpRsp.Status)
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return nil, err
    }

    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    rsp := &computepb.Operation{}
    if err := unm.Unmarshal(buf, rsp); err != nil {
        return nil, err
    }
    op := &Operation{proto: rsp}
    return op, err
```
// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    baseUrl, _ := url.Parse(c.endpoint)

    if err != nil {
        return nil, err
    }
    httpReq = httpReqWithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    if httpRsp.StatusCode != http.StatusOK {
        return nil, fmt.Errorf(httpRsp.Status)
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return nil, err
    }

    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    rsp := &computepb.License{

    return rsp, unm.Unmarshal(buf, rsp)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, _ := url.Parse(c.endpoint)

    if err != nil {
        return nil, err
    }
    httpReq = httpReqWithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    if httpRsp.StatusCode != http.StatusOK {
        return nil, fmt.Errorf(httpRsp.Status)
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return nil, err
    }

    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    rsp := &computepb.Policy{

    return rsp, unm.Unmarshal(buf, rsp)
}

// GetIAMPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIAMPolicy(ctx context.Context, req *computepb.GetIAMPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, _ := url.Parse(c.endpoint)

    if err != nil {
        return nil, err
    }
    httpReq = httpReqWithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    if httpRsp.StatusCode != http.StatusOK {
        return nil, fmt.Errorf(httpRsp.Status)
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return nil, err
    }

    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    rsp := &computepb.Policy{

    return rsp, unm.Unmarshal(buf, rsp)
}
params := url.Values{}
if req != nil && req.OptionsRequestedPolicyVersion != nil {
}

baseUrl.RawQuery = params.Encode()

if err != nil {
    return nil, err
}
httpReq = httpReqWithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
def httpRsp.Body.Close()

if httpRsp.StatusCode != http.StatusOK {
    return nil, fmt.Errorf(httpRsp.Status)
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Policy{}

return rsp, unm.Unmarshal(buf, rsp)

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    if err != nil {
        return nil, err
    }
    httpReq = httpReqWithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}
    jsonBytes := jsonReq.Bytes()
    httpReq.Header["Content-Length"] = []string{strconv.Itoa(len(jsonBytes))}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    if httpRsp.StatusCode != http.StatusOK {
        return nil, fmt.Errorf(httpRsp.Status)
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return nil, err
    }

    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    rsp := &computepb.Policy{}
    return rsp, unm.Unmarshal(buf, rsp)
}
baseUrl, _ := url.Parse(c.endpoint)

params := url.Values{
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

baseUrl.RawQuery = params.Encode()

if err != nil {
    return nil, err
}

httpReq = httpReqWithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}

httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}

defer httpRsp.Body.Close()

if httpRsp.StatusCode != http.StatusOK {
    return nil, fmt.Errorf(httpRsp.Status)
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Operation{
    if err := unm.Unmarshal(buf, rsp); err != nil {
        return nil, err
    }
    op := &Operation{proto: rsp}
    return op, err
}
List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```go
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{}
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
        resp := &computepb.LicensesListResponse{}
        if pageToken != "" {
            req.PageToken = proto.String(pageToken)
        }
        if pageSize > math.MaxInt32 {
            req.MaxResults = proto.Uint32(math.MaxInt32)
        } else if pageSize != 0 {
            req.MaxResults = proto.Uint32(uint32(pageSize))
        }
        baseUrl, _ := url.Parse(c.endpoint)
        params := url.Values{}
        if req != nil && req.Filter != nil {
        }
        if req != nil && req.MaxResults != nil {
            params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
        }
        if req != nil && req.OrderBy != nil {
            params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
        }
        if req != nil && req.PageToken != nil {
        }
        if req != nil && req.ReturnPartialSuccess != nil {
        }
        baseUrl.RawQuery = params.Encode()

        if err != nil {
            return nil, "", err
        }

        // Set the headers
```
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}

httpReq.Header["Content-Type"] = []string{"application/json"}
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, "", err
}
defer httpRsp.Body.Close()

if httpRsp.StatusCode != http.StatusOK {
    return nil, "", fmt.Errorf(httpRsp.Status)
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, "", err
}

unm.Unmarshal(buf, resp)
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
    opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    return c.httpClient.Do(http.Rq{Body: jsonReq})
if err != nil {
    return nil, err
}

baseUrl, _ := url.Parse(c.endpoint)

if err != nil {
    return nil, err
}

httpReq = httpReqWithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}

def httpRsp.Body.Close()

if httpRsp.StatusCode != http.StatusOK {
    return nil, fmt.Errorf(httpRsp.Status)
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Policy{
}

return rsp, unm.Unmarshal(buf, rsp)

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)

if err != nil {
    return nil, err
}

baseUrl, _ := url.Parse(c.endpoint)

if err != nil {
    return nil, err
}
httpReq = httpReqWithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
def httpRsp.Body.Close()

if httpRsp.StatusCode != http.StatusOK {
    return nil, fmt.Errorf(httpRsp.Status)
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{
}

return rsp, unm.Unmarshal(buf, rsp)
}

LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
    items    []*computepb.License
    pageInfo *iterator.PageInfo
    nextFunc func() error

    // Response is the raw response for the current page.
    // It must be cast to the RPC response type.
}

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// Calling Next() or InternalFetch() updates this value.
Response interface{}

// InternalFetch is for use by the Google Cloud Libraries only.
// It is not part of the stable interface of this package.
//
// InternalFetch returns results from a single call to the underlying RPC.
// The number of results is no greater than pageSize.
// If there are no more results, nextPageToken is empty and err is nil.
InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
    return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
    var item *computepb.License
    if err := it.nextFunc(); err != nil {
        return item, err
    }
    item = it.items[0]
    it.items = it.items[1:]
    return item, nil
}

func (it *LicenseIterator) bufLen() int {
    return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
    b := it.items
    it.items = nil
    return b
}

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import ( 
    "context"
    compute "cloud.google.com/go/compute/apiv1"
    "google.golang.org/api/iterator"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1" 
)

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.DeleteLicenseRequest{
        // TODO: Fill request struct fields.
    }
    resp, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Get() {
}
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
    // TODO: Fill request struct fields.
}
resp, err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
    // TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
    // TODO: Fill request struct fields.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
    // TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert() {
    ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
    // TODO: Fill request struct fields.
}
resp, err := c.Insert(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp

func ExampleLicensesClient_List() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.
    }
    it := c.List(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

func ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}
// TODO: Use resp.
_ = resp

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import {
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "net/http"
    "net/url"
var newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
  Get    []gax.CallOption
  TestIamPermissions []gax.CallOption
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
  Close() error
  setGoogleClientInfo(...string)
  Connection() *grpc.ClientConn
  Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
  TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
  // The internal transport-dependent client.
  internalClient internalLicenseCodesClient

  // The call options for this service.
  CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
  return c.internalClient.Close()
}
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)  
httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)  
if err != nil {  
    return nil, err  
}

c := &licenseCodesRESTClient{
    endpoint:   endpoint,
    httpClient: httpClient,
}
c.setGoogleClientInfo()

return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{}, nil}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
    }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)  
kv = append(kv, "gapi", c.versionClient, "gax", c.gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
    return nil
}
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
    baseUrl, _ := url.Parse(c.endpoint)

    if err != nil {
        return nil, err
    }
    httpReq = httpReqWithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    if httpRsp.StatusCode != http.StatusOK {
        return nil, fmt.Errorf(httpRsp.Status)
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return nil, err
    }

    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    rsp := &computepb.LicenseCode{}

    return rsp, unm.Unmarshal(buf, rsp)
}

func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
jsonReq, err := m.Marshal(body)
if err != nil {
    return nil, err
}

baseUrl, _ := url.Parse(c.endpoint)
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
    req.GetProject(), req.GetResource())

if err != nil {
    return nil, err
}

httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
deferr httpRsp.Body.Close()

if httpRsp.StatusCode != http.StatusOK {
    return nil, fmt.Errorf(httpRsp.Status)
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{
}

return rsp, unm.Unmarshal(buf, rsp)

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package compute_test

import (    "context"
    compute "cloud.google.com/go/compute/apiv1"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
// TODO: Handle error.
}
defer c.Close()

// TODO: Use client.
_ = c
}

func ExampleLicenseCodesClient_Get() {
  ctx := context.Background()
  c, err := compute.NewLicenseCodesRESTClient(ctx)
  if err != nil {
    // TODO: Handle error.
  }
  defer c.Close()

  req := &computepb.GetLicenseCodeRequest{
    // TODO: Fill request struct fields.
  }
  resp, err := c.Get(ctx, req)
  if err != nil {
    // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
  ctx := context.Background()
  c, err := compute.NewLicenseCodesRESTClient(ctx)
  if err != nil {
    // TODO: Handle error.
  }
  defer c.Close()

  req := &computepb.TestIamPermissionsLicenseCodeRequest{
    // TODO: Fill request struct fields.
  }
  resp, err := c.TestIamPermissions(ctx, req)
  if err != nil {
    // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
}

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1.297 libprotobuf-c 1.3.1 1+b1

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https://github.com/Brightspace/node-ecdsa-sig-formatter

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// - code style
// - uses new ECMAScript syntax
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1.304 uuid 3.4.0
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1.307 pcre 8.42-4.el8

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If your license has expired most of Grafana keeps working as normal. Some enterprise functionality stops or runs with reduced functionality and Grafana displays a banner informing the users that Grafana is running on an expired license. Your Grafana admin needs to upload a new license file to restore full functionality.

> Replace your license as soon as possible. Running Grafana Enterprise with an expired license is unsupported and can lead to unexpected consequences.

## Update your license

1. Locate your current `license.jwt` file. In a standard installation it is stored inside Grafana's data directory, which on a typical Linux installation is in `/var/lib/grafana/data`. This location might be overridden in the ini file [Configuration](https://grafana.com/docs/grafana/latest/administration/configuration/).

```ini
[enterprise]
license_path = /path/to/your/license.jwt
```

   The configuration file's location may also be overridden by the `GF_ENTERPRISE_LICENSE_PATH` environment variable.

1. Log in to your [Grafana Cloud Account](https://grafana.com/login) and make sure you're in the correct organization in the dropdown at the top of the page.
1. Under the **Grafana Enterprise** section in the menu bar to the left, choose licenses and download the currently valid license with which you want to run Grafana. If you cannot see a valid license on Grafana.com, please contact your account manager at Grafana Labs to renew your subscription.
1. Replace the current `license.jwt`-file with the one you've just downloaded.
1. Restart Grafana.

## If your license expires

If your Grafana Enterprise license expires, the following functionality affected as follows.
### Data source permissions

Your current data source permissions will keep working as expected, but you'll be unable to add new data source permissions until the license has been renewed.

### LDAP authentication

- LDAP synchronization is not affected by an expired license.
- Enhanced LDAP debugging is unavailable.

### SAML authentication

SAML authentication is not affected by an expired license.

### Reporting

- You're unable to configure new reports or generate previews.
- Scheduled reports are not generated or sent.

### Enterprise plugins

Enterprise plugins might stop working.

### White labeling

The white labeling feature is turned off, meaning that any white labeling options will not have any effect.

### Usage insights

All the usage insights features are turned off, meaning that you won't be able to look at dashboard usage, presence indicator or to use improved search. Grafana still collects usage data and you will have access to it as soon as you update your license.

### Vault integration

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1.309 common 0.29.0

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1.324 golang-org-x-net 0.0.0-20191105084925-a882066a44e0

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1.325 policykit 0.105 20ubuntu0.18.04.5

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1.328 githubcomimdariomergo 0.3.9

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fields:
  site: string
  author: root
1.329 emoji-regex 7.0.3

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Local-Date: Fri, 06 Jun 2003 13:18:52 -0400
Date: Fri, 6 Jun 2003 10:18:52 -0700
From: Juan Gomez <juang@us.ibm.com>
To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

Stephen,

"There is no restriction on modifications and derived works" on the work I
did for the openldap server as long as this is consistent with the openldap
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changes to the files to reflect this.

Regards, Juan
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Date: Thu, 5 Jun 2003 16:53:32 -0400 (EDT)
From: Mark Adamson <adamson@andrew.cmu.edu>
To: Stephen Frost <sfrost@debian.org>
Subject: Re: Mark Adamson license in OpenLDAP source

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Regards, Kurt

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1.333 curl 7.61.1-14.el8_3.1

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1.335 github.com/bwplotka/minio-go/v7
7.0.11-0.20210324165441-f9927e5255a6

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*
package minio

import (
    "bytes"
    "context"
    "encoding/xml"
    "fmt"
    "net/http"
    "net/url"

    "github.com/minio/minio-go/v7/pkg/s3utils"
)

// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
type objectLegalHold struct {
    XMLNS string `xml:"xmlns,attr,omitempty"
    XMLName xml.Name `xml:"LegalHold"
    Status LegalHoldStatus `xml:"Status,omitempty"
}

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
    VersionID string
    Status *LegalHoldStatus
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
    VersionID string
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string
const (  
    // LegalHoldEnabled indicates legal hold is enabled  
    LegalHoldEnabled LegalHoldStatus = "ON"
)

// LegalHoldDisabled indicates legal hold is disabled  
LegalHoldDisabled LegalHoldStatus = "OFF"

func (r LegalHoldStatus) String() string {  
    return string(r)
}

// IsValid - check whether this legal hold status is valid or not.  
func (r LegalHoldStatus) IsValid() bool {  
    return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {  
    if status == nil {  
        return nil, fmt.Errorf("Status not set")
    }  
    if !status.IsValid() {  
        return nil, fmt.Errorf("invalid legal hold status \%v\", status)
    }  
    legalHold := &objectLegalHold{  
        Status: *status,
    }  
    return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.  
func (c Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts PutObjectLegalHoldOptions) error {  
    // Input validation.  
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {  
        return err
    }  
    if err := s3utils.CheckValidObjectName(objectName); err != nil {  
        return err
    }  
    // Get resources properly escaped and lined up before  
    // using them in http request.  
    urlValues := make(url.Values)  
    urlValues.Set("legal-hold", ")
if opts.VersionID != "" {
}

lh, err := newObjectLegalHold(opts.Status)
if err != nil {
    return err
}

lhData, err := xml.Marshal(lh)
if err != nil {
    return err
}

reqMetadata := requestMetadata{
    bucketName:       bucketName,
    objectName:       objectName,
    queryValues:      urlValues,
    contentBody:      bytes.NewReader(lhData),
    contentLength:    int64(len(lhData)),
    contentMD5Base64: sumMD5Base64(lhData),
    contentSHA256Hex: sum256Hex(lhData),
}

// Execute PUT Object Legal Hold.
defer closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil

// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return nil, err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return nil, err
    }

    // Execute GET Object Legal Hold.
    resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
        bucketName:       bucketName,
        objectName:       objectName,
        queryValues:      urlValues,
        contentLength:    int64(len(lhData)),
        contentMD5Base64: sumMD5Base64(lhData),
        contentSHA256Hex: sum256Hex(lhData),
    })
    defer closeResponse(resp)
    if err != nil {
        return nil, err
    }
    if resp != nil {
        if resp.StatusCode != http.StatusOK {
        }
    }
    // Parse the response.
    respContent, err := resp.Body()
    if err != nil {
        return nil, err
    }
    content, err := ioutil.ReadAll(respContent)
    if err != nil {
        return nil, err
    }

    // Parse the response content.
    status, err := parseLegalHoldStatus(content)
    if err != nil {
        return nil, err
    }

    return status, nil
}
urlValues := make(url.Values)
urlValues.Set("legal-hold", ")

if opts.VersionID != "" {
}

// Execute GET on bucket to list objects.
resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
    bucketName:       bucketName,
    objectName:       objectName,
    queryValues:      urlValues,
    contentSHA256Hex: emptySHA256Hex,
})
deffer closeResponse(resp)
if err != nil {
    return nil, err
}
if resp != nil {
    if resp.StatusCode != http.StatusOK {
        return nil, httpRespToErrorResponse(resp, bucketName, objectName)
    }
    lh := &objectLegalHold{}
    if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
        return nil, err
    }
}

return &lh.Status, nil

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1.336 xz-libs 5.2.4-3.el8

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1.339 systemd 241-7~deb10u4

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This is Debian's prepackaged version of patch, Larry Wall's program that
allows you to apply diffs to a file automagically.

The current maintainer for this package is Laszlo Boszormenyi (GCS)
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Previous maintainers were Bill Mitchell <mitchell@mdd.comm.mot.com>,
Darren Stalder <torin@daft.com>, Adrian Bunk <bunk@fs.tum.de>,
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The upstream source is available at 'ftp://ftp.gnu.org/gnu/patch/", resp.
'ftp://alpha.gnu.org/gnu/diffutils/".

Upstream Maintainer: Paul Eggert <eggert@twinsun.com>

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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
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
slave/kpropd_rpc.c
slave/kproplog.c
```

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===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
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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[This is the first released version of the library GPL. It is
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!
This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

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

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DAMAGE.
This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/
From the original distribution:

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# 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)"
This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Gadi Oxman, August 1995

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Date: Fri, 6 Jun 2003 10:18:52 -0700
From: Juan Gomez <juang@us.ibm.com>
To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

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MA
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To: Stephen Frost <sfrost@debian.org>
Subject: Re: Mark Adamson license in OpenLDAP source

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* To: Stephen Frost <sfrost@snowman.net>
* Subject: Re: OpenLDAP Licenseing issues
* From: "Kurt D. Zeilenga" <Kurt@OpenLDAP.org>
* Date: Wed, 28 May 2003 10:55:44 -0700
* Cc: Steve Langasek <vorlon@netexpress.net>,debian-legal@lists.debian.org, openldap-devel@OpenLDAP.org
* In-reply-to: <20030528162613.GB8524@ns.snowman.net>
* Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>
* Old-return-path: <Kurt@OpenLDAP.org>

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1.354 rsync 3.1.3 6

1.354.1 Available under license:
This is Debian's prepackaged version of Andrew Tridgell and
Paul Mackerras' rsync utility.

This package provides the rsync program, which is a replacement
for rcp that uses the rsync algorithm to transfer only the
differences between two sets of files.

This package was put together by Philip Hands <phil@hands.com>,
from sources obtained from:
http://rsync.samba.org/ftp/rsync/rsync-2.5.4.tar.gz
The current version was downloaded from:
https://rsync.samba.org/ftp/rsync/src/rsync-3.1.3.tar.gz
on 2018-12-02 by Samuel Henrique <samueloph@debian.org>.

The changes were very minimal - merely adding support for the Debian
package maintenance scheme by adding various debian/* files.
The only significant change is passing the -4 / -6 options through to ssh.
See the debian/patches/ directory.

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Source Package: xorg
Debian/Ubuntu package authors: Branden Robinson, Fabio M. Di Nitto, Daniel
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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
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lib/gssapi/mechglue/g_init_sec_context.c
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lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.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
slave/kpropd_rpc.c
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1.360 github.com/kubernetes-csi/csi-lib-utils

0.4.0-rc1

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** dns.c - Recursive, Reentrant DNS Resolver.**

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This gmp package was built for Debian by

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1.382 kube-rbac-proxy 0.8.0

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1.383 agentkeepalive 3.5.2

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1.384 tmp-promise 3.0.2

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1.385 python-dateutil 2.6.1-6.el8

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1.386 jsonpatch 4.9.0+incompatible

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1.387 netbase 5.6
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package spec

import (
    "encoding/json"
    "github.com/go-openapi/swag"
)

// License information for the exposed API.
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}

type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    return b1, err
}
b2, err := json.Marshal(l.VendorExtensible)
if err != nil {
    return nil, err
}
return swag.ConcatJSON(b1, b2), nil

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package api

import (  
    "io/ioutil"
    "strings"
    "time"
)

type License struct {  
    // The unique identifier of the license
    LicenseID string `json:"license_id"`
    // The customer ID associated with the license
    CustomerID string `json:"customer_id"`
    // If set, an identifier that should be used to lock the license to a
    // particular site, cluster, etc.
    InstallationID string `json:"installation_id"`
    // The time at which the license was issued
    IssueTime time.Time `json:"issue_time"`
    // The time at which the license starts being valid
    StartTime time.Time `json:"start_time"`
    // The time after which the license expires
    ExpirationTime time.Time `json:"expiration_time"`
// The time at which the license ceases to function and can
// no longer be used in any capacity
TerminationTime time.Time `json:"termination_time"

// The product the license is valid for
Product string `json:"product"

// License Specific Flags
Flags map[string]interface{} `json:"flags"

// Modules is a list of the licensed enterprise modules
Modules []string `json:"modules"

// List of features enabled by the license
Features []string `json:"features"

} type LicenseReply struct {
    Valid    bool
    License  *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query(`/v1/operator/license`, &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest(`GET`, `/v1/operator/license")
    r.params.Set(`signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return "", err
    }
    defer resp.Body.Close()

    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return "", err
    }

    return string(data), nil
// LicenseReset will reset the license to the built-in one if it is still valid.
// If the built-in license is invalid, the current license stays active.
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
}

func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
}

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.412 libdnf 0.48.0-5.el8

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1.413 normalize-package-data 2.5.0

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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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
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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
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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
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
slave/kpropd_rpc.c
slave/kproplog.c

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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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**1.442 python3.6-venv 3.6.9 1~18.04ubuntu1.4**

**1.442.1 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 http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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

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import: ../../../../fossene/db/schema/thing.yml

fields:
  site: string
  author: root

1.444 readline 8.1.0-r0

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```
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1.452 readline-common 7.0

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1.454 xz 5.2.4 1
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1.457 isarray 1.0.0

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* /opt/cola/permits/1108551330_1606173958.45/0/isarray-1-0-0-5-tgz/package/README.md

# JSONPath Plus [![build status](https://secure.travis-ci.org/s3u/JSONPath.png)](http://travis-ci.org/s3u/JSONPath)

Analyse, transform, and selectively extract data from JSON
documents (and JavaScript objects).

`jsonpath-plus` expands on the original specification to add some
additional operators and makes explicit some behaviors the original
did not spell out.

## Features

* **Compliant** with the original jsonpath spec
* Consistently **performant** per
  [json-querying-performance-testing](https://github.com/andykais/json-querying-performance-testing>)
  benchmarking, particularly for large data sets.
* Convenient **additions or elaborations** not provided in the original spec:
  * `^` for grabbing the **parent** of a matching item
  * `~` for grabbing **property names** of matching items (as array)
* **Type selectors** for obtaining:
  * Basic JSON types: `@null()`, `@boolean()`, `@number()`, `@string()`, `@array()`, `@object()`
  * `@integer()`
  * The compound type `@scalar()` (which also accepts `undefined` and
    non-finite numbers when querying JavaScript objects as well as all of the basic non-object/non-function
types)
  * `@other()` usable in conjunction with a user-defined `otherTypeCallback`
* Non-JS types that can nevertheless be used when querying
  non-JS JavaScript objects (`@undefined()`, `@function()`, `@nonFinite()`) 
  `@path`/`@parent`/`@property`/`@parentProperty` **shorthand selectors** within filters
* ***Escaping**
  * `\` for escaping remaining sequence
  * `@\["]\]`/`?@\["]\]` syntax for escaping special characters within
    property names in filters
* Documents `$.` (**getting all parent components**) 
* **ESM** and **UMD** export formats
* In addition to queried values, **can return various meta-information** including paths or pointers to the value, as well as the parent object and parent property name (to allow for modification).
* **Utilities for converting** between paths, arrays, and pointers
* Option to **prevent evaluations** permitted in the original spec or supply a **sandbox** for evaluated values.
* Option for **callback to handle results** as they are obtained.

### Install

```shell
npm install jsonpath-plus
```

### Setup

#### Node.js

```js
const {JSONPath} = require('jsonpath-plus');

const result = JSONPath({path: '...', json});
```

#### Browser

For browser usage you can directly include `dist/index-umd.js`; no Browserify magic is necessary:

```html
<script src="dist/index-umd.js"></script>

const result = JSONPath({path: '...', json: ...});
```

#### ESM (Modern browsers)

You may also use ES6 Module imports (for modern browsers):

```html
<script type="module">
import JSONPath from './node_modules/jsonpath-plus/dist/index-es.js';
const result = JSONPath({path: '...', json: ...});
</script>
```

### ESM (Bundlers)
Or if you are bundling your JavaScript (e.g., with Rollup), just use:

```js
import JSONPath from 'jsonpath-plus';

const result = JSONPath({path: '...', json});
```

## Usage

The full signature available is:

```js
const result = JSONPath([options,] path, json, callback, otherTypeCallback);
```

The arguments `path`, `json`, `callback`, and `otherTypeCallback` can alternatively be expressed (along with any other of the available properties) on `options`.

Note that `result` will contain all items found (optionally wrapped into an array) whereas `callback` can be used if you wish to perform some operation as each item is discovered, with the callback function being executed 0 to N times depending on the number of independent items to be found in the result. See the docs below for more on `JSONPath`’s available arguments.

### Properties

The properties that can be supplied on the options object or evaluate method (as the first argument) include:

- `***path*** (**required***) - The JSONPath expression as a (normalized or unnormalized) string or array
- `***json*** (**required***) - The JSON object to evaluate (whether of
  null, boolean, number, string, object, or array type).
- `***autostart*** (**default: true***) - If this is supplied as `false`,
  one may call the `evaluate` method manually.
- `***flatten*** (**default: false***) - Whether the returned array of results
  will be flattened to a single dimension array.
- `***resultType*** (**default: "value"***) - Can be case-insensitive form of
  "value", "path", "pointer", "parent", or "parentProperty" to determine
  respectively whether to return results as the values of the found items,
  as their absolute paths, as [JSON Pointers](http://www.rfc-base.org/txt/rfc-6901.txt)
  to the absolute paths, as their parent objects, or as their parent's
  property name. If set to "all", all of these types will be returned on
  an object with the type as key name.
- **sandbox** (**default: {}**) - Key-value map of variables to be available to code evaluations such as filtering expressions. (Note that the current path and value will also be available to those expressions; see the Syntax section for details.)
- **wrap** (**default: true**) - Whether or not to wrap the results in an array. If `wrap` is set to `false`, and no results are found, `undefined` will be returned (as opposed to an empty array when `wrap` is set to true). If `wrap` is set to `false` and a single non-array result is found, that result will be the only item returned (not within an array). An array will still be returned if multiple results are found, however. To avoid ambiguities (in the case where it is necessary to distinguish between a result which is a failure and one which is an empty array), it is recommended to switch the default to `false`.
- **preventEval** (**default: false**) - Although JavaScript evaluation expressions are allowed by default, for security reasons (if one is operating on untrusted user input, for example), one may wish to set this option to `true` to throw exceptions when these expressions are attempted.
- **parent** (**default: null**) - In the event that a query could be made to return the root node, this allows the parent of that root node to be returned within results.
- **parentProperty** (**default: null**) - In the event that a query could be made to return the root node, this allows the `parentProperty` of that root node to be returned within results.
- **callback** (**default: (none)**) - If supplied, a callback will be called immediately upon retrieval of an end point value. The three arguments supplied will be the value of the payload (according to `resultType`), the type of the payload (whether it is a normal "value" or a "property" name), and a full payload object (with all `resultType`s).
- **otherTypeCallback** (**default: \A function that throws an error** when @other() is encountered\)** - In the current absence of JSON Schema support, one can determine types beyond the built-in types by adding the operator `@other()` at the end of one's query. If such a path is encountered, the `otherTypeCallback` will be invoked with the value of the item, its path, its parent, and its parent's property name, and it should return a boolean indicating whether the supplied value belongs to the "other" type or not (or it may handle transformations and return false).

### Instance methods

- **evaluate(path, json, callback, otherTypeCallback)** OR
  **evaluate({path: \<path\>, json: \<json object\>, callback:***,**
  **\<callback function\>, otherTypeCallback:***,**
  **\<otherTypeCallback function\>})** - This method is only necessary if the `autostart` property is set to `false`. It can be used for repeated evaluations using the same configuration.
Besides the listed properties, the latter method pattern can accept any of the other allowed instance properties (except for `autostart` which would have no relevance here).

### Class properties and methods

- ***JSONPath.cache*** - Exposes the cache object for those who wish to preserve and reuse it for optimization purposes.
- ***JSONPath.toPathArray(pathAsString)*** - Accepts a normalized or unnormalized path as string and converts to an array: for example, `['$', 'aProperty', 'anotherProperty']`.
- ***JSONPath.toPathString(pathAsArray)*** - Accepts a path array and converts to a normalized path string. The string will be in a form like: `'$[aProperty][anotherProperty][0]'`. The JSONPath terminal constructions `~` and `^` and type operators like `@string()` are silently stripped.
- ***JSONPath.toPointer(pathAsArray)*** - Accepts a path array and converts to a [JSON Pointer](http://www.rfc-base.org/txt/rfc-6901.txt). The string will be in a form like: `/aProperty/anotherProperty/0` (with any `~` and `/` internal characters escaped as per the JSON Pointer spec). The JSONPath terminal constructions `~` and `^` and type operators like `@string()` are silently stripped.

## Syntax through examples

Given the following JSON, taken from [http://goessner.net/articles/JsonPath/]:

```json
{
  "store": {
    "book": [
      {
        "category": "reference",
        "author": "Nigel Rees",
        "title": "Sayings of the Century",
        "price": 8.95
      },
      {
        "category": "fiction",
        "author": "Evelyn Waugh",
        "title": "Sword of Honour",
        "price": 12.99
      },
      {
        "category": "fiction",
        "author": "Herman Melville",
        "title": "Moby Dick",
        "isbn": "0-553-21311-3",
        "price": 12.99
      }
    ]
  }
}
```
"price": 8.99
},
{
"category": "fiction",
"author": "J. R. R. Tolkien",
"title": "The Lord of the Rings",
"isbn": "0-395-19395-8",
"price": 22.99
}
],
"bicycle": {
"color": "red",
"price": 19.95
}
]
}
}
...

and the following XML representation:

```xml
...
<store>
  <book>
    <category>reference</category>
    <author>Nigel Rees</author>
    <title>Sayings of the Century</title>
    <price>8.95</price>
  </book>
  <book>
    <category>fiction</category>
    <author>Evelyn Waugh</author>
    <title>Sword of Honour</title>
    <price>12.99</price>
  </book>
  <book>
    <category>fiction</category>
    <author>Herman Melville</author>
    <title>Moby Dick</title>
    <isbn>0-553-21311-3</isbn>
    <price>8.99</price>
  </book>
  <book>
    <category>fiction</category>
    <author>J. R. R. Tolkien</author>
    <title>The Lord of the Rings</title>
    <isbn>0-395-19395-8</isbn>
    <price>22.99</price>
  </book>
</store>
```
Please note that the XPath examples below do not distinguish between retrieving elements and their text content (except where useful for comparisons or to prevent ambiguity).

<table>
<thead>
<tr>
<th>XPath</th>
<th>JSONPath</th>
<th>Result</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>/store/book/author</td>
<td>$.store.book[*].author</td>
<td>The authors of all books in the store</td>
<td>Can also be represented without the <code>$</code> as <code>store.book[*].author</code> (though this is not present in the original spec); note that some character literals (<code>$</code> and <code>@</code>) require escaping, however</td>
</tr>
<tr>
<td>/store/*</td>
<td>$.store.*</td>
<td>All things in store, which are its books (a book array) and a red bicycle (a bicycle object),</td>
<td></td>
</tr>
<tr>
<td>/store/price</td>
<td>$.store..price</td>
<td>The price of everything in the store.</td>
<td></td>
</tr>
<tr>
<td>/book[last()]</td>
<td>$.book[(@.length-1)&lt;br&gt;$..book[-1:]</td>
<td>The last book in order.</td>
<td>To access a property with a special character, utilize <code>['@[...]]'</code> for the filter (this particular feature is not present in the original spec)</td>
</tr>
<tr>
<td>/book[position()&lt;3]</td>
<td>$.book[0,1]</td>
<td>The first two books</td>
<td></td>
</tr>
<tr>
<td>//book[isbn]</td>
<td>$.book[?(@.isbn)]</td>
<td>Filter all books with an ISBN number</td>
<td>To access a property with a special character, utilize <code>[@[...]]</code> for the filter (this particular feature is not present in the original spec)</td>
</tr>
<tr>
<td>//book[price&lt;10]</td>
<td>$.book[?(@.price&lt;10)]</td>
<td>Filter all books cheaper than 10</td>
<td></td>
</tr>
</tbody>
</table>
| //
| | The root of the JSON object (i.e., the whole object itself) | To get a literal `$` (by itself or anywhere in the path), you must use the backtick escape |
| //
| | All Elements (and text) beneath root in an XML document. All members of a JSON structure beneath the root. | |
| //
| | All Elements in an XML document. All parent components of a JSON structure including root. | This behavior was not directly specified in the original spec |
| //\[price>19\]     | $.\[?(@.price>19)] | Parent of those specific items with a price greater than 19 (i.e., the store value as the parent of the bicycle and the book array as parent of an individual book) | Parent (caret) not present in the original spec |
| /store/*/name()   | $.store.*~ | The property names of the store sub-object ("book" and "bicycle"). Useful with wildcard properties. | Property name (tilde) is not present in the original spec |
| /store/book[not(is /store/book[1])] | $.store.book[?(@path !== "$\[\"store\\]\[\"book\\]\[0\]"')] | All books besides that at the path pointing to the first | @path not present in the original spec |
| /book[parent::\/*[\~"red"]\/*[\~"category"] | $.book[?(@parent.bicycle && @parent.bicycle.color !== "red")\/*[\~"category"] | Grabs all categories of books where the parent object of the book has a bicycle child whose color is red (i.e., all the books) | @parent is not present in the original spec |
| /book/*/name()   | $.\[?(@property !== "category")] | Grabs all children of "book" except for
"category" ones | @property is not present in the original spec
//book/*[position() != 0] | $.book[?(@property != 0)] | Grabs all books whose property (which, being that we are reaching inside an array, is the numeric index) is not 0 | @property is not present in the original spec
/store/*[name(parent::* ) != 'book'] | $.store.[?!(@parentProperty != "book") ] | Grabs the grandchildren of store whose parent property is not book (i.e., bicycle's children, "color" and "price") | @parentProperty is not present in the original spec
//book[count(preceding-sibling::*) != 0]/*text() | $.book.[?(@parentProperty != 0)] | Get the property values of all book instances whereby the parent property of these values (i.e., the array index holding the book item parent object) is not 0 | @parentProperty is not present in the original spec
//book/../*instance of element(*, xs:decimal) (in XPath 2.0) | $.book..@number() | Get the numeric values within the book array | @number(), the other basic types (@boolean(), @string()), other low-level derived types (@null(), @object(), @array()), the JSONSchema-added type, @integer(), the compound type @scalar() (which also accepts `undefined` and non-finite numbers for JavaScript objects as well as all of the basic non-object/non-function types), the type, @other(), to be used in conjunction with a user-defined callback (see `otherTypeCallback`) and the following non-JSObject types that can nevertheless be used with JSONPath when querying non-JSON JavaScript objects (@undefined(), @function(), @nonFinite()) are not present in the original spec
\`` ``` (e.g., ``` $`` to match a property literally named `$`) | Escapes the entire sequence following (to be treated as a literal) ``` `\`` is not present in the original spec; to get a literal backtick, use an additional backtick to escape

Any additional variables supplied as properties on the optional "sandbox" object option are also available to (parenthetical-based) evaluations.

### Potential sources of confusion for XPath users

1. In JSONPath, a filter expression, in addition to its `@` being a reference to its children, actually selects the immediate children as well, whereas in XPath, filter conditions do not select the children but delimit which of its parent nodes will be obtained in the result.
1. In JSONPath, array indexes are, as in JavaScript, 0-based (they begin from 0), whereas in XPath, they are 1-based.
1. In JSONPath, equality tests utilize (as per JavaScript) multiple equal signs whereas in XPath, they use a single equal sign.

### Ideas

1. Support OR outside of filters (as in XPath `|`) and grouping.
1. Create syntax to work like XPath filters in not selecting children?
1. Allow option for parentNode equivalent (maintaining entire chain of parent-and-parentProperty objects up to root)

### Development

Running the tests on Node:

````
```
```
For in-browser tests:

- Serve the js/html files:

```shell
```
```
pnpm run browser-test
```


## License

[MIT License](http://www.opensource.org/licenses/mit-license.php).

Found in path(s):
* /opt/cola/permits/1238700415_1638982061.6/0/jsonpath-plus-0-19-0-tgz/package/README.md

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# jsonpath-plus changes

## 0.19.0 (May 16, 2019)

- Docs (README): Indicate features, including performance (removing old note)
- Docs (README): Add headings for setup and fix headings levels
- Docs (README): Indicate parent selector was not present in original spec (not just not documented)
- Docs (README): Fix escaping
- Linting: Switch to Unix line breaks and other changes per ash-nazg, including linting Markdown JS
- Linting: Use recommended `.json` extension
- Linting: Switch to ash-nazg
- Linting: Add lgtm.yml file for lgtm.com
- npm: Update devDeps, and update per security audit

## 0.18.1 (May 14, 2019)

- Fix: Expose `pointer` on `resultType: "all"`

## 0.18.0 (October 20, 2018)

- Security enhancement: Use global eval instead of regular eval
- Fix: Handle React-Native environment's lack of support for Node vm (@simon-scherzinger); closes #87
- Refactoring: Use arrow functions, for-of, declare block scope vars closer to block
- Docs: Clarify current `wrap` behavior
- npm: Add Rollup to test scripts
## 0.17.0 (October 19, 2018)

- Breaking change: With Node use, must now use
  `require('jsonpath-plus').JSONPath`.
- Breaking change: Stop including polyfills for array and string `includes`
  (can get with `@babel/polyfill` or own)
- Breaking change: Remove deprecated `JSONPath.eval`
- License: Remove old and unneeded license portion from within source file
  (already have external file)
- Fix: Support object shorthand functions on sandbox objects
  (`toString()` had not been working properly with them)
- Enhancement: Add Rollup/Babel/Terser and `module` in `package.json`
- Refactoring: Use ES6 features such as object shorthand
- Linting: prefer const and no var
- Testing: Replace custom server code with `node-static` and add `opn-cli`;
  mostly switch to ESM
- npm: Update devDeps; add `package-lock.json`; remove non-functioning remark

## 0.16.0 (January 14, 2017)

- Breaking change: Give preference to treating special chars in a property
  as special (override with backtick operator)
- Breaking feature: Add custom `\` operator to allow unambiguous literal
  sequences (if an initial backtick is needed, an additional one must
  now be added)
- Fix: `toPathArray` caching bug
- Improvements: Performance optimizations
- Dev testing: Rename test file

## 0.15.0 (Mar 15, 2016)

- Fix: Fixing support for sandbox in the case of functions
- Feature: Use `this` if present for global export
- Docs: Clarify function signature
- Docs: Update testing section
- Dev testing: Add in missing test for browser testing
- Dev testing: Add remark linting to testing process (#70)
- Dev testing: Lint JS test support files
- Dev testing: Split out tests into `eslint`, `remark`, `lint`, `nodeunit`
- Dev testing: Remove need for nodeunit build step
- Dev testing: Simplify nodeunit usage and make available
  as `npm run browser-test`

## 0.14.0 (Jan 10, 2016)

- Feature: Add `@scalar()` type operator (in JavaScript mode, will also
  include)
## 0.13.1 (Jan 5, 2016)

- Fix: Avoid double-encoding path in results

## 0.13.0 (Dec 13, 2015)

- Breaking change (from version 0.11): Silently strip `~` and `^` operators and type operators such as `@string()` in `JSONPath.toPathString()` calls.
- Breaking change: Remove `Array.isArray` polyfill as no longer supporting IE <= 8
- Feature: Allow omission of options first argument to `JSONPath`.
- Feature: Add `JSONPath.toPointer()` and "pointer" `resultType` option.
- Fix: Correctly support `callback` and `otherTypeCallback` as numbered arguments to `JSONPath`.
- Fix: Enhance Node checking to avoid issue reported with angular-mock
- Fix: Allow for `@` or other special characters in at-sign-prefixed property names (by use of `[(?[@...'...'])]` or `[(@[...'...'])]`).

## 0.12.0 (Dec 12, 2015 10:39pm)

- Breaking change: Problems with upper-case letters in npm is causing us to rename the package, so have renamed package to "jsonpath-plus" (there are already package with lower-case "jsonpath" or "json-path"). The new name also reflects that there have been changes to the original spec.

## 0.11.2 (Dec 12, 2015 10:36pm)

- Docs: Actually add the warning in the README that problems in npm with upper-case letters is causing us to rename to "jsonpath-plus" (next version will actually apply the change).

## 0.11.1 (Dec 12, 2015 10:11pm)

- Docs: Give warning in README that problems in npm with upper-case letters is causing us to rename to "jsonpath-plus" (next version will actually apply the change).

## 0.11.0 (Dec 12, 2015)

- Breaking change: For unwrapped results, return `undefined` instead of `false` upon failure to find path (to allow distinguishing of `undefined`--a non-allowed JSON value--from the valid JSON values, `null` or `false`) and return the exact value upon falsy single results (in order to allow return of `null`)
- Deprecated: Use of `jsonPath.eval()`; use new class-based API instead
- Feature: AMD export
- Feature: By using `self` instead of `window` export, allow JSONPath
to be trivially imported into web workers, without breaking compatibility in normal scenarios. See [MDN on self](https://developer.mozilla.org/en-US/docs/Web/API/Window/self)

- **Feature:** Offer new class-based API and object-based arguments (with option to run new queries via `evaluate()` method without resupplying config)
- **Feature:** Allow new `preventEval=true` and `autostart=false` option
- **Feature:** Allow new callback option to allow a callback function to execute as each final result node is obtained
- **Feature:** Allow type operators: JavaScript types (`@boolean()`, `@number()`, `@string()`), other fundamental JavaScript types (`@null()`, `@object()`, `@array()`), the JSONSchema-added type, `@integer()`, and the following non-JSON types that can nevertheless be used with JSONPath when querying non-JSON JavaScript objects (`@undefined()`, `@function()`, `@nonFinite()`).

Finally, `@other()` is made available in conjunction with a new callback option, `otherTypeCallback`, can be used to allow user-defined type detection (at least until JSON Schema awareness may be provided).

- **Feature:** Support "parent" and "parentProperty" for resultType along with "all" (which also includes "path" and "value" together)
- **Feature:** Support custom `@parent`, `@parentProperty`, `@property` (in addition to custom property `@path`) inside evaluations
- **Feature:** Support a custom operator (~) to allow grabbing of property names
- **Feature:** Support `$` for retrieval of root, and document this as well as `$..` behavior
- **Feature:** Expose cache on `JSONPath.cache` for those who wish to preserve and reuse it
- **Feature:** Expose class methods `toPathString` for converting a path as array into a (normalized) path as string and `toPathArray` for the reverse (though accepting unnormalized strings as well as normalized)
- **Fix:** Allow `^` as property name
- **Fix:** Support `.\.` within properties
- **Fix:** `@path` in index/property evaluations

### 0.10.0 (Oct 23, 2013)

- **Feature:** Support for parent selection via `^`
- **Feature:** Access current path via `@path` in test statements
- **Feature:** Allowing for multi-statement evals
- **Improvements:** Performance

### 0.9.0 (Mar 28, 2012)

- **Feature:** Support a sandbox arg to eval
- **Improvements:** Use `vm.runInNewContext` in place of eval

Found in path(s):
* /opt/cola/permits/1238700415_1638982061.6/0/jsonpath-plus-0-19-0-tgz/package/CHANGES.md
1.459 gax-go 2.1.0

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1.460 github.com/themihai/gomemcache

0.0.0-20180902122335-24332e2d58ab

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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complete object files to the recipients so that they can relink them
with the library, after making changes to the library and recompiling
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Our method of protecting your rights has two steps: (1) copyright
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Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

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

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

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

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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Section 6 states terms for distribution of such executables.

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

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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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<signature of Ty Coon>, 1 April 1990
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resources:
repository: http://github.com/chorny/Text-ParseWords
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=head1 NAME

Text::ParseWords - parse text into an array of tokens or array of arrays

=head1 SYNOPSIS

use Text::ParseWords;
@lists = nested_quotewords($delim, $keep, @lines);
@words = quotewords($delim, $keep, @lines);
@words = shellwords(@lines);
@words = parse_line($delim, $keep, $line);
@words = old_shellwords(@lines); # DEPRECATED!

=head1 DESCRIPTION

The &nested_quotewords() and &quotewords() functions accept a delimiter (which can be a regular expression) and a list of lines and then breaks those lines up into a list of words ignoring delimiters that appear inside quotes. &quotewords() returns all of the tokens in a single long list, while &nested_quotewords() returns a list of token lists corresponding to the elements of @lines. &parse_line() does tokenizing on a single string. The &*quotewords() functions simply call &parse_line(), so if you're only splitting one line you can call &parse_line() directly and save a function call.

The $keep argument is a boolean flag. If true, then the tokens are split on the specified delimiter, but all other characters (including quotes and backslashes) are kept in the tokens. If $keep is false then the &*quotewords() functions remove all quotes and backslashes that are not themselves backslash-escaped or inside of single quotes (i.e., &quotewords() tries to interpret these characters just like the Bourne shell). NB: these semantics are significantly different from the original version of this module shipped with Perl 5.000 through 5.004. As an additional feature, $keep may be the keyword "delimiters" which causes the functions to preserve the delimiters in each string as
tokens in the token lists, in addition to preserving quote and
backslash characters.

&shellwords() is written as a special case of &quotewords(), and it
does token parsing with whitespace as a delimiter-- similar to most
Unix shells.

=head1 EXAMPLES

The sample program:

use Text::ParseWords;
@words = quotewords("\s+", 0, q{this is "a test" of\ quotewords \"for you\});
$i = 0;
foreach (@words) {
    print "$i: <$_>
    $i++;
}

produces:

0: <this>
1: <is>
2: <a test>
3: <of quotewords>
4: <"for>
5: <you>

demonstrating:

=over 4
=item 0Z<>
a simple word
=item 1Z<>
multiple spaces are skipped because of our $delim
=item 2Z<>
use of quotes to include a space in a word
=item 3Z<>
use of a backslash to include a space in a word
use of a backslash to remove the special meaning of a double-quote

another simple word (note the lack of effect of the backslashed double-quote)

Replacing \"words\" with \shellwords\ is a simpler way to accomplish the same thing.

SEE ALSO

L<Text::CSV> - for parsing CSV files

AUTHORS

Maintainer: Alexandr Ciornii <alexchornyATgmail.com>.

Previous maintainer: Hal Pomeranz <pomeranz@netcom.com>, 1994-1997 (Original author unknown). Much of the code for &parse_line() (including the primary regexp) from Joerk Behrends <jbehrends@multimediaproduzenten.de>.

Examples section another documentation provided by John Heidemann <johnh@ISI.EDU>

Bug reports, patches, and nagging provided by lots of folks—thanks everybody! Special thanks to Michael Schwern <schwern@envirolink.org> for assuring me that a &nested_quotewords() would be useful, and to Jeff Friedl <jfriedl@yahoo-inc.com> for telling me not to worry about error-checking (sort of— you had to be there).

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1.481 libncurses 6.1+20181013 2+deb10u2

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1.482 githubcommattngorunewidth 0.0.4

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1.483 automaxprocs 1.4.0

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1.484 e2fslibs 1.43.4-2

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

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

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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import: ../../../../fossene/db/schema/thing.yml

fields:
  site: string
  author: root
1.488 libnftnl11 1.1.2 2

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//   Date: 2011-02-01
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Jan 21, 2002

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package gnu.classpath.tools.taglets;
import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
        return true;
    }

    public boolean isInlineTag() {
        return false;
    }

    public static void register(Map tagletMap) {

    }
}
CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    }
    else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>");
            for (int i = 0; i < tags.length; i++) {
                if (tags[i].text().length() > 0) {
                    result.append("<dt><i>Copyright © " + tags[i].text() + "</dt>");
                }
            }
            result.append("</dl>");
            return result.toString();
        }
        return null;
    }
}

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That's all there is to it!

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_Permission__
#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
class Permission;

class PermissionCollection;
}
}
}

class java::security::Permission : public ::java::lang::Object
{

public:

Permission(::java::lang::String *);

virtual void checkGuard(::java::lang::Object *);
virtual jboolean implies(::java::security::Permission *) = 0;
virtual jboolean equals(::java::lang::Object *) = 0;
virtual jint hashCode() = 0;
virtual ::java::lang::String * getName();
virtual ::java::lang::String * getActions() = 0;
virtual ::java::security::PermissionCollection * newPermissionCollection();
virtual ::java::lang::String * toString();
private:
static const jlong serialVersionUID = -5636570222231596674LL;
::java::lang::String * __attribute__((aligned(__alignof__(::java::lang::Object)))) name;
public:
static ::java::lang::Class class$;
};

#endif // __java_security_Permission__

" Automatically generated by Pod::Man 4.09 (Pod::Simple 3.35)
"
" Standard preamble:
" ========================================================================
.de Sp " Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
..
.de Vb " Begin verbatim text
.ft CW
.nf
.ne \\
.
.de Ve " End verbatim text
.ft R
.fi
..
" Set up some character translations and predefined strings. \*(-- will
" give an unbreakable dash, \*(PI will give pi, \*(L" will give a left
" double quote, and \*(R" will give a right double quote. \*(C+ will
" give a nicer C++. Capital omega is used to do unbreakable dashes and
" therefore won't be available. \*(C` and \*(C` expand to `" in nroff, 
" nothing in troff, for use with C<>.
.tr \]*(W-
.ds C+ C\v`-1v\h`-1p\s-2+\h`-1p+\s0\v`.1v\h`-1p`
.ie n \\
 . ds -- \]*(W-
 . ds PI pi
 . if (n.(H=4u)&(1m=24u) .ds -- \}*W\h`-12u\(*W\h`-12u\`\in\"
 . if (n.(H=4u)&(1m=20u) .ds -- \}*W\h`-12u\(*W\h`-8u\`\in\"
 . ds L" "
 . ds R" "
 . ds C` "

Escape single quotes in literal strings from groff's Unicode transform.

If the F register is >0, we'll generate index entries on stderr for titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index entries marked with X<> in POD. Of course, you'll have to process the output yourself in some meaningful fashion.

Avoid warning from groff about undefined register 'F'.

Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).

Fear. Run. Save yourself. No user-serviceable parts.

fudge factors for nroff and troff

if n \n
  ds #H 0
  ds #V .8m
  ds #F .3m
  ds #f .0m
  ds #d .6m
  ds #F 0
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sp 1. source code.

ix item "1. source code."

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@example
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/* Permission.java -- The superclass for all permission objects

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package java.security;
import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 *
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 *
 * <p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 * @see Permissions
 * @see PermissionCollection
 * @since 1.1
 * @status updated to 1.4
 */

public abstract class Permission implements Guard, Serializable {

    /**
     * Compatible with JDK 1.1+.
     */
    private static final long serialVersionUID = -5636570222231596674L;

    /**
     * This is the name assigned to this permission object.
     *
     * @serial the name of the permission
     */
    private String name;

* Create an instance with the specified name.
* 
* @param name the permission name
*/
public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in <code>SecurityManager</code> with this <code>Permission</code> as its argument. This method returns silently if the security check succeeds or throws an exception if it fails.
 * 
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
    {
        sm.checkPermission(this);
    }
}

/**
 * This method tests whether this <code>Permission</code> implies that the specified <code>Permission</code> is also granted.
 * 
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather than <code>equals</code>, when making access control decisions.
 * 
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It must satisfy the contract of <code>Object.hashCode</code>: it must be
* the same for all objects that equals considers to be the same.
*
* @return a hash value
*/
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 *
* @return the name
*/
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
* @return the action list for this <code>Permission</code>
*/
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 *
* @return a new <code>PermissionCollection</code>
*/
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>"(" + getClass().getName() + "+" + getName() + "+" + getActions
 * + "+")"</code>.
 *
* @return this object as a <code>String</code>
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());

    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}
} // class Permission

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

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

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

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
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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.

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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.

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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.

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

That's all there is to it!

Version 3, 29 June 2007

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is most unacceptable. Therefore, we have designed this version of the <acronym>GPL</acronym> to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the <acronym>GPL</acronym>, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the <acronym>GPL</acronym> assures that patents cannot be used to render the program non-free.

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The source code for a work means the preferred form of the work for making modifications to it. Object code means any non-source form of a work.

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used to run it.

The Corresponding Source for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the works System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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You may convey a covered work in object code form under the terms of
sections 4 and 5, provided that you also convey the machine-readable
Corresponding Source under the terms of this License, in one of these ways:

<orderedlist numeration="loweralpha" inheritnum="ignore" continuation="restarts">
    <listitem>
        <para>
            Convey the object code in, or embodied in, a physical product (including
            a physical distribution medium), accompanied by the Corresponding Source
            fixed on a durable physical medium customarily used for software
            interchange.
        </para>
    </listitem>
    <listitem>
        <para>
            Convey the object code in, or embodied in, a physical product (including
            a physical distribution medium), accompanied by a written offer, valid
            for at least three years and valid for as long as you offer spare parts
            or customer support for that product model, to give anyone who possesses
            the object code either (1) a copy of the Corresponding Source for all
            the software in the product that is covered by this License, on a
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            price no more than your reasonable cost of physically performing this
            conveying of source, or (2) access to copy the Corresponding Source from
            a network server at no charge.
        </para>
    </listitem>
    <listitem>
        <para>
            Convey individual copies of the object code with a copy of the written
            offer to provide the Corresponding Source. This alternative is allowed
            only occasionally and noncommercially, and only if you received the
            object code with such an offer, in accord with subsection 6b.
        </para>
    </listitem>
    <listitem>
        <para>
            Convey the object code by offering access from a designated place
            (gratis or for a charge), and offer equivalent access to the
            Corresponding Source in the same way through the same place at no
            further charge. You need not require recipients to copy the
            Corresponding Source along with the object code. If the place to copy
            the object code is a network server, the Corresponding Source may be on
            a different server (operated by you or a third party) that supports
            equivalent copying facilities, provided you maintain clear directions
            next to the object code saying where to find the Corresponding Source.
            Regardless of what server hosts the Corresponding Source, you remain
            obligated to ensure that it is available for as long as needed to
            satisfy these requirements.
        </para>
    </listitem>
</orderedlist>
<para>
Convey the object code using peer-to-peer transmission, provided you
inform other peers where the object code and Corresponding Source of the
work are being offered to the general public at no charge under
subsection 6d.
</para>
</listitem>
</orderedlist>

A separable portion of the object code, whose source code is excluded from
the Corresponding Source as a System Library, need not be included in
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</para>

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Ty Coon, President of Vice

That's all there is to it!

16/gnu/java/sound/AudioSecurityManager$Permissionjava/lang/EnumPLAY1Lgnu/java/sound/AudioSecurityManager$Permission;RECORDALLENUM$VALUES2Lgnu/java/sound/AudioSecurityManager$Permission;<clinit>()VCode
<init>(Ljava/lang/String;I)V
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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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</p><p><br /></p>

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#!/usr/bin/python
# Copyright (C) 2013-2016 Free Software Foundation, Inc.
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.

# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0
def report(self, filename, string):
    if filename:
        string = filename + ':' + string
    sys.stderr.write(string + '
')
    self.num_errors += 1

def ok(self):
    return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.m4',
            'ltversion.m4',
            'lt~obsolete.m4',
            'missing',
            'mkdep',
            'mkinstalldirs',
            'move-if-change',
            'shlibpath.m4',
        ''])
def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        re.compile ('\t')
        return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True
    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True
        if os.path.exists (base + '.in'):
            return True
    return False

def skip_dir (self, dir, subdir):
return subdir in self.skip_dirs

def is_fossilised_file(self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current ChangeLogs.
    if filename != 'ChangeLog' and filename.find('ChangeLog') >= 0:
        return True
    return False

def by_package_author(self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__(self, errors):
        self.errors = errors

        # Characters in a range of years. Include ',' for typos.
        ranges = '[0-9][?:[-0-9.,\s]s+and\s+]*[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '\[\w.-\]'

        # Matches one year.
        self.year_re = re.compile('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile(ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile(''
            # 1: 'Copyright (C)', etc.
            '((\[Cc\]opyright)' 
            '((\[Cc\]opyright)s+\((\[Cc\])\)' 
            ')(\[Cc\]opyright)s+%'s'
            '((\[Cc\]opyright)s+&copy;:' 
            ')(\[Cc\]opyright)s+@copyright\{ }' 
            'copyright = \u"' 
            '[@set]'s+copyright[\\w-\]+')

        # 2: the years. Include the whitespace in the year, so that
        # we can remove any excess.
        '\s*\((?: +ranges +\.,?)' 
        '\[@value\{[^{}]*\}\]s*')

        # 3: 'by ', if used
        '(by\s+)'
# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
(' + name + '(?s? + name + +)*)?')

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
                                  re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
sself.holders = { '@copying': '@copying' }
sself.holder_prefixes = set()

# True to 'quilt add' files before changing them.
sself.use_quilt = False

# If set, force all notices to include this year.
sself.max_year = None

# Goes after the year(s). Could be ', '.
sself.separator = ','

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
return year
raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years
    (min_year, max_year) = self.year_range (years)
    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
            and (holder not in self.holder_prefixes
                or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
next_line = None
pathname = os.path.join (dir, filename)

intro = match.group (1)
if intro.startswith ('@set'):
    # Texinfo year variables should always be on one line
    after_years = line[match.end (2):].strip()
    if after_years != ":":
        self.errors.report (pathname,
                        'trailing characters in @set: ' + after_years)
        return (False, orig_line, next_line)
else:
    # If it looks like the copyright is incomplete, add the next line.
    while not self.is_complete (match):
        try:
            next_line = file.next()
        except StopIteration:
            break

    # If the next line doesn't look like a proper continuation,
    # assume that what we've got is complete.
    continuation = self.strip_continuation (next_line)
    if not self.continuation_re.match (continuation):
        break

    # Merge the lines for matching purposes.
    orig_line += next_line
    line = line.rstrip() + ' ' + continuation
    next_line = None

    # Rematch with the longer line, at the original position.
    match = self.copyright_re.match (line, match.start())
    assert match

    holder = match.group (4)

    # Use the filter to test cases where markup is getting in the way.
    if filter.by_package_author (dir, filename):
        assert holder not in self.holders
    elif not holder:
        self.errors.report (pathname, 'missing copyright holder')
        return (False, orig_line, next_line)
    elif holder not in self.holders:
        self.errors.report (pathname, 'unrecognised copyright holder: ' + holder)
return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
        except self.BadYear as e:
            self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
            + ('' if intro.startswith ('copyright = ') else ' ')
            + canon_form + self.separator
            + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)'
    elif intro.endswith ('(c)'):
        intro = intro[:-3] + '(C)'
    line = line[:match.start (1)] + intro + line[match.end (1):]

    # Strip trailing whitespace
    line = line.rstrip() + '

    return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
except OSError:
    pass
return

lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)
with open (pathname, 'r') as file:
    prev = None
    for line in file:
        while line:
            next_line = None
            # Leave filtered-out lines alone.
            if not (line_filter and line_filter.match (line)):
                match = self.copyright_re.search (line)
                if match:
                    res = self.update_copyright (dir, filename, filter,
                                                 file, line, match)
                    (this_changed, line, next_line) = res
                    changed = changed or this_changed
            # Check for copyright lines that might have slipped by.
            elif self.other_copyright_re.search (line):
                self.errors.report (pathname,
                                    'unrecognised copyright: %s'
                                    % line.strip())
                lines.append (line)
                line = next_line

# If something changed, write the new file out.
if changed and self.errors.ok():
    tmp_pathname = pathname + '.tmp'
    with open (tmp_pathname, 'w') as file:
        for line in lines:
            file.write (line)
    if self.use_quilt:
        subprocess.call (['quilt', 'add', pathname])
    os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
if filter.skip_file (dir, filename):
    sys.stdout.write ('Skipping %s
    % os.path.join (dir, filename))
else:
    self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
                        self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
                        self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...

        Options:
' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))
        sys.stdout.write ('
Directories:
')
        format = '%-25s'
        i = 0
        for (dir, filter) in self.dirs:
            i += 1
            if i % 3 == 0 or i == len (self.dirs):
                sys.stdout.write (dir + '
')
            else:
                sys.stdout.write (format % dir)
        sys.exit (0)

    def o_quilt (self, option):
self.copyright.set_use_quilt(True)

def o_this_year(self, option):
    self.copyright.include_year(time.localtime().tm_year)

def main(self):
    for arg in sys.argv[1:]:
        if arg[1:] != '-':
            self.chosen_dirs.append(arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg](arg)
        else:
            self.errors.report(None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len(self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len(self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join(chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith(canon_dir):
                        count += 1
                self.copyright.process_tree(dir, filter)
                if count == 0:
                    self.errors.report(None, 'unrecognised directory: ' + chosen_dir)
    sys.exit(0 if self.errors.ok() else 1)

#----------------------------------------------------------------------------
class TopLevelFilter(GenericFilter):
    def skip_dir(self, dir, subdir):
        return True

class ConfigFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

    def skip_file(self, dir, filename):
        if filename.endswith('.m4'):
            pathname = os.path.join(dir, filename)
            with open(pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find('gettext-') >= 0:
                    return True
return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
            # Not part of GCC
            'math-68881.h',
        ])

        self.skip_dirs |= set ([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',
            # Handled separately.
            'testsuite',
        ])

        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',
            # Automatically-generated.
            '.pot',
        ])

        self.fossilised_files |= set ([
            # Old news won't be updated.
            'ONEWS',
        ])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
            '.java',
        ])

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def skip_file(self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename(dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ])

    def get_line_filter(self, dir, filename):
        if filename == 'NameDecoder.h':
return re.compile ('.*NAME_COPYRIGHT')
if filename == 'ICC_Profile.h':
    return re.compile ('.*icSigCopyrightTag')
return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ({
            # Handled separately.
            'testsuite',
        })

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ({
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        })

        self.skip_dirs |= set ({
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        })

        self.own_files |= set ({
            # Contains markup around the copyright owner.
            'spine.xml',
        })

    def get_line_filter (self, dir, filename):
        if filename == 'boost_concept_check.h':
            return re.compile ('// (C) Copyright Jeremy Siek')
        return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)
cannon_fsf = 'Free Software Foundation, Inc.'
self.add_package_author ('Free Software Foundation', cannon_fsf)
self.add_package_author ('Free Software Foundation.', cannon_fsf)
self.add_package_author ('Free Software Foundation Inc.', cannon_fsf)
self.add_package_author ('Free Software Foundation, Inc', cannon_fsf)
self.add_package_author ('Free Software Foundation, Inc.', cannon_fsf)
self.add_package_author ('The Free Software Foundation', cannon_fsf)
self.add_package_author ('The Free Software Foundation, Inc.', cannon_fsf)
self.add_package_author ('Software Foundation, Inc.', cannon_fsf)

self.add_external_author ('ARM')
self.add_external_author ('AdaCore')
self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
self.add_external_author ('Cavium Networks.')
self.add_external_author ('Faraday Technology Corp.')
self.add_external_author ('Florida State University')
self.add_external_author ('Greg Colvin and Beman Dawes.')
self.add_external_author ('Hewlett-Packard Company')
self.add_external_author ('Information Technology Industry Council.')
self.add_external_author ('James Theiler, Brian Gough')
self.add_external_author ('Makoto Matsumoto and Takuji Nishimura')
self.add_external_author ('National Research Council of Canada')
self.add_external_author ('NVIDIA Corporation')
self.add_external_author ('Peter Dimov and Multi Media Ltd.')
self.add_external_author ('Peter Dimov')
self.add_external_author ('Pipeline Associates, Inc.')
self.add_external_author ('Regents of the University of California')
self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
self.add_external_author ('Silicon Graphics')
self.add_external_author ('Stephen L. Moshier')
self.add_external_author ('Sun Microsystems, Inc. All rights reserved.')
self.add_external_author ('The Go Authors. All rights reserved.')
self.add_external_author ('The Regents of the University of California')
self.add_external_author ('Unicode, Inc.')
self.add_external_author ('University of Toronto')

class GCCCmdLine (CmdLine):
def __init__ (self):
    CmdLine.__init__ (self, GCCCopyright)

    self.add_dir ('.', TopLevelFilter())
    # boehm-gc is imported from upstream.
    self.add_dir ('config', ConfigFilter())
    # contrib isn't really part of GCC.
    self.add_dir ('fixincludes')
    self.add_dir ('gcc', GCCFilter())
self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
self.add_dir('gnatools')
self.add_dir('include')
self.add_dir('libada')
self.add_dir('libatomic')
self.add_dir('libbacktrace')
self.add_dir('libcpp', LibCppFilter())
self.add_dir('libdecnumber')
# libffi is imported from upstream.
self.add_dir('libgcc', LibGCCFilter())
self.add_dir('libgfortran')
self.add_dir('libgomp')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libjava', LibJavaFilter())
self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir('libmudflap', LibMudflapFilter())
self.add_dir(os.path.join('libmudflap', 'testsuite'), TestsuiteFilter())
self.add_dir('libobjc')
self.add_dir('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('libvtv')
self.add_dir('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = ['gcc', 'libada', 'libatomic', 'libbacktrace', 'libcpp', 'libdecnumber', 'libgcc', 'libgfortran', 'libgomp', 'libitm', 'libmudflap', 'libobjc', 'libstdc++-v3',]

GCCCmdLine().main()
1f+gnu/classpath/tools/taglets/CopyrightTagletjava/lang/Objectcom/sun/tools/doclets/TagletNAMELjava/lang/Strin
g;
ConstantValuecopyrightHEADER
Copyright: <init>() VCode
LineNumberTableLocalVariableTablethis-
Lgnu/classpath/tools/taglets/CopyrightTaglet;getName()Ljava/lang/String;inField()Z
inConstructorinMethod
inOverviewinPackageinTypeisInlineTagregister(Ljava/util/Map;)V

&(*)
java/util/Map+.put8(Ljava/lang/Object;Ljava/lang/Object;Ljava/lang/Object;
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KX0Z</dl>
BXtags[Lcom/sun/javadoc/Tag;haveValidTagZiIresultLjava/lang/StringBuffer;
SourceFileCopyrightTaglet.java!

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/01A
*2Y+S4\n
7806)+=>+29<==+BYDN-EGW67+29<%-KYMO+29RURWGW+-YGW-[F^adefge+k/l7m>nDoSpunstw>|"^_`a7TbcA">:ade
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@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License
@center 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.]
@end display

@appendixsubsec Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software---to make sure the software is free for all its users.

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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.

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

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

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

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

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

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

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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@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end iftex
@ifinfo
@center GNU LESSER GENERAL PUBLIC LICENSE
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@end ifinfo

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

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

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

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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 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.

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:
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.)

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.

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.

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.

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.
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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:

1. 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.
2. 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.

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<td>lib/java/security/acl/Permission</td>
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<td>java/lang/Object;equals(Ljava/lang/Object;)</td>
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<td></td>
<td>ZtoString();Ljava/lang/String;</td>
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<tr>
<td></td>
<td>SourceFilePermission.java</td>
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<td>libffi</td>
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1[java/security/Permissionjava/lang/Objectjava/security/Guardjava/io/SerializableserialVersionUIDJ
ConstantValue?(WQ~nameLjava/lang/String;<init>(Ljava/lang/String;)VCode
()V	LineNumberTableLocalVariableTablethisLjava/security/Permission;
checkGuard(Ljava/lang/Object;)VobjLjava/lang/Object;smLjava/lang/
SecurityManager;implies(Ljava/security/Permission;)Zequals(Ljava/lang/Object;)ZhashCode()IgetName()Ljava/lan
g/SecurityManager;getActionsnewPermissionCollection&()Ljava/security/PermissionCollection;toString;gnu/java/lang/CPStringBuilde
#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>

extern "Java"
{

namespace java
{

namespace security
{

namespace acl
{

class Permission;

}
}
}

}

}

}

}

}

class java::security::acl::Permission : public ::java::lang::Object
{

public:

    virtual jboolean equals<::java::lang::Object *> = 0;
    virtual ::java::lang::String * toString() = 0;
    static ::java::lang::Class class$;

};
This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

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} __attribute__((java_interface));

#ifndef __java_security_acl_Permission__
This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

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The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazil@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(aggc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to

} __attribute__((java_interface));
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility.  (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
underscores, we are using prefix `.s to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE, SIZE) \
fprintf (FILE, "t.space " HOST_WIDE_INT PRINT UNSIGNED "n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \
( fputs (".comm ", (FILE)),
 assemble_name ((FILE), (NAME)),

fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line 
   to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \ 
  ( fputs (".lcomm ", (FILE)),\ 
  assemble_name ((FILE), (NAME)),\ 
  fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \ 
  ( fputs (".lcomm ", (FILE)),\ 
  assemble_name ((FILE), (NAME)),\ 
  fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line 
   that says to advance the location counter 
   to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)\ 
  if ((LOG)!=0) fprintf ((FILE), 	".align %d\n", (LOG))

/* This is how to store into the string BUF 
the symbol_ref name of an internal numbered label where 
PREFIX is the class of label and NUM is the number within the class. 
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\ 
  sprintf ((BUF), 	"*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX 
"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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/**
 * This interface provides information about a permission that can be granted. Note that this is <em>not</em> the same as the class <code>java.security.Permission</code>.
 */

package java.security.acl;

/**
 * This method tests whether or not a specified <code>Permission</code> (passed as an <code>Object</code>) is the same as this permission.
 */

*/
boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 *
 * @return A <code>String</code> representing this permission.
 */
String toString();

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#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
namespace gnu
{
namespace javax
{
namespace sound
{
class AudioSecurityManager$Permission;
}
}
}
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{

AudioSecurityManager$Permission(::java::lang::String *, jint);
public:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
private:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
public:
static ::java::lang::Class class$;
};
1.498 google-golang-org-grpc 1.36.0
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Gocheck - A rich testing framework for Go

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.509 golang-org-x-sys 0.0.0-20200622214017-ed371f2e16b4

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1.516 wamerican 2018.04.16 1

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It was downloaded from:
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in addition to providing the 12Dicts package and being a major
contributor to the ENABLE word list, given me an incredible amount of
feedback and created a number of special lists (those found in the
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The 10 level includes the 1000 most common English words (according to
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1.527 python3-idna 2.5-5.el8
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Metadata-Version: 1.1
Name: idna
Version: 2.5
Summary: Internationalized Domain Names in Applications (IDNA)
Home-page: https://github.com/kjd/idna
Author: Kim Davies
Support for the Internationalised Domain Names in Applications (IDNA) protocol as specified in `RFC 5891 <http://tools.ietf.org/html/rfc5891>`_. This is the latest version of the protocol and is sometimes referred to as “IDNA 2008”.

This library also provides support for Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_.

This acts as a suitable replacement for the “encodings.idna” module that comes with the Python standard library, but only supports the old, deprecated IDNA specification (`RFC 3490 <http://tools.ietf.org/html/rfc3490>`_).

Basic functions are simply executed:

```
.. code-block:: pycon

    # Python 3
    >>> import idna
    >>> idna.encode('.
    b'xn--eckwd4c7c.xn--zckzah'
    >>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
    
    # Python 2
    >>> import idna
    >>> idna.encode(u'.
    'xn--eckwd4c7c.xn--zckzah'
    >>> print idna.decode('xn--eckwd4c7c.xn--zckzah')
    
Packages
--------

The latest tagged release version is published in the PyPI repository:

```
.. image:: https://badge.fury.io/py/idna.svg
   :target: http://badge.fury.io/py/idna

Installation
------------

To install this library, you can use pip:
.. code-block:: bash

    $ pip install idna

Alternatively, you can install the package using the bundled setup script:

.. code-block:: bash

    $ python setup.py install

This library works with Python 2.6 or later, and Python 3.3 or later.

Usage
-----

For typical usage, the ``encode`` and ``decode`` functions will take a domain name argument and perform a conversion to A-labels or U-labels respectively.

.. code-block:: pycon

    # Python 3
    >>> import idna
    >>> idna.encode('`
    b'xn--eckwd4c7c.xn--zckzah'
    >>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))

You may use the codec encoding and decoding methods using the ``idna.codec`` module:

.. code-block:: pycon

    # Python 2
    >>> import idna.codec
    >>> print u'.'.encode('idna')

    xn--80ahd1agd.xn--80akhbyknj4f
    >>> print 'xn--80ahd1agd.xn--80akhbyknj4f'.decode('idna')

Conversions can be applied at a per-label basis using the ``ulabel`` or ``alabel`` functions if necessary:

.. code-block:: pycon

    # Python 2
    >>> idna.alabel(u'')
Compatibility Mapping (UTS #46)

As described in `RFC 5895 <http://tools.ietf.org/html/rfc5895>`_, the IDNA specification no longer normalizes input from different potential ways a user may input a domain name. This functionality, known as a “mapping”, is now considered by the specification to be a local user-interface issue distinct from IDNA conversion functionality.

This library provides one such mapping, that was developed by the Unicode Consortium. Known as `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_, it provides for both a regular mapping for typical applications, as well as a transitional mapping to help migrate from older IDNA 2003 applications.

For example, “Königsgäßchen” is not a permissible label as *LATIN CAPITAL LETTER K* is not allowed (nor are capital letters in general). UTS 46 will convert this into lower case prior to applying the IDNA conversion.

```python
# Python 3
>>> import idna
>>> idna.encode(u'Königsgäßchen')
... idna.core.InvalidCodepoint: Codepoint U+004B at position 1 of 'Königsgäßchen' not allowed
>>> idna.encode('Königsgäßchen', uts46=True)
b'xn--knigsgchen-b4a3dun'
>>> print(idna.decode('xn--knigsgchen-b4a3dun'))
königsgäßchen
```

Transitional processing provides conversions to help transition from the older 2003 standard to the current standard. For example, in the original IDNA specification, the *LATIN SMALL LETTER SHARP S* (ß) was converted into two *LATIN SMALL LETTER S* (ss), whereas in the current IDNA specification this conversion is not performed.

```python
# Python 2
>>> idna.encode(u'Königsgäßchen', uts46=True, transitional=True)
'xn--knigsgsschen-lcb0w'
```

Implementors should use transitional processing with caution, only in rare cases where conversion from legacy labels to current labels must be performed (i.e. IDNA implementations that pre-date 2008). For typical applications that just need to convert labels, transitional processing is unlikely to be
beneficial and could produce unexpected incompatible results.

``encodings.idna`` Compatibility
++++++++++++++++++++++++++++++++

Function calls from the Python built-in ``encodings.idna`` module are mapped to their IDNA 2008 equivalents using the ``idna.compat`` module. Simply substitute the ``import`` clause in your code to refer to the new module name.

Exceptions
---------

All errors raised during the conversion following the specification should raise an exception derived from the ``idna.IDNAError`` base class.

More specific exceptions that may be generated as ``idna.IDNABidiError`` when the error reflects an illegal combination of left-to-right and right-to-left characters in a label; ``idna.InvalidCodepoint`` when a specific codepoint is an illegal character in an IDN label (i.e. INVALID); and ``idna.InvalidCodepointContext`` when the codepoint is illegal based on its positional context (i.e. it is CONTEXTO or CONTEXTJ but the contextual requirements are not satisfied.)

Testing
-------

The library has a test suite based on each rule of the IDNA specification, as well as tests that are provided as part of the Unicode Technical Standard 46, 'Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>'.

The tests are run automatically on each commit at Travis CI:

.. image:: https://travis-ci.org/kjd/idna.svg?branch=master
   :target: https://travis-ci.org/kjd/idna

Platform: UNKNOWN
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* /opt/cola/permits/1175311169_1625782957.11/0/python-idna-2.5-5.el8-1.src.rpm-cosi-expand-archive-LNgVrHYW/idna-2.5.tar.gz-cosi-expand-archive-EaNg03py/idna-2.5/PKG-INFO
* /opt/cola/permits/1175311169_1625782957.11/0/python-idna-2.5-5.el8-1.src.rpm-cosi-expand-archive-LNgVrHYW/idna-2.5.tar.gz-cosi-expand-archive-EaNg03py/idna-2.5/idna.egg-info/PKG-INFO

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```python
import io, sys
from setuptools import setup

version = "2.5"

def main():
    python_version = sys.version_info[:2]
    if python_version < (2,6):
        raise SystemExit("Sorry, Python 2.6 or newer required")

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': version,
        'description': 'Internationalized Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
            'Operating System :: OS Independent',
            'Programming Language :: Python',
            'Programming Language :: Python :: 2.6',
            'Programming Language :: Python :: 2.7',
            'Programming Language :: Python :: 3',
        ]
    }
```

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.
"Programming Language :: Python :: 3.3",
"Programming Language :: Python :: 3.4",
"Programming Language :: Python :: 3.5",
"Programming Language :: Python :: 3.6",
"Topic :: Internet :: Name Service (DNS)",
"Topic :: Software Development :: Libraries :: Python Modules",
"Topic :: Utilities",
],
'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1175311169_1625782957.11/0/python-idna-2.5-5.el8-1.src.rpm-cosi-expand-archive-LNgVrHYW/idna-2.5.tar.gz-cosi-expand-archive-EaNg03py/idna-2.5/setup.py

1.528 badger 1.5.3

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1.529 golang-org-x-net 0.0.0-20191209160850-c0dbc17a3553

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1.530 zlib1g 1:1.2.8.dfsg-5

1.531 mime 1.6.0

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---
abstract: 'Perl interface to the MD-5 algorithm'
author:
- 'Gisle Aas <gisle@activestate.com>'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.0401, CPAN::Meta::Converter version 2.150001'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
nname: Digest-MD5
no_index:
directory:
  - t
  - inc
requires:
  Digest::base: '1.00'
  XSLoader: '0'
  perl: '5.006'
resources:
  repository: https://github.com/gisle/digest-md5
version: '2.55'

Found in path(s):
* /opt/cola/permits/1185063345_1627670734.95/0/perl-Digest-MD5-2.55-396.el8-1.src.rpm-cosi-expand-archive-mtlbeUEO/Digest-MD5-2.55.tar.gz-cosi-expand-archive-Hh09397v/Digest-MD5-2.55/META.yml

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The Digest::MD5 module allows you to use the RSA Data Security Inc. MD5 Message Digest algorithm from within Perl programs. The algorithm takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input. MD5 is described in RFC 1321.

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* /opt/cola/permits/1185063345_1627670734.95/0/perl-Digest-MD5-2.55-396.el8-1.src.rpm-cosi-expand-archive-mlt1beUEO/Digest-MD5-2.55.tar.gz-cosi-expand-archive-Hh09397v/Digest-MD5-2.55/README

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=head1 NAME

Digest::MD5 - Perl interface to the MD5 Algorithm

=head1 SYNOPSIS

# Functional style
use Digest::MD5 qw(md5 md5_hex md5_base64);

$digest = md5($data);
$digest = md5_hex($data);
$digest = md5_base64($data);

# OO style
use Digest::MD5;

$ctx = Digest::MD5->new;

$ctx->add($data);
$ctx->addfile($file_handle);

$digest = $ctx->digest;
$digest = $ctx->hexdigest;
$digest = $ctx->b64digest;

=head1 DESCRIPTION

The C<Digest::MD5> module allows you to use the RSA Data Security
Inc. MD5 Message Digest algorithm from within Perl programs. The algorithm takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.

Note that the MD5 algorithm is not as strong as it used to be. It has since 2005 been easy to generate different messages that produce the same MD5 digest. It still seems hard to generate messages that produce a given digest, but it is probably wise to move to stronger algorithms for applications that depend on the digest to uniquely identify a message.

The C<Digest::MD5> module provides a procedural interface for simple use, as well as an object-oriented interface that can handle messages of arbitrary length and which can read files directly.

=head1 FUNCTIONS

The following functions are provided by the C<Digest::MD5> module. None of these functions are exported by default.

=item md5($data,...)

This function will concatenate all arguments, calculate the MD5 digest of this "message", and return it in binary form. The returned string will be 16 bytes long.

The result of md5("a", "b", "c") will be exactly the same as the result of md5("abc").

=item md5_hex($data,...)

Same as md5(), but will return the digest in hexadecimal form. The length of the returned string will be 32 and it will only contain characters from this set: '0'..'9' and 'a'..'f'.

=item md5_base64($data,...)

Same as md5(), but will return the digest as a base64 encoded string. The length of the returned string will be 22 and it will only contain characters from this set: 'A'..'Z', 'a'..'z', '0'..'9', '+' and '/'.

Note that the base64 encoded string returned is not padded to be a multiple of 4 bytes long. If you want interoperability with other base64 encoded md5 digests you might want to append the redundant string "==" to the result.
METHODS

The object oriented interface to C<Digest::MD5> is described in this section. After a C<Digest::MD5> object has been created, you will add data to it and finally ask for the digest in a suitable format. A single object can be used to calculate multiple digests.

The following methods are provided:

- $md5 = Digest::MD5->new

  The constructor returns a new C<Digest::MD5> object which encapsulate the state of the MD5 message-digest algorithm.

  If called as an instance method (i.e. $md5->new) it will just reset the state the object to the state of a newly created object. No new object is created in this case.

- $md5->reset

  This is just an alias for $md5->new.

- $md5->clone

  This a copy of the $md5 object. It is useful when you do not want to destroy the digests state, but need an intermediate value of the digest, e.g. when calculating digests iteratively on a continuous data stream. Example:

  ```perl
  my $md5 = Digest::MD5->new;
  while (<>) {
    $md5->add($_);
    print "Line ": $_, $md5->hexdigest, "\n";
  }
  
  $md5->add($data,...)
  ```

  The $data provided as argument are appended to the message we calculate the digest for. The return value is the $md5 object itself.

  All these lines will have the same effect on the state of the $md5 object:
$md5->add("a"); $md5->add("b"); $md5->add("c");
$md5->add("a")->add("b") -> add("c");
$md5->add("a", "b", "c");
$md5->add("abc");

=item $md5->addfile($io_handle)

The $io_handle will be read until EOF and its content appended to the message we calculate the digest for. The return value is the $md5 object itself.

The addfile() method will croak() if it fails reading data for some reason. If it croaks it is unpredictable what the state of the $md5 object will be in. The addfile() method might have been able to read the file partially before it failed. It is probably wise to discard or reset the $md5 object if this occurs.

In most cases you want to make sure that the $io_handle is in C<binmode> before you pass it as argument to the addfile() method.

=item $md5->add_bits($data, $nbits)

=item $md5->add_bits($bitstring)

Since the MD5 algorithm is byte oriented you might only add bits as multiples of 8, so you probably want to just use add() instead. The add_bits() method is provided for compatibility with other digest implementations. See L<Digest> for description of the arguments that add_bits() take.

=item $md5->digest

Return the binary digest for the message. The returned string will be 16 bytes long.

Note that the C<digest> operation is effectively a destructive, read-once operation. Once it has been performed, the C<Digest::MD5> object is automatically C<reset> and can be used to calculate another digest value. Call $md5->clone->digest if you want to calculate the digest without resetting the digest state.

=item $md5->hexdigest

Same as $md5->digest, but will return the digest in hexadecimal form. The length of the returned string will be 32 and it will only contain characters from this set: '0'..'9' and 'a'..'f'.

=item $md5->b64digest
Same as $md5->digest, but will return the digest as a base64 encoded string. The length of the returned string will be 22 and it will only contain characters from this set: 'A'..'Z', 'a'..'z', '0'..'9', '+' and '/'.

The base64 encoded string returned is not padded to be a multiple of 4 bytes long. If you want interoperability with other base64 encoded md5 digests you might want to append the string "==" to the result.

=item @ctx = $md5->context

=item $md5->context(@ctx)

Saves or restores the internal state. When called with no arguments, returns a 3-element list: number of blocks processed, a 16-byte internal state buffer, then up to 63 bytes of unprocessed data. When passed those same arguments, restores the state. This is only useful for specialised operations.

=head1 EXAMPLES

The simplest way to use this library is to import the md5_hex() function (or one of its cousins):

    use Digest::MD5 qw(md5_hex);
    print "Digest is ", md5_hex("foobarbaz"), "\n";

The above example would print out the message:

    Digest is 6df23dc03f9b54cc38a0fc1483df6e21

The same checksum can also be calculated in OO style:

    use Digest::MD5;

    $md5 = Digest::MD5->new;
    $md5->add('foo', 'bar');
    $md5->add('baz');
    $digest = $md5->hexdigest;

    print "Digest is $digest\n";

    With OO style, you can break the message arbitrarily. This means that we
are no longer limited to have space for the whole message in memory, i.e.
we can handle messages of any size.

This is useful when calculating checksum for files:

```perl
use Digest::MD5;

my $filename = shift || "/etc/passwd";
open (my $fh, '<', $filename) or die "Can't open '$filename': $!";
binmode($fh);

$md5 = Digest::MD5->new;
while (<$fh>) {
    $md5->add($_);
}
close($fh);
print $md5->b64digest, " $filename\n";
```

Or we can use the addfile method for more efficient reading of
the file:

```perl
use Digest::MD5;

my $filename = shift || "/etc/passwd";
open (my $fh, '<', $filename) or die "Can't open '$filename': $!";
binmode($fh);

print Digest::MD5->new->addfile($fh)->hexdigest, " $filename\n";
```

Since the MD5 algorithm is only defined for strings of bytes, it can not be
used on strings that contains chars with ordinal number above 255 (Unicode
strings). The MD5 functions and methods will croak if you try to feed them
such input data:

```perl
use Digest::MD5 qw(md5_hex);

my $str = "abc\x{300}";
print md5_hex($str), "\n"; # croaks
# Wide character in subroutine entry
```

What you can do is calculate the MD5 checksum of the UTF-8
representation of such strings. This is achieved by filtering the
string through encode_utf8() function:

```perl
use Digest::MD5 qw(md5_hex);
use Encode qw(encode_utf8);

my $str = "abc\x{300}";
```
print md5_hex(encode_utf8($str)), "\n";
# 8c2d46911f3f5a326455f0ed7a8ed3b3

=head1 SEE ALSO

L<Digest>,
L<Digest::MD2>,
L<Digest::SHA>,
L<Digest::HMAC>

L<md5sum(1)>

RFC 1321


The paper "How to Break MD5 and Other Hash Functions" by Xiaoyun Wang and Hongbo Yu.

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=over 4

=item

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AUTHORS

The original C<MD5> interface was written by Neil Winton (N.Winton@axion.bt.co.uk).

The C<Digest::MD5> module is written by Gisle Aas (gisle@ActiveState.com).

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Request for Comments: 1321 MIT Laboratory for Computer Science
and RSA Data Security, Inc.
April 1992

The MD5 Message-Digest Algorithm

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Acknowledgements

We would like to thank Don Coppersmith, Burt Kaliski, Ralph Merkle, David Chaum, and Noam Nisan for numerous helpful comments and suggestions.
This document describes the MD5 message-digest algorithm. The algorithm takes as input a message of arbitrary length and produces as output a 128-bit “fingerprint” or “message digest” of the input. It is conjectured that it is computationally infeasible to produce two messages having the same message digest, or to produce any message having a given prespecified target message digest. The MD5 algorithm is intended for digital signature applications, where a large file must be "compressed" in a secure manner before being encrypted with a private (secret) key under a public-key cryptosystem such as RSA.

The MD5 algorithm is designed to be quite fast on 32-bit machines. In addition, the MD5 algorithm does not require any large substitution tables; the algorithm can be coded quite compactly.

The MD5 algorithm is an extension of the MD4 message-digest algorithm [1,2]. MD5 is slightly slower than MD4, but is more "conservative" in design. MD5 was designed because it was felt that MD4 was perhaps being adopted for use more quickly than justified by the existing critical review; because MD4 was designed to be exceptionally fast, it is "at the edge" in terms of risking successful cryptanalytic attack. MD5 backs off a bit, giving up a little in speed for a much
greater likelihood of ultimate security. It incorporates some suggestions made by various reviewers, and contains additional optimizations. The MD5 algorithm is being placed in the public domain for review and possible adoption as a standard.

For OSI-based applications, MD5's object identifier is

md5 OBJECT IDENTIFIER ::=  
    iso(1) member-body(2) US(840) rsadsi(113549) digestAlgorithm(2) 5

In the X.509 type AlgorithmIdentifier [3], the parameters for MD5 should have type NULL.

2. Terminology and Notation

In this document a "word" is a 32-bit quantity and a "byte" is an eight-bit quantity. A sequence of bits can be interpreted in a natural manner as a sequence of bytes, where each consecutive group of eight bits is interpreted as a byte with the high-order (most significant) bit of each byte listed first. Similarly, a sequence of bytes can be interpreted as a sequence of 32-bit words, where each consecutive group of four bytes is interpreted as a word with the low-order (least significant) byte given first.

Let $x_i$ denote "x sub i". If the subscript is an expression, we surround it in braces, as in $x_{i+1}$. Similarly, we use ^ for superscripts (exponentiation), so that $x^i$ denotes x to the i-th power.

Let the symbol "+" denote addition of words (i.e., modulo-$2^{32}$ addition). Let $X <<< s$ denote the 32-bit value obtained by circularly shifting (rotating) X left by s bit positions. Let not(X) denote the bit-wise complement of X, and let $X v Y$ denote the bit-wise OR of X and Y. Let $X xor Y$ denote the bit-wise XOR of X and Y, and let $XY$ denote the bit-wise AND of X and Y.

3. MD5 Algorithm Description

We begin by supposing that we have a b-bit message as input, and that
we wish to find its message digest. Here \( b \) is an arbitrary nonnegative integer; \( b \) may be zero, it need not be a multiple of eight, and it may be arbitrarily large. We imagine the bits of the message written down as follows:

\[
m_0 \ m_1 \ldots \ m_{(b-1)}
\]

The following five steps are performed to compute the message digest of the message.

3.1 Step 1. Append Padding Bits

The message is "padded" (extended) so that its length (in bits) is congruent to 448, modulo 512. That is, the message is extended so that it is just 64 bits shy of being a multiple of 512 bits long. Padding is always performed, even if the length of the message is already congruent to 448, modulo 512.

Padding is performed as follows: a single "1" bit is appended to the message, and then "0" bits are appended so that the length in bits of the padded message becomes congruent to 448, modulo 512. In all, at least one bit and at most 512 bits are appended.

3.2 Step 2. Append Length

A 64-bit representation of \( b \) (the length of the message before the padding bits were added) is appended to the result of the previous step. In the unlikely event that \( b \) is greater than \( 2^{64} \), then only the low-order 64 bits of \( b \) are used. (These bits are appended as two 32-bit words and appended low-order word first in accordance with the previous conventions.)

At this point the resulting message (after padding with bits and with \( b \) has a length that is an exact multiple of 512 bits. Equivalently, this message has a length that is an exact multiple of 16 (32-bit) words. Let \( M[0 \ldots N-1] \) denote the words of the resulting message, where \( N \) is a multiple of 16.

3.3 Step 3. Initialize MD Buffer

A four-word buffer \((A,B,C,D)\) is used to compute the message digest. Here each of \( A, B, C, D \) is a 32-bit register. These registers are initialized to the following values in hexadecimal, low-order bytes first):
word A: 01 23 45 67
word B: 89 ab cd ef
word C: fe dc ba 98
word D: 76 54 32 10

3.4 Step 4. Process Message in 16-Word Blocks

We first define four auxiliary functions that each take as input three 32-bit words and produce as output one 32-bit word.

\[
\begin{align*}
F(X,Y,Z) &= XY \lor \neg(X) \; Z \\
G(X,Y,Z) &= XZ \lor Y \lor \neg(Z) \\
H(X,Y,Z) &= X \oplus Y \oplus Z \\
I(X,Y,Z) &= Y \oplus (X \lor \neg(Z))
\end{align*}
\]

In each bit position F acts as a conditional: if X then Y else Z. The function F could have been defined using + instead of \(\lor\) since XY and \(\neg(X)Z\) will never have 1's in the same bit position.) It is interesting to note that if the bits of X, Y, and Z are independent and unbiased, the each bit of F(X,Y,Z) will be independent and unbiased.

The functions G, H, and I are similar to the function F, in that they act in "bitwise parallel" to produce their output from the bits of X, Y, and Z, in such a manner that if the corresponding bits of X, Y, and Z are independent and unbiased, then each bit of G(X,Y,Z), H(X,Y,Z), and I(X,Y,Z) will be independent and unbiased. Note that the function H is the bit-wise "xor" or "parity" function of its inputs.

This step uses a 64-element table T[1 ... 64] constructed from the sine function. Let T[i] denote the i-th element of the table, which is equal to the integer part of 4294967296 times abs(sin(i)), where i is in radians. The elements of the table are given in the appendix.

Do the following:

/* Process each 16-word block. */
For i = 0 to N/16-1 do

/* Copy block i into X. */
For j = 0 to 15 do
    Set X[j] to M[i*16+j].
end /* of loop on j */

/* Save A as AA, B as BB, C as CC, and D as DD. */
AA = A
BB = B

CC = C
DD = D

/* Round 1. */
/* Let [abcd k s i] denote the operation */
/* a = b + ((a + F(b,c,d) + X[k] + T[i]) <<< s). */
/* Do the following 16 operations. */
[ABCD  0  7  1]  [DABC  1 12  2]  [CDAB  2 17  3]  [BCDA  3 22  4]
[ABCD  4  7  5]  [DABC  5 12  6]  [CDAB  6 17  7]  [BCDA  7 22  8]
[ABCD  8  7  9]  [DABC  9 12 10]  [CDAB 10 17 11]  [BCDA 11 22 12]
[ABCD 12  7 13]  [DABC 13 12 14]  [CDAB 14 17 15]  [BCDA 15 22 16]

/* Round 2. */
/* Let [abcd k s i] denote the operation */
/* a = b + ((a + G(b,c,d) + X[k] + T[i]) <<< s). */
/* Do the following 16 operations. */
[ABCD  1  5 17]  [DABC  6  9 18]  [CDAB 11 14 19]  [BCDA  0 20 20]
[ABCD  5  5 21]  [DABC 10  9 22]  [CDAB 15 14 23]  [BCDA  4 20 24]
[ABCD  9  5 25]  [DABC 14  9 26]  [CDAB  3 14 27]  [BCDA  8 20 28]
[ABCD 13  5 29]  [DABC  0 11 30]  [CDAB  7 14 31]  [BCDA 12 20 32]

/* Round 3. */
/* Let [abcd k s t] denote the operation */
/* a = b + ((a + H(b,c,d) + X[k] + T[i]) <<< s). */
/* Do the following 16 operations. */
[ABCD  5  4 33]  [DABC  8 11 34]  [CDAB 11 16 35]  [BCDA 14 23 36]
[ABCD  1  4 37]  [DABC  4 11 38]  [CDAB  7 16 39]  [BCDA 10 23 40]
[ABCD 13  4 41]  [DABC  0 11 42]  [CDAB  3 16 43]  [BCDA  6 23 44]
[ABCD  9  4 45]  [DABC 12 11 46]  [CDAB 15 16 47]  [BCDA  2 23 48]

/* Round 4. */
/* Let [abcd k s t] denote the operation */
/* a = b + ((a + I(b,c,d) + X[k] + T[i]) <<< s). */
/* Do the following 16 operations. */
[ABCD  0  6 49]  [DABC  7 10 50]  [CDAB 14 15 51]  [BCDA  5 21 52]
Then perform the following additions. (That is increment each of the four registers by the value it had before this block was started.) */
A = A + AA
B = B + BB
C = C + CC
D = D + DD

end /* of loop on i */

3.5 Step 5. Output

The message digest produced as output is A, B, C, D. That is, we begin with the low-order byte of A, and end with the high-order byte of D.

This completes the description of MD5. A reference implementation in C is given in the appendix.

4. Summary

The MD5 message-digest algorithm is simple to implement, and provides a "fingerprint" or message digest of a message of arbitrary length. It is conjectured that the difficulty of coming up with two messages having the same message digest is on the order of 2^64 operations, and that the difficulty of coming up with any message having a given message digest is on the order of 2^128 operations. The MD5 algorithm has been carefully scrutinized for weaknesses. It is, however, a relatively new algorithm and further security analysis is of course justified, as is the case with any new proposal of this sort.

5. Differences Between MD4 and MD5

The following are the differences between MD4 and MD5:

1. A fourth round has been added.
2. Each step now has a unique additive constant.

3. The function g in round 2 was changed from \((XY \lor XZ \lor YZ)\) to \((XZ \lor Y \neg Z)\) to make g less symmetric.

4. Each step now adds in the result of the previous step. This promotes a faster "avalanche effect".

5. The order in which input words are accessed in rounds 2 and 3 is changed, to make these patterns less like each other.

6. The shift amounts in each round have been approximately optimized, to yield a faster "avalanche effect." The shifts in different rounds are distinct.

Rivest

RFC 1321 MD5 Message-Digest Algorithm April 1992

References


APPENDIX A - Reference Implementation

This appendix contains the following files taken from RSAREF: A Cryptographic Toolkit for Privacy-Enhanced Mail:

- global.h -- global header file
Open Source Used In Intersight Kubernetes Service 1.0.15

md5.h -- header file for MD5

md5c.c -- source code for MD5

For more information on RSAREF, send email to <rsaref@rsa.com>.

The appendix also includes the following file:

mddriver.c -- test driver for MD2, MD4 and MD5

The driver compiles for MD5 by default but can compile for MD2 or MD4 if the symbol MD is defined on the C compiler command line as 2 or 4.

The implementation is portable and should work on many different platforms. However, it is not difficult to optimize the implementation on particular platforms, an exercise left to the reader. For example, on "little-endian" platforms where the lowest-addressed byte in a 32-bit word is the least significant and there are no alignment restrictions, the call to Decode in MD5Transform can be replaced with a typecast.

A.1 global.h

/* GLOBAL.H - RSAREF types and constants */

/* PROTOTYPES should be set to one if and only if the compiler supports function argument prototyping. The following makes PROTOTYPES default to 0 if it has not already been defined with C compiler flags. */

ifndef PROTOTYPES
# define PROTOTYPES 0
endif

/* POINTER defines a generic pointer type */
typedef unsigned char *POINTER;

/* UINT2 defines a two byte word */
typedef unsigned short int UINT2;
/* UINT4 defines a four byte word */
typedef unsigned long int UINT4;

/* PROTO_LIST is defined depending on how PROTOTYPES is defined above. 
If using PROTOTYPES, then PROTO_LIST returns the list, otherwise it 
returns an empty list. */
#endif
#define PROTO_LIST(list) list
#else
#define PROTO_LIST(list) ()
#endif

A.2 md5.h

/* MD5.H - header file for MD5C.C */
/* */

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Rivest          [Page 8]

RFC 1321 MD5 Message-Digest Algorithm April 1992

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documentation and/or software.
/*
typedef struct {
    UINT4 state[4];    /* state (ABCD) */
    UINT4 count[2];    /* number of bits, modulo 2^64 (lsb first) */
    unsigned char buffer[64];    /* input buffer */
} MD5_CTX;

void MD5Init PROTO_LIST ((MD5_CTX *));
void MD5Update PROTO_LIST ((MD5_CTX *, unsigned char *, unsigned int));
void MD5Final PROTO_LIST ((unsigned char [16], MD5_CTX *));

A.3 md5c.c

#include "global.h"
#include "md5.h"

/* Constants for MD5Transform routine. */
#define S11 7
#define S12 12
#define S13 17
#define S14 22
#define S21 5
#define S22 9
#define S23 14
#define S24 20
#define S31 4
#define S32 11
#define S33 16
#define S34 23
#define S41 6
#define S42 10
#define S43 15
#define S44 21

static void MD5Transform PROTO_LIST ((UINT4 [4], unsigned char [64]));
static void Encode PROTO_LIST
((unsigned char *, UINT4 *, unsigned int));
static void Decode PROTO_LIST
((UINT4 *, unsigned char *, unsigned int));
static void MD5_memcpy PROTO_LIST ((POINTER, POINTER, unsigned int));
static void MD5_memset PROTO_LIST ((POINTER, int, unsigned int));

static unsigned char PADDING[64] = {
0x80, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
};

/* F, G, H and I are basic MD5 functions. */
#define F(x, y, z) (((x) & (y)) | ((~x) & (z)))
#define G(x, y, z) (((x) & (z)) | ((y) & (~z)))
#define H(x, y, z) ((x) ^ (y) ^ (z))
#define I(x, y, z) ((y) ^ ((x) | (~z)))

/* ROTATE_LEFT rotates x left n bits. */
#define ROTATE_LEFT(x, n) (((x) << (n)) | ((x) >> (32-(n))))

/* FF, GG, HH, and II transformations for rounds 1, 2, 3, and 4. */
Rotation is separate from addition to prevent recomputation.

/*
#define FF(a, b, c, d, x, s, ac) { 
    (a) += F ((b), (c), (d)) + (x) + (UINT4)(ac); 
    (a) = ROTATE_LEFT ((a), (s)); 
}

Rivest

RFC 1321              MD5 Message-Digest Algorithm            April 1992

(a) += (b);
}
#define GG(a, b, c, d, x, s, ac) { 
    (a) += G ((b), (c), (d)) + (x) + (UINT4)(ac); 
    (a) = ROTATE_LEFT ((a), (s)); 
    (a) += (b); 
}
#define HH(a, b, c, d, x, s, ac) { 
    (a) += H ((b), (c), (d)) + (x) + (UINT4)(ac); 
    (a) = ROTATE_LEFT ((a), (s)); 
    (a) += (b); 
}
#define II(a, b, c, d, x, s, ac) { 
    (a) += I ((b), (c), (d)) + (x) + (UINT4)(ac); 
    (a) = ROTATE_LEFT ((a), (s)); 
    (a) += (b); 
}

/* MD5 initialization. Begins an MD5 operation, writing a new context.
*/
void MD5Init (context)
MD5_CTX *context; /* context */
{
    context->count[0] = context->count[1] = 0;
    /* Load magic initialization constants.
    */
    context->state[0] = 0x67452301;
    context->state[1] = 0xefcdab89;
    context->state[2] = 0x98badcfe;
    context->state[3] = 0x10325476;
}

/* MD5 block update operation. Continues an MD5 message-digest
operation, processing another message block, and updating the
context.
void MD5Update (context, input, inputLen)
MD5_CTX *context; /* context */
unsigned char *input; /* input block */
unsigned int inputLen; /* length of input block */
{
    unsigned int i, index, partLen;

    /* Compute number of bytes mod 64 */
    index = (unsigned int)((context->count[0] >> 3) & 0x3F);

    /* Update number of bits */
    if ((context->count[0] += ((UINT4)inputLen << 3)) < ((UINT4)inputLen << 3))
        context->count[1]++;  
    context->count[1] += ((UINT4)inputLen >> 29);
    partLen = 64 - index;

    /* Transform as many times as possible. */
    if (inputLen >= partLen) {
        MD5_memcpy((POINTER)&context->buffer[index], (POINTER)input, partLen);
        MD5Transform (context->state, context->buffer);
        for (i = partLen; i + 63 < inputLen; i += 64)
            MD5Transform (context->state, &input[i]);
        index = 0;
    } else
        i = 0;

    /* Buffer remaining input */
    MD5_memcpy((POINTER)&context->buffer[index], (POINTER)&input[i], inputLen-i);
}
/* MD5 finalization. Ends an MD5 message-digest operation, writing the message digest and zeroizing the context. */

void MD5Final (digest, context)
unsigned char digest[16]; /* message digest */
MD5_CTX *context; /* context */
{
unsigned char bits[8];
unsigned int index, padLen;

/* Save number of bits */
Encode (bits, context->count, 8);

/* Pad out to 56 mod 64. */
index = (unsigned int)((context->count[0] >> 3) & 0x3f);
padLen = (index < 56) ? (56 - index) : (120 - index);
MD5Update (context, PADDING, padLen);

/* Append length (before padding) */
MD5Update (context, bits, 8);

/* Store state in digest */
Encode (digest, context->state, 16);

/* Zeroize sensitive information. */
MD5_memset ((POINTER)context, 0, sizeof (*context));
}

/* MD5 basic transformation. Transforms state based on block. */
static void MD5Transform (state, block)
UINT4 state[4];
unsigned char block[64];
{
UINT4 a = state[0], b = state[1], c = state[2], d = state[3], x[16];

Decode (x, block, 64);

/* Round 1 */
FF (a, b, c, d, x[ 0], S11, 0xd76aa478); /* 1 */
FF (d, a, b, c, x[ 1], S12, 0xc8e7b756); /* 2 */
FF (c, d, a, b, x[ 2], S13, 0xa24070db); /* 3 */
FF (b, c, d, a, x[ 3], S14, 0xc1bdceee); /* 4 */
FF (a, b, c, d, x[ 4], S11, 0xf57c0faf); /* 5 */
FF (d, a, b, c, x[ 5], S12, 0x4787c62a); /* 6 */
FF (c, d, a, b, x[ 6], S13, 0xa8304613); /* 7 */
FF (b, c, d, a, x[ 7], S14, 0xfd469501); /* 8 */
FF (a, b, c, d, x[ 8], S11, 0x698098d8); /* 9 */
FF (d, a, b, c, x[ 9], S12, 0x8b44f7af); /* 10 */
FF (c, d, a, b, x[10], S13, 0xf4f5bb1); /* 11 */
FF (b, c, d, a, x[11], S14, 0x895cd7be); /* 12 */
FF (a, b, c, d, x[12], S11, 0x6b901122); /* 13 */
FF (d, a, b, c, x[13], S12, 0xfd987193); /* 14 */
FF (c, d, a, b, x[14], S13, 0xa679438e); /* 15 */
FF (b, c, d, a, x[15], S14, 0x49b40821); /* 16 */

/* Round 2 */
GG (a, b, c, d, x[ 1], S21, 0x6f61e2562); /* 17 */
GG (d, a, b, c, x[ 6], S22, 0xc040b340); /* 18 */
GG (c, d, a, b, x[11], S23, 0x265e5a51); /* 19 */
GG (b, c, d, a, x[ 0], S24, 0x9eb6c7aa); /* 20 */
GG (a, b, c, d, x[ 5], S21, 0x6d2f105d); /* 21 */
GG (d, a, b, c, x[10], S22, 0x2441453); /* 22 */
GG (c, d, a, b, x[15], S23, 0x898a1e681); /* 23 */
GG (b, c, d, a, x[ 4], S24, 0xe7d3fbc8); /* 24 */
GG (a, b, c, d, x[ 9], S21, 0x21e1cde6); /* 25 */
GG (d, a, b, c, x[14], S22, 0xc33707d6); /* 26 */
GG (c, d, a, b, x[ 3], S23, 0xf4d50d87); /* 27 */

/* Round 3 */
HH (a, b, c, d, x[ 5], S31, 0xfffa3942); /* 28 */
HH (d, a, b, c, x[ 8], S32, 0x8771f681); /* 29 */
HH (c, d, a, b, x[ 7], S33, 0x676f02d9); /* 30 */
HH (b, c, d, a, x[12], S24, 0x8d2a4c8a); /* 31 */

/* Round 3 */
HH (a, b, c, d, x[ 5], S31, 0xfffa3942); /* 33 */
HH (d, a, b, c, x[ 8], S32, 0x8771f681); /* 34 */
HH (c, d, a, b, x[11], S33, 0x6d9d6122); /* 35 */
HH (b, c, d, a, x[14], S34, 0xfde5380c); /* 36 */
HH (a, b, c, d, x[ 1], S31, 0xa4beea44); /* 37 */
HH (d, a, b, c, x[ 4], S32, 0x4bddecfa9); /* 38 */
HH (c, d, a, b, x[ 7], S33, 0xf6bb4b60); /* 39 */
HH (b, c, d, a, x[10], S34, 0xebebf7c0); /* 40 */
HH (a, b, c, d, x[13], S31, 0x289b7ec6); /* 41 */
HH (d, a, b, c, x[ 0], S32, 0xeaa127fa); /* 42 */
HH (c, d, a, b, x[ 3], S33, 0xd4ef3085); /* 43 */
HH (b, c, d, a, x[ 6], S34, 0x4881d05); /* 44 */
HH (a, b, c, d, x[ 9], S31, 0xd9d4d039); /* 45 */
HH (d, a, b, c, x[12], S32, 0xe66d99e5); /* 46 */
HH (c, d, a, b, x[15], S33, 0x1fa27cf8); /* 47 */
HH (b, c, d, a, x[ 2], S34, 0xc4ac5665); /* 48 */

/* Round 4 */
II (a, b, c, d, x[ 0], S41, 0xf4292244); /* 49 */
II (d, a, b, c, x[ 7], S42, 0x432aff97); /* 50 */
II (c, d, a, b, x[14], S43, 0x9ab9423a); /* 51 */
II (b, c, d, a, x[ 5], S44, 0xfc93a039); /* 52 */
II (a, b, c, d, x[12], S41, 0x655bb59c3); /* 53 */
II (d, a, b, c, x[ 3], S42, 0x8f0ccc92); /* 54 */
II (c, d, a, b, x[10], S43, 0x0ffeff7d); /* 55 */
II (b, c, d, a, x[ 1], S44, 0x85845dd1); /* 56 */
II (a, b, c, d, x[ 8], S41, 0x6f8a7e4f); /* 57 */
II (d, a, b, c, x[15], S42, 0x4fbec680); /* 58 */
II (c, d, a, b, x[ 6], S43, 0xa3014314); /* 59 */
II (b, c, d, a, x[13], S44, 0xa3014314); /* 60 */
II (a, b, c, d, x[ 4], S41, 0x7537e82); /* 61 */
II (d, a, b, c, x[11], S42, 0x3ad6235); /* 62 */
II (c, d, a, b, x[ 2], S43, 0x2ad7d2bb); /* 63 */
II (b, c, d, a, x[ 9], S44, 0xeb86d391); /* 64 */

state[0] += a;
state[1] += b;
state[2] += c;
state[3] += d;

/* Zeroize sensitive information.

Rivest [Page 14]

RFC 1321 MD5 Message-Digest Algorithm April 1992

*/
MD5_memset ((POINTER)x, 0, sizeof (x));
}
/* Encodes input (UINT4) into output (unsigned char). Assumes len is
a multiple of 4.
*/
static void Encode (output, input, len)
unsigned char *output;
UINT4 *input;
unsigned int len;
{
unsigned int i, j;

for (i = 0, j = 0; j < len; i++, j += 4) {
output[j] = (unsigned char)(input[i] & 0xff);
output[j+1] = (unsigned char)((input[i] >> 8) & 0xff);
output[j+2] = (unsigned char)((input[i] >> 16) & 0xff);
output[j+3] = (unsigned char)((input[i] >> 24) & 0xff);
}

/* Decodes input (unsigned char) into output (UINT4). Assumes len is
a multiple of 4.
*/
static void Decode (output, input, len)
UINT4 *output;
unsigned char *input;
unsigned int len;
{
unsigned int i, j;

for (i = 0, j = 0; j < len; i++, j += 4)
output[i] = (((UINT4)input[j]) | (((UINT4)input[j+1]) << 8) |
 (((UINT4)input[j+2]) << 16) | (((UINT4)input[j+3]) << 24));

/* Note: Replace "for loop" with standard memcpy if possible.
*/

static void MD5_memcpy (output, input, len)
POINTER output;
POINTER input;
unsigned int len;
{
unsigned int i;

for (i = 0; i < len; i++)
output[i] = input[i];
}

/* Note: Replace "for loop" with standard memset if possible. */
static void MD5_memset (output, value, len)
POINTER output;
int value;
unsigned int len;
{
    unsigned int i;

    for (i = 0; i < len; i++)
((char *)output)[i] = (char)value;
}

A.4 mddriver.c

/* MDDRIVER.C - test driver for MD2, MD4 and MD5 */
/*
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*/

/* The following makes MD default to MD5 if it has not already been
defined with C compiler flags. */
#ifndef MD
#define MD MD5
#endif
#include <stdio.h>
#include <time.h>
#include <string.h>
#include "global.h"
#if MD == 2
#include "md2.h"
#endif
#if MD == 4
#include "md4.h"
#endif
#if MD == 5
#include "md5.h"
#endif

/* Length of test block, number of test blocks. */
#define TEST_BLOCK_LEN 1000
#define TEST_BLOCK_COUNT 1000

static void MDString PROTO_LIST ((char *));
static void MDTimeTrial PROTO_LIST ((void));
static void MDTestSuite PROTO_LIST ((void));
static void MDFile PROTO_LIST ((char *));
static void MDFilter PROTO_LIST ((void));
static void MDPrint PROTO_LIST ((unsigned char [16]));

#if MD == 2
#define MD_CTX MD2_CTX
#define MDInit MD2Init
#define MDUpdate MD2Update
#define MDFinal MD2Final
#endif
#if MD == 4
#define MD_CTX MD4_CTX
#define MDInit MD4Init
#define MDUpdate MD4Update
#define MDFinal MD4Final
#endif
#if MD == 5
#define MD_CTX MD5_CTX
#define MDInit MD5Init
#define MDUpdate MD5Update
#define MDFinal MD5Final
#endif
#endif

/* Main driver.

Arguments (may be any combination):
-ssstring - digests string
-t       - runs time trial
-x       - runs test script
filename - digests file
(none)   - digests standard input
*/

int main (argc, argv)
int argc;
{

Rivest
RFC 1321    MD5 Message-Digest Algorithm  April 1992

char *argv[];
{
int i;

if (argc > 1)
for (i = 1; i < argc; i++)
  if (argv[i][0] == '-' && argv[i][1] == 's')
    MDString (argv[i] + 2);
else if (strcmp (argv[i], "-t") == 0)
    MDTimeTrial ();
else if (strcmp (argv[i], "-x") == 0)
    MDTestSuite ();
else
    MDFile (argv[i]);
else
    MDFilter ();

return (0);
}

/* Digests a string and prints the result.
*/
static void MDString (string)
char *string;
{
    MD_CTX context;
    unsigned char digest[16];
unsigned int len = strlen (string);

MDInit (&context);
MDUpdate (&context, string, len);
MDFinal (digest, &context);

printf ("MD%d (%" MD, string);
MDPrint (digest);
printf ("n");
}

/* Measures the time to digest TEST_BLOCK_COUNT TEST_BLOCK_LEN-byte blocks. */
static void MDTimeTrial ()
{
    MD_CTX context;
time_t endTime, startTime;
    unsigned char block[TEST_BLOCK_LEN], digest[16];
    unsigned int i;

    printf ("MD%d time trial. Digesting %d %d-byte blocks ...", MD,
            TEST_BLOCK_LEN, TEST_BLOCK_COUNT);

    /* Initialize block */
    for (i = 0; i < TEST_BLOCK_LEN; i++)
        block[i] = (unsigned char)(i & 0xff);

    /* Start timer */
    time (&startTime);

    /* Digest blocks */
    MDInit (&context);
    for (i = 0; i < TEST_BLOCK_COUNT; i++)
        MDUpdate (&context, block, TEST_BLOCK_LEN);
    MDFinal (digest, &context);

    /* Stop timer */
    time (&endTime);
printf (" done\n");
printf ("Digest = ");
MDPrint (digest);
printf ("\nTime = %ld seconds\n", (long)(endTime-startTime));
printf ("Speed = %ld bytes/second\n",
(long)TEST_BLOCK_LEN * (long)TEST_BLOCK_COUNT/(endTime-startTime));
}

/* Digests a reference suite of strings and prints the results. */
static void MDTestSuite ()
{
  printf ("MD%d test suite:\n", MD);

  MDString (""y);
  MDString ("a");
  MDString ("abc");
  MDString ("message digest");
  MDString ("abcdefghijklmnopqrstuvwxyz");
  MDString
  ("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789");
  MDString
  ("1234567890123456789012345678901234567890\'
1234567890123456789012345678901234567890");
}

/* Digests a file and prints the result. */

Rivest [Page 19]

RFC 1321 MD5 Message-Digest Algorithm April 1992

*/
static void MDFile (filename)
char *filename;
{
  FILE *file;
  MD_CTX context;
  int len;
  unsigned char buffer[1024], digest[16];

  if ((file = fopen (filename, "rb")) == NULL)
    printf ("%s can't be opened\n", filename);
else {
    MDInit (&context);
    while (len = fread (buffer, 1, 1024, file))
        MDUpdate (&context, buffer, len);
    MDFinal (digest, &context);

    fclose (file);

    printf ("MD%d (%s) = ", MD, filename);
    MDPrint (digest);
    printf ("\n");
}

/* Digests the standard input and prints the result. */
static void MDFilter ()
{
    MD_CTX context;
    int len;
    unsigned char buffer[16], digest[16];

    MDInit (&context);
    while (len = fread (buffer, 1, 16, stdin))
        MDUpdate (&context, buffer, len);
    MDFinal (digest, &context);

    MDPrint (digest);
    printf ("\n");
}

/* Prints a message digest in hexadecimal. */
static void MDPrint (digest)
unsigned char digest[16];
{


unsigned int i;

for (i = 0; i < 16; i++)
A.5 Test suite

The MD5 test suite (driver option "-x") should print the following results:

MD5 test suite:
MD5 ("") = d41d8cd98f00b204e9800998ecf8427e
MD5 ("a") = 0cc175b9c0f1b6a831c399e269772661
MD5 ("abc") = 900150983cd24fb0d6963f7d28e17f72
MD5 ("message digest") = f96b697d7cb7938d525a2f31aaaf161d0
MD5 ("abcdefghijklmnopqrstuvwxyz") = c3fcd3d76192e4007dfb496cca67e13b
MD5 ("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789") =
d174ab98d277d9f5a5611c2c9f419d9f
MD5 ("1234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890") =
57edf4a22be3c955ac49da2e2107b67a

Security Considerations

The level of security discussed in this memo is considered to be sufficient for implementing very high security hybrid digital-signature schemes based on MD5 and a public-key cryptosystem.

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Found in path(s):
* /opt/cola/permits/1185063345_1627670734.95/0/perl-Digest-MD5-2.55-396.el8-1.src.rpm-cosi-expand-archive-mlt1beUEO/Digest-MD5-2.55.tar.gz-cosi-expand-archive-Hh09397v/Digest-MD5-2.55/rfc1321.txt

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/*
 * This library is free software; you can redistribute it and/or
 * modify it under the same terms as Perl itself.
 *
 * Copyright 1998-2000 Gisle Aas.
 *
 * This code is derived from Neil Winton's MD5-1.7 Perl module, which in
 * turn is derived from the reference implementation in RFC 1321 which
 * comes with this message:
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 */

Found in path(s):
* /opt/cola/permits/1185063345_1627670734.95/0/perl-Digest-MD5-2.55-396.el8-1.src.rpm-cosi-expand-archive-mlt1beUEO/Digest-MD5-2.55.tar.gz-cosi-expand-archive-Hh09397v/Digest-MD5-2.55/MD5.xs
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Manoj Srivastava <srivasta@debian.org>
arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27

1.539 update-notifier 2.5.0

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1.540 types-tough-cookie 4.0.1

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1.541 libpython3-stdlib 3.6.7 1~18.04
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This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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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.

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py3compile, py3clean and debpython module:

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1.545 k8s-io-kube-openapi 0.0.0-20191107075043-30be4d16710a

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1.546 golang-org-x-oauth2 0.0.0-20191202225959-858c2ad4c8b6

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1.547 libaudit 1:2.8.2 1ubuntu1.1

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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.

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1.552 libjson-perl 4.02000-1

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1.555 apollo-server-errors 3.2.0

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1.556 cloud-guest-utils 0.30 0ubuntu5

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1.561 libxdmcp 1:1.1.2 3

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abstract: 'Establish an ISA relationship with base classes at compile time'
author:
- 'Max Maischein <corion@cpan.org>'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.34, CPAN::Meta::Converter version 2.150005'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: parent
no_index:
directory:
  - t
  - inc
requires:
  Test::More: '0.4'
perl: '5.006'
resources:
  repository: https://github.com/Corion/parent
version: '0.237'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'
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* /opt/cola/permits/1185063456_1627670821.56/0/perl-parent-0.237-1.el8-1.src.rpm-cosi-expand-archive-6vHI8k9H/parent-0.237.tar.gz-cosi-expand-archive-BHNIggn8/parent-0.237/META.yml
No license file was found, but licenses were detected in source scan.

=encoding utf8

=head1 NAME

parent - Establish an ISA relationship with base classes at compile time

=head1 SYNOPSIS

package Baz;
use parent qw(Foo Bar);

=head1 DESCRIPTION

Allows you to both load one or more modules, while setting up inheritance from those modules at the same time. Mostly similar in effect to

package Baz;
BEGIN {
  require Foo;
  require Bar;
  push @ISA, qw(Foo Bar);
}

By default, every base class needs to live in a file of its own.
If you want to have a subclass and its parent class in the same file, you can tell C<parent> not to load any modules by using the C<-norequire> switch:

package Foo;
sub exclaim { "I CAN HAS PERL" }

package DoesNotLoadFooBar;
use parent -norequire, 'Foo', 'Bar';
# will not go looking for Foo.pm or Bar.pm

This is equivalent to the following code:
package Foo;
sub exclaim { "I CAN HAS PERL" }

package DoesNotLoadFooBar;
push @DoesNotLoadFooBar::ISA, 'Foo', 'Bar';

This is also helpful for the case where a package lives within a differently named file:

package MyHash;
use Tie::Hash;
use parent -norequire, 'Tie::StdHash';

This is equivalent to the following code:

package MyHash;
require Tie::Hash;
push @ISA, 'Tie::StdHash';

If you want to load a subclass from a file that C<require> would not consider an eligible filename (that is, it does not end in either C<.pm> or C<.pmc>), use the following code:

package MySecondPlugin;
require './plugins/custom.plugin'; # contains Plugin::Custom
use parent -norequire, 'Plugin::Custom';

=head1 HISTORY

This module was forked from L<base> to remove the cruft that had accumulated in it.

=head1 CAVEATS

=head1 SEE ALSO

L<base>

=head1 AUTHORS AND CONTRIBUTORS

Rafaël Garcia-Suarez, Bart Lateur, Max Maischein, Anno Siegel, Michael Schwern

=head1 MAINTAINER

Max Maischein C< corion@cpan.org >

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Based on the idea of C<base.pm>, which was introduced with Perl 5.004.04.

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=cut

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1.563 libnsl 1.3.0-r0
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1.572 libpcre 2:8.39-3

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1.573 sed 4.4-1

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1.575 python 3.10.0

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1.576 shared-mime-info 1.9-3.el8

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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

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1.598 number-is-nan 1.0.1

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Igor Sysoev.

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.
The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(ace@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.issl.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../../../libs/mpl[MPL] sequences.
NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

1.600 linux-virtual 4.15.0.156.145

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The sources may be found at most Linux ftp sites, including ftp://ftp.kernel.org/pub/linux/kernel/

This package was then maintained by Sven Rudolph.

This package was maintained by Herbert Xu <herbert@gondor.apana.org.au> from March 1997 to May 2004.

This package was maintained by the Debian Kernel Team <debian-kernel@lists.debian.org>

This package was split off by Herbert Xu <herbert@gondor.apana.org.au> in September 2004.

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Local-Date: Fri, 06 Jun 2003 13:18:52 -0400
Date: Fri, 6 Jun 2003 10:18:52 -0700
From: Juan Gomez <juang@us.ibm.com>
To: Stephen Frost <sfrost@debian.org>
Stephen,

"There is no restriction on modifications and derived works" on the work I did for the openldap server as long as this is consistent with the openldap license. Please forward this email to Kurt so he does the appropriate changes to the files to reflect this.

Regards, Juan

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Local-Date: Thu, 05 Jun 2003 16:53:32 -0400
Date: Thu, 5 Jun 2003 16:53:32 -0400 (EDT)
From: Mark Adamson <adamson@andrew.cmu.edu>
To: Stephen Frost <sfrost@debian.org>
Subject: Re: Mark Adamson license in OpenLDAP source

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* To: Stephen Frost <sfrost@snowman.net>
* Subject: Re: OpenLDAP Licenseing issues
* From: "Kurt D. Zeilenga" <Kurt@OpenLDAP.org>
* Date: Wed, 28 May 2003 10:55:44 -0700
* Cc: Steve Langasek <vorlon@netexpress.net>, debian-legal@lists.debian.org, openldap-devel@OpenLDAP.org
* In-reply-to: <20030528162613.GB8524@ns.snowman.net>
* Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>
* Old-return-path: <Kurt@OpenLDAP.org>

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Regards, Kurt

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Jan 21, 2002

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */

public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:"

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {


return true;
}
public boolean inOverview() {
return true;
}
public boolean inPackage() {
return true;
}
public boolean inType() {
return true;
}
public boolean isInlineTag() {
return false;
}
public static void register(Map tagletMap) {
CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}
public String toString(Tag tag) {
return toString(new Tag[] { tag });
}
public String toString(Tag[] tags) {
if (tags.length == 0) {
return null;
}
else {
boolean haveValidTag = false;
for (int i = 0; i < tags.length && !haveValidTag; ++i) {
if (tags[i].text().length() > 0) {
haveValidTag = true;
}
}
if (haveValidTag) {
StringBuffer result = new StringBuffer();
result.append("<dl>");
for (int i = 0; i < tags.length; i++) {
if (tags[i].text().length() > 0) {
result.append("<dt><i>Copyright &#169; " + tags[i].text() + "</i></dt>");
}
}

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result.append("</dl>");
return result.toString();
}
else {
    return null;
}

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

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

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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.)

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

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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.)

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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
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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
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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
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Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
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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.

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   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.

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

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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!

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_Permission__
#define __java_security_Permission__

#pragma interface
#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
    namespace security
    {
        class Permission;
        class PermissionCollection;
    }
}
}

class java::security::Permission : public ::java::lang::Object
{
public:
    Permission(::java::lang::String *);
    virtual void checkGuard(::java::lang::Object *);
    virtual jboolean implies(::java::security::Permission *) = 0;
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual jint hashCode() = 0;
    virtual ::java::lang::String * getName();
    virtual ::java::lang::String * getActions() = 0;
    virtual ::java::security::PermissionCollection * newPermissionCollection();
    virtual ::java::lang::String * toString();
private:
    static const jlong serialVersionUID = -5636570222231596674LL;
    ::java::lang::String * __attribute__((aligned(__alignof__(::java::lang::Object)))) name;
public:
    static ::java::lang::Class class$;
};

#ifdef __java_security_Permission__
" Automatically generated by Pod::Man 4.09 (Pod::Simple 3.35)
" Standard preamble:
VICE SP Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
.. .de Vb V Begin verbatim text
.ft CW
.nf
.ne \$1
..
Set up some character translations and predefined strings. \"--\" will give an unbreakable dash, \%(PI\ will give pi, \%(L\ will give a left double quote, and \%(R\ will give a right double quote. \%(C+ will give a nicer C++. Capital omega is used to do unbreakable dashes and \%(C\ therefore won't be available. \%(C\ and \%(C\ expand to '' in nroff, nothing in troff, for use with C<<.

\tr \%(\W-.
\ds C+ C\w'-.1\v'dh'-.1p'\u'-.2\v'dh'-.1p'+\a's0\v'.1\v'dh'-.1p'
\ie n \{|\.
   ds -- \%(\W-.
   ds PI pi
   if (\n(.H=4u)&(1m=24u) .ds -- \%(\W'-.1\v'dh'-.1p'\u'-.2\v'dh'-.1p'+\a's0\v'.1\v'dh'-.1p'
\ie n \{|\.
   .ds -- \%(\W-.
   .ds PI pi
   if (\n(.H=4u)&(1m=20u) .ds -- \%(\W'-.1\v'dh'-.1p'\u'-.2\v'dh'-.1p'+\a's0\v'.1\v'dh'-.1p'
   .ds L\ "\ .
   .ds R\ "\ .
   .ds C\ "\ .
   .ds C\ "\ .
   'br\}
\el\{|.
   .ds -- \%(em\]
   .ds PI \%(p
   .ds L\ "\ .
   .ds R\ "\ .
   .ds C\ .
   .ds C\ .
   'br\}

\" Escape single quotes in literal strings from groff's Unicode transform.
\ie \n(.g .ds Aq \{aq
\el .ds Aq ' \\
\" If the F register is >0, we'll generate index entries on stderr for \title, \header, \subsection, \item, and index entries marked with X<< in POD. Of course, you'll have to process the output yourself in some meaningful fashion.

\" Avoid warning from groff about undefined register 'F'.
\de IX

\if \nF \.nr F 0
\if \nF>0 \{|\.
   .de IX
   tm Index:\$1\v\n%\"\$2"
if !nF==2 \
  nr % 0 
  nr F 2 
  \} 
\}
\"
\"
" Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
" Fear.  Run.  Save yourself.  No user-serviceable parts.
" \" fudge factors for nroff and troff
.if n \{
  ds #H 0 
  ds #V .8m 
  ds #F .3m 
  ds #[ \f1 
  ds #] \fP 
\}
.if t \{
  ds #H ((1u-(\\n(.fu%2u))*.13m) 
  ds #V .6m 
  ds #F 0 
  ds [#] \& 
  ds #] \& 
\}
\"
\"
" simple accents for nroff and troff
.if n \{
  ds ' \& 
  ds ` \& 
  ds ^ \& 
  ds , \& 
  ds ~ ~ 
  ds / \}
.if t \{
  ds `\h'-(\n(.wu*8/10-\*(#H)\h')\n:u'
  ds `\h'-(\n(.wu*8/10-\*(#H)\h')\n:u'
  ds `\h'-(\n(.wu*10/11-\*(#H)\h')\n:u'
  ds ,\h'-(\n(.wu*8/10)\h')\n:u'
  ds ~ \h'-(\n(.wu*8/(#H-.1m))\h')\n:u'
  ds /\k:\h'-(\n(.wu*8/10-\*(#H)\h')\n:u'
\}
\"
\"
" troff and (daisy-wheel) nroff accents
.ds :\k:\h'-(\n(.wu*8/10-\*(#H+1m+\*(#F)\v'\-\*(#F,\h')\n:u\v'\*(#V') 
.ds 8\h'-(\h'\*(#F,\h')\v'\-\*(#F,\h')\v'\*(#V') 
.ds o\k:\h'-(\n(.wu+\w\(de\u-\*(#H)/2u\v',3n\v'(\%(le\v'.3n\h')\n:u\v'\#) 
.ds d-\h'-(\p\(d\h'-\w'\-\u\v'-25m\v'25m\h'-\*(#F,\h')\v'\-\*(#H') 
.ds D-\D\k:\h'-(\w'Du\v'-11m\v'\(hy\v'.11m\h')\n:u'
.ds th\v'(\%(\v'.3m\s+1\s\v'-3m\h'-\(w\u*2/3)\s-1\s\v'+1\v'(\#) 
.ds Th\v'(\%(\s\v'+2\s\h'-w\u*3/5\v'-3m\h'\v'.3m\v'(\#)
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the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.


The “source code” for a work means the preferred form of the work for
making modifications to it. “Object code” means any non-source form
of a work.

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/* Permission.java -- The superclass for all permission objects

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package java.security;
import gnu.java.lang.CPStringBuilder;
import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 * <p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 * @author Aaron M. Renn (arenn@urbanophile.com)
 * @see Permissions
 * @see PermissionCollection
 * @since 1.1
 * @status updated to 1.4
 */
public abstract class Permission implements Guard, Serializable {
    private static final long serialVersionUID = -5636570222231596674L;

    /**
     * This is the name assigned to this permission object.
     *
     * @serial the name of the permission
     */
    private String name;

    /**
     * Create an instance with the specified name.
     */
    public abstract class Permission implements Guard, Serializable {
    private static final long serialVersionUID = -5636570222231596674L;

    /**
     * This is the name assigned to this permission object.
     *
     * @serial the name of the permission
     */
    private String name;

    /**
     * Create an instance with the specified name.
public Permission(String name) {
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 *
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj) {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null) {
        sm.checkPermission(this);
    }
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
* @return a hash value
*/
public abstract int hashCode();

/**
* Get the name of this <code>Permission</code>.
* @return the name
*/
public final String getName()
{
    return name;
}

/**
* This method returns the list of actions for this <code>Permission</code>
* as a <code>String</code>. The string should be in canonical order, for
* example, both <code>new FilePermission(f, "write,read")</code> and
* <code>new FilePermission(f, "read,write")</code> have the action list
* "read,write".
* @return the action list for this <code>Permission</code>
*/
public abstract String getActions();

/**
* This method returns an empty <code>PermissionCollection</code> object
* that can store permissions of this type, or <code>null</code> if no
* such collection is defined. Subclasses must override this to provide
* an appropriate collection when one is needed to accurately calculate
* <code>implies</code>.
* @return a new <code>PermissionCollection</code>
*/
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
* This method returns a <code>String</code> representation of this
* <code>Permission</code> object. This is in the format:
* <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
* + ')'</code>.
* @return this object as a <code>String</code>
*/
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());

    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}
} // class Permission

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Version 2.1, February 1999

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

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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:

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

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.

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

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

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

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

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

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:

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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.

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That's all there is to it!

<?dbhtml filename="appendix_gpl.html"?>
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The source code for a work means the preferred form of the
work for making modifications to it. Object code means any non-source form of a work.

A Standard Interface means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

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The Corresponding Source for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the works System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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</para>
</listitem>
</orderedlist>

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</bridgehead>

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</para>

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</para>

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

Convey individual copies of the object code with a copy of the written
offer to provide the Corresponding Source. This alternative is allowed
only occasionally and noncommercially, and only if you received the
object code with such an offer, in accord with subsection 6b.
</para>
</listitem>
<listitem>
  <para>
Convey the object code by offering access from a designated place
(gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to copy
the object code is a network server, the Corresponding Source may be on
a different server (operated by you or a third party) that supports
equivalent copying facilities, provided you maintain clear directions
next to the object code saying where to find the Corresponding Source.
Regardless of what server hosts the Corresponding Source, you remain
obligated to ensure that it is available for as long as needed to
satisfy these requirements.
</para>
</listitem>
<listitem>
  <para>
Convey the object code using peer-to-peer transmission, provided you
inform other peers where the object code and Corresponding Source of the
work are being offered to the general public at no charge under
subsection 6d.
</para>
</listitem>
</orderedlist>
<para>
A separable portion of the object code, whose source code is excluded from
the Corresponding Source as a System Library, need not be included in
conveying the object code work.
</para>
<para>
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^L
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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#!/usr/bin/python
# Copyright (C) 2013-2016 Free Software Foundation, Inc.
#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.
#
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.pl --this-year
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#    update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__ (self):
        self.num_errors = 0

    def report (self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write (string + '
')
        self.num_errors += 1

    def ok (self):
        return self.num_errors == 0

class GenericFilter:
    def __init__ (self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set ([
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
        ])

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True
    return False
if extension == '.in':
    # Skip .in files produced by automake.
    if os.path.exists (base + '.am'):
        return True

    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True
        if os.path.exists (base + '.in'):
            return True

    return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9][?[-0-9,.\s]+and\s+]*[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '[\w.-]'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)
# Matches a full copyright notice:
self.copyright_re = re.compile (  
    # 1: 'Copyright (C)', etc.
    '((Cc)opyright')  
    '((Cc)opyrights+\{(Cc)s\}')
    '((Cc)opyrights+%s')
    '((Cc)opyrights+&copy;'  
    '((Cc)opyrights+@copyright{ }')
    'copyright = u"'
    '@set{s+copyright[\w-]+}')

# 2: the years. Include the whitespace in the year, so that
# we can remove any excess.
'(\s*\(?:' + ranges + '+\?')
'[@value\{{[^{}]*\}]}s*)'

# 3: 'by ', if used
'(by\s+)?'

# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'(\+ name +(\?\?\? + name + *)?)'

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*[0-9]',
    re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')

self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '.
self.separator = ''

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find ('')
while index >= 0:
    self.holder_prefixes.add(holder[:index])
    index = holder.find(‘’, index + 1)

def add_external_author(self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__(self, year):
        self.year = year

    def __str__(self):
        return ‘unrecognised year: ’ + self.year

def parse_year(self, string):
    year = int(string)
    if len(string) == 2:
        if year > 70:
            return year + 1900
        elif len(string) == 4:
            return year
        raise self.BadYear(string)

    def year_range(self, years):
        year_list = [self.parse_year(year)
                     for year in self.year_re.findall(years)]
        assert len(year_list) > 0
        return (min(year_list), max(year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith(‘@value’):
        return years

    (min_year, max_year) = self.year_range(years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)

    # Use a range.
if min_year == max_year:
    return '%d' % min_year
else:
    return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != ':
            self.errors.report(pathname,
                               'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
        else:
            # If it looks like the copyright is incomplete, add the next line.
            while not self.is_complete(match):
                try:
                    next_line = file.next()
                except StopIteration:
                    break

            # Merge the lines for matching purposes.
            orig_line += next_line
    else:
        # If the next line doesn't look like a proper continuation,
        # assume that what we've got is complete.
        continuation = self.strip_continuation(next_line)
        if not self.continuation_re.match(continuation):
            break
line = line.rstrip() + ' ' + continuation
next_line = None

# Rematch with the longer line, at the original position.
match = self.copyright_re.match (line, match.start())
assert match

holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname, 'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

    line = (line[:match.start (2)]
            + ('' if intro.startswith ('copyright = ') else ' ')
            + canon_form + self.separator)
# Use the standard (C) form.
if intro.endswith('right'):
    intro += ' (C)'
elif intro.endswith('c'):
    intro = intro[:-3] + ' (C)'
line = line[:match.start(1)] + intro + line[match.end(1):]

# Strip trailing whitespace
line = line.rstrip() + '
'
return (line != orig_line, line, next_line)

def process_file(self, dir, filename, filter):
    pathname = os.path.join(dir, filename)
    if filename.endswith('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove(pathname)
        except OSError:
            pass
        return

    lines = []
    changed = False
    line_filter = filter.get_line_filter(dir, filename)
    with open(pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match(line)):
                    match = self.copyright_re.search(line)
                    if match:
                        res = self.update_copyright(dir, filename, filter,
                                                     file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed

                    # Check for copyright lines that might have slipped by.
                    elif self.other_copyright_re.search(line):
                        self.errors.report(pathname,
                                           'unrecognised copyright: %s'
                                           % line.strip())
                        lines.append(line)
                        line = next_line
# If something changed, write the new file out.
if changed and self.errors.ok():
    tmp_pathname = pathname + '.tmp'
    with open (tmp_pathname, 'w') as file:
        for line in lines:
            file.write (line)
    if self.use_quilt:
        subprocess.call (["quilt", 'add', pathname])
    os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
            self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
            self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter)}
def o_help(self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...
' % sys.argv[0])
    format = '%-15s %s
' for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('
Directories:
')
    format = '%-25s'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '
')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt(self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                self.copyright.process_tree (dir, filter)
                if count == 0:
                    self.errors.report (None, 'unrecognised directory: ' + dir)
+ chosen_dir
sys.exit (0 if self.errors.ok() else 1)

#----------------------------------
class TopLevelFilter (GenericFilter):
  def skip_dir (self, dir, subdir):
    return True

class ConfigFilter (GenericFilter):
  def __init__ (self):
    GenericFilter.__init__ (self)

  def skip_file (self, dir, filename):
    if filename.endswith ('.m4'):
      pathname = os.path.join (dir, filename)
      with open (pathname) as file:
        # Skip files imported from gettext.
        if file.readline().find ('gettext-') >= 0:
          return True
    return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
  def __init__ (self):
    GenericFilter.__init__ (self)

    self.skip_files |= set (['
      # Not part of GCC
      'math-68881.h',
    ])

    self.skip_dirs |= set (['
      # Better not create a merge nightmare for the GNAT folks.
      'ada',

      # Handled separately.
      'testsuite',
    ])

    self.skip_extensions |= set (['
      # Maintained by the translation project.
      '.po',

      # Automatically-generated.
      '.pot',
    ])

    self.fossilised_files |= set (['

\# Old news won't be updated.
'ONEWS',
])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set (
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
            )

    def skip_file (self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
            return True
        return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set (
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
            )

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (
            # Imported from GLIBC.
            'soft-fp',
            )
class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (]
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ]

    def get_line_filter (self, dir, filename):
        if filename == 'NameDecoder.h':
            return re.compile ('.*NAME_COPYRIGHT')
        if filename == 'ICC_Profile.h':
            return re.compile ('.*icSigCopyrightTag')
        return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (]
            # Handled separately.
            'testsuite',
        ]

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set (]
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ]

        self.skip_dirs |= set (]
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
'data',

    # Contains imported images
    'images',
    )

self.own_files |= set([
    # Contains markup around the copyright owner.
    'spine.xml',
    ]
)

def get_line_filter (self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile ('// \(C\) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('The Free Software Foundation', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Software Foundation, Inc.', canon_fsf)

        self.add_external_author ('ARM')
        self.add_external_author ('AdaCore')
        self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author ('Cavium Networks.')
        self.add_external_author ('Faraday Technology Corp.')
        self.add_external_author ('Florida State University')
        self.add_external_author ('Greg Colvin and Beman Dawes.')
        self.add_external_author ('Hewlett-Packard Company')
        self.add_external_author ('Information Technology Industry Council.')
        self.add_external_author ('James Theiler, Brian Gough')
        self.add_external_author ('Makoto Matsumoto and Takuji Nishimura,')
        self.add_external_author ('National Research Council of Canada.')
        self.add_external_author ('NVIDIA Corporation')
        self.add_external_author ('Peter Dimov and Multi Media Ltd.')
        self.add_external_author ('Peter Dimov')
        self.add_external_author ('Pipeline Associates, Inc.')
        self.add_external_author ('Regents of the University of California.')
        self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
class GCCCmdLine (CmdLine):
    def __init__(self):
        CmdLine.__init__(self, GCCCopyright)

        self.add_dir('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir('fixincludes')
        self.add_dir('gcc', GCCFilter())
        self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir('gnattools')
        self.add_dir('include')
        self.add_dir('libada')
        self.add_dir('libatomic')
        self.add_dir('libbacktrace')
        self.add_dir('libcpp', LibCppFilter())
        self.add_dir('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir('libgcc', LibGCCFilter())
        self.add_dir('libgomp')
        self.add_dir('libiberty')
        self.add_dir('libitm')
        self.add_dir('libjava', LibJavaFilter())
        self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
        self.add_dir('libmudflap', LibMudflapFilter())
        self.add_dir(os.path.join('libmudflap', 'testsuite'), TestsuiteFilter())
        self.add_dir('libobjc')
        self.add_dir('libquadmath')
        # libsanitisers is imported from upstream.
        self.add_dir('libssp')
        self.add_dir('libstdc++-v3', LibStdCxxFilter())
        self.add_dir('libvtv')
        self.add_dir('lto-plugin')
        # zlib is imported from upstream.
self.default_dirs = ['gcc',
'libada',
'libatomic',
'libbacktrace',
'libcpp',
'libdecimal',
'libgcc',
'libgfortran',
'libgomp',
'libitm',
'libmudflap',
'libobjc',
'libstdc++-v3',
]

GCCCmdLine().main()
if gnu.classpath.tools/taglets/CopyrightTaglet.java/lang/Objectcom/sun/tools/doclets/TagletNAME.java/lang/String;
ConstantValuecopyrightHEADER
Copyright:<init>()VCode
LineNumberTableLocalVariableTablethis->
Lgnu/classpath/tools/taglets/CopyrightTaglet;getName()Ljava/lang/String;inField()Z
inConstructorinMethod
inOverviewinPackageinTypeisinLineTagregister(Ljava/util/Map;)V

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@appendixsubsec Preamble

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Accompany the work with the complete corresponding
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{
namespace java
{
namespace security
{
namespace acl
{
    class Permission;
}
}
}
}

class java::security::acl::Permission : public ::java::lang::Object
{
public:
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual ::java::lang::String * toString() = 0;
    static ::java::lang::Class class$;
} __attribute__ ((java_interface));
#endif // __java_security_acl_Permission__

This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

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The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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/* Definitions for BSD assembler syntax for Intel 386 (actually AT&T syntax for insns and operands, adapted to BSD conventions for symbol names and debugging.)
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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix "."s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */
/* This was suggested, but it shouldn’t be right for DBX output. -- RMS */
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE, SIZE) \
fprintf (FILE, "\t.space \"HOST_WIDE_INT_PRINT_UNSIGNED\"\", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \
( fputs (".comm \", (FILE)),\ 
assemble_name ((FILE), (NAME)),\ 
fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \
( fputs (".lcomm \", (FILE)),\ 
assemble_name ((FILE), (NAME)),\ 
fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#if defined HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \
( fputs (".lcomm \", (FILE)),\ 
assemble_name ((FILE), (NAME)),\ 
fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line that says to advance the location counter to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE, LOG) \
if ((LOG)!=0) fprintf ((FILE), \t\t.align %d\n", (LOG))

/* This is how to store into the string BUF the symbol_ref name of an internal numbered label where PREFIX is the class of label and NUM is the number within the class. */
This is suitable for output with 'assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) 
  sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

/* Permission.java -- Information about an ACL permission */

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/**
 * This interface provides information about a permission that can be
 * granted. Note that this is <em>not</em> the same as the class
 * <code>java.security.Permission</code>.
 * 
 * @version 0.0
 * 
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
 public interface Permission {
    /**
     * This method tests whether or not a specified <code>Permission</code>
     * (passed as an <code>Object</code>) is the same as this permission.
     * 
     * @param perm The permission to check for equality
     * 
     * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
     */
    boolean equals (Object perm);

    /**
     * This method returns this <code>Permission</code> as a <code>String</code>.
     * 
     * @return A <code>String</code> representing this permission.
     */
    String toString();
}

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extern "Java"
{
namespace gnu
{
namespace javax
{
namespace sound
{
    class AudioSecurityManager$Permission;

} // namespace sound
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1.604 serve-static 1.14.1

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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1.612 ncurses-base 6.1-7.20180224.el8

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1.614 gpgv 2.2.12 1+deb10u1

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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Exporter - Implements default import method for modules

In module F<YourModule.pm>:

    package YourModule;
    require Exporter;
    @ISA = qw(Exporter);
    @EXPORT_OK = qw(munge frobnicate);  # symbols to export on request

or

    package YourModule;
    use Exporter 'import'; # gives you Exporter's import() method directly
    @EXPORT_OK = qw(munge frobnicate);  # symbols to export on request

In other files which wish to use C<YourModule>:

    use YourModule qw(frobnicate);      # import listed symbols
    frobnicate ($left, $right)          # calls YourModule::frobnicate

Take a look at L</Good Practices> for some variants you will like to use in modern Perl code.

The Exporter module implements an C<import> method which allows a module to export functions and variables to its users' namespaces. Many modules use Exporter rather than implementing their own C<import> method because Exporter provides a highly flexible interface, with an implementation optimised for the common case.

Perl automatically calls the C<import> method when processing a C<use> statement for a module. Modules and C<use> are documented in L<perlfunc> and L<perlmod>. Understanding the concept of modules and how the C<use> statement operates is important to understanding the Exporter.
The arrays \texttt{C}@\texttt{EXPORT@}> and \texttt{C}@\texttt{EXPORT_OK@}> in a module hold lists of symbols that are going to be exported into the users name space by default, or which they can request to be exported, respectively. The symbols can represent functions, scalars, arrays, hashes, or typeglobs. The symbols must be given by full name with the exception that the ampersand in front of a function is optional, e.g.

\begin{verbatim}
    @EXPORT    = qw(afunc $scalar @array);   # afunc is a function
    @EXPORT_OK = qw(&bfunc %hash *typeglob); # explicit prefix on &bfunc
\end{verbatim}

If you are only exporting function names it is recommended to omit the ampersand, as the implementation is faster this way.

=head2 Selecting What to Export

Do \texttt{not} export method names!

Do \texttt{not} export anything else by default without a good reason!

Exports pollute the namespace of the module user. If you must export try to use \texttt{C}@\texttt{EXPORT_OK@> in preference to \texttt{C}@\texttt{EXPORT@> and avoid short or common symbol names to reduce the risk of name clashes.

Generally anything not exported is still accessible from outside the module using the \texttt{C}@\texttt{YourModule::item_name@> (or \texttt{C}@\texttt{$blessed_ref->method@>> syntax. By convention you can use a leading underscore on names to informally indicate that they are 'internal' and not for public use.

(It is actually possible to get private functions by saying:

\begin{verbatim}
    my $subref = sub { ... };  
    $subref->(@args);           # Call it as a function
    $obj->$subref(@args);       # Use it as a method
\end{verbatim}

However if you use them for methods it is up to you to figure out how to make inheritance work.)

As a general rule, if the module is trying to be object oriented then export nothing. If it's just a collection of functions then \texttt{C}@\texttt{EXPORT_OK@> anything but use \texttt{C}@\texttt{EXPORT@> with caution. For function and method names use barewords in preference to names prefixed with ampersands for the export lists.

Other module design guidelines can be found in \texttt{L}@\texttt{perlmod@>.

=head2 How to Import

In other files which wish to use your module there are three basic ways for
them to load your module and import its symbols:

=over 4

=item C<use YourModule;>

This imports all the symbols from YourModule's C<@EXPORT> into the namespace of the C<use> statement.

=item C<use YourModule ();>

This causes perl to load your module but does not import any symbols.

=item C<use YourModule qw(...);>

This imports only the symbols listed by the caller into their namespace. All listed symbols must be in your C<@EXPORT> or C<@EXPORT_OK>, else an error occurs. The advanced export features of Exporter are accessed like this, but with list entries that are syntactically distinct from symbol names.

=back

Unless you want to use its advanced features, this is probably all you need to know to use Exporter.

=head1 Advanced Features

=head2 Specialised Import Lists

If any of the entries in an import list begins with !, : or / then the list is treated as a series of specifications which either add to or delete from the list of names to import. They are processed left to right. Specifications are in the form:

- [!]name         This name only
- [!]:DEFAULT    All names in @EXPORT
- [!]:tag         All names in $EXPORT_TAGS{tag} anonymous list
- [!]/pattern/    All names in @EXPORT and @EXPORT_OK which match

A leading ! indicates that matching names should be deleted from the list of names to import. If the first specification is a deletion it is treated as though preceded by :DEFAULT. If you just want to import extra names in addition to the default set you will still need to include :DEFAULT explicitly.

e.g., F<Module.pm> defines:

    @EXPORT  = qw(A1 A2 A3 A4 A5);
Note that you cannot use tags in @EXPORT or @EXPORT_OK.

Names in EXPORT_TAGS must also appear in @EXPORT or @EXPORT_OK.

An application using Module can say something like:

use Module qw(:DEFAULT :T2 !B3 A3);

Other examples include:

use Socket qw(!/^[AP]F_/ !SOMAXCONN !SOL_SOCKET);
use POSIX qw(:errno_h :termios_h !TCSADRAIN !/^EXIT/);

Remember that most patterns (using //) will need to be anchored with a leading ^, e.g., C</^EXIT/> rather than C</EXIT/>.

You can say C<BEGIN { $Exporter::Verbose=1 }> to see how the specifications are being processed and what is actually being imported into modules.

=head2 Exporting Without Using Exporter's import Method

Exporter has a special method, 'export_to_level' which is used in situations where you can't directly call Exporter's import method. The export_to_level method looks like:

```
MyPackage->export_to_level($where_to_export, $package, @what_to_export);
```

where C<$where_to_export> is an integer telling how far up the calling stack to export your symbols, and C@$what_to_export> is an array telling what symbols *to* export (usually this is C@$_>). The C<$package> argument is currently unused.

For example, suppose that you have a module, A, which already has an import function:

```
package A:

@ISA = qw(Exporter);
@EXPORT_OK = qw($b);
sub import
```


and you want to Export symbol $A::b> back to the module that called package A. Since Exporter relies on the import method to work, via inheritance, as it stands Exporter::import() will never get called. Instead, say the following:

```perl
package A;
@ISA = qw(Exporter);
@EXPORT_OK = qw($b);

sub import
{
  $A::b = 1;
  A->export_to_level(1, @_);
}
```

This will export the symbols one level 'above' the current package - ie: to the program or module that used package A.

Note: Be careful not to modify @_ at all before you call export_to_level - or people using your package will get very unexplained results!

=head2 Exporting Without Inheriting from Exporter

By including Exporter in your @ISA> you inherit an Exporter's import() method but you also inherit several other helper methods which you probably don't want. To avoid this you can do:

```perl
package YourModule;
use Exporter qw(import);

which will export Exporter's own import() method into YourModule. Everything will work as before but you won't need to include Exporter in @YourModule::ISA>.

Note: This feature was introduced in version 5.57 of Exporter, released with perl 5.8.3.

=head2 Module Version Checking

The Exporter module will convert an attempt to import a number from a module into a call to '$module_name->VERSION($value)'. This can be used to validate that the version of the module being used is greater than or equal to the required version.
For historical reasons, Exporter supplies a `require_version` method that simply delegates to `VERSION`. Originally, before `UNIVERSAL::VERSION` existed, Exporter would call `require_version`.

Since the `UNIVERSAL::VERSION` method treats the `$VERSION` number as a simple numeric value it will regard version 1.10 as lower than 1.9. For this reason it is strongly recommended that you use numbers with at least two decimal places, e.g., 1.09.

=head2 Managing Unknown Symbols

In some situations you may want to prevent certain symbols from being exported. Typically this applies to extensions which have functions or constants that may not exist on some systems.

The names of any symbols that cannot be exported should be listed in the `@EXPORT_FAIL` array.

If a module attempts to import any of these symbols the Exporter will give the module an opportunity to handle the situation before generating an error. The Exporter will call an `export_fail` method with a list of the failed symbols:

```perl
@failed_symbols = $module_name->export_fail(@failed_symbols);
```

If the `export_fail` method returns an empty list then no error is recorded and all the requested symbols are exported. If the returned list is not empty then an error is generated for each symbol and the export fails. The Exporter provides a default `export_fail` method which simply returns the list unchanged.

Uses for the `export_fail` method include giving better error messages for some symbols and performing lazy architectural checks (put more symbols into `@EXPORT_FAIL` by default and then take them out if someone actually tries to use them and an expensive check shows that they are usable on that platform).

=head2 Tag Handling Utility Functions

Since the symbols listed within `%EXPORT_TAGS` must also appear in either `@EXPORT` or `@EXPORT_OK`, two utility functions are provided which allow you to easily add tagged sets of symbols to `@EXPORT` or `@EXPORT_OK`:

```perl
%EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);
```

```perl
Exporter::export_tags('foo');  # add aa, bb and cc to @EXPORT
Exporter::export_ok_tags('bar');  # add aa, cc and dd to @EXPORT_OK
```
Any names which are not tags are added to C<@EXPORT> or C<@EXPORT_OK> unchanged but will trigger a warning (with C<-w>) to avoid misspelt tags names being silently added to C<@EXPORT> or C<@EXPORT_OK>. Future versions may make this a fatal error.

=head2 Generating Combined Tags

If several symbol categories exist in C<%EXPORT_TAGS>, it's usually useful to create the utility ":all" to simplify "use" statements.

The simplest way to do this is:

```
%EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);

# add all the other ":class" tags to the ":all" class,
# deleting duplicates
{  
    my %seen;

    push @{$EXPORT_TAGS{all}},
        grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}} foreach keys %EXPORT_TAGS;
}
```

F<CGI.pm> creates an ":all" tag which contains some (but not really all) of its categories. That could be done with one small change:

```
# add some of the other ":class" tags to the ":all" class,
# deleting duplicates
{  
    my %seen;

    push @{$EXPORT_TAGS{all}},
        grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}}
        foreach qw/html2 html3 netscape form cgi internal/;
}
```

Note that the tag names in C<%EXPORT_TAGS> don't have the leading ":".

=head2 C<AUTOLOAD>ed Constants

Many modules make use of C<AUTOLOAD>ing for constant subroutines to avoid having to compile and waste memory on rarely used values (see L<perlsub> for details on constant subroutines). Calls to such constant subroutines are not optimized away at compile time because they can't be checked at compile time for constancy.

Even if a prototype is available at compile time, the body of the
A workaround for this is to call the constants once in a C<BEGIN> block:

```perl
package My;

use Socket;

foo( SO_LINGER );  ## SO_LINGER NOT optimized away; called at runtime
BEGIN { SO_LINGER }
foo( SO_LINGER );  ## SO_LINGER optimized away at compile time.
```

This forces the C<AUTOLOAD> for C<SO_LINGER> to take place before SO_LINGER is encountered later in C<My> package.

If you are writing a package that C<AUTOLOAD>s, consider forcing an C<AUTOLOAD> for any constants explicitly imported by other packages or which are usually used when your package is C<use>d.

=head1 Good Practices

=head2 Declaring C<@EXPORT_OK> and Friends

When using C<Exporter> with the standard C<strict> and C<warnings> pragmas, the C<our> keyword is needed to declare the package variables C<@EXPORT_OK>, C<@EXPORT>, C<@ISA>, etc.

```perl
our @ISA = qw(Exporter);
our @EXPORT_OK = qw(munge frobnicate);
```

If backward compatibility for Perls under 5.6 is important, one must write instead a C<use vars> statement.

```perl
use vars qw(@ISA @EXPORT_OK);
@ISA = qw(Exporter);
@EXPORT_OK = qw(munge frobnicate);
```

=head2 Playing Safe

There are some caveats with the use of runtime statements like C<require Exporter> and the assignment to package variables, which can be very subtle for the unaware programmer. This may happen for instance with mutually recursive modules, which are affected by the time the relevant constructions are executed.
The ideal (but a bit ugly) way to never have to think about that is to use \texttt{BEGIN} blocks. So the first part of the \texttt{SYNOPSIS} code could be rewritten as:

\begin{verbatim}
package YourModule;

use strict;
use warnings;

our (@ISA, @EXPORT_OK);
BEGIN {
    require Exporter;
    @ISA = qw(Exporter);
    @EXPORT_OK = qw(munge frobnicate);  # symbols to export on request
}
\end{verbatim}

The \texttt{BEGIN} will assure that the loading of \texttt{Exporter.pm} and the assignments to \texttt{@ISA} and \texttt{@EXPORT_OK} happen immediately, leaving no room for something to get awry or just plain wrong.

With respect to loading \texttt{Exporter} and inheriting, there are alternatives with the use of modules like \texttt{base} and \texttt{parent}.

\begin{verbatim}
use base qw(Exporter);
    # or
use parent qw(Exporter);
\end{verbatim}

Any of these statements are nice replacements for \texttt{BEGIN { require Exporter; @ISA = qw(Exporter); }} with the same compile-time effect. The basic difference is that \texttt{base} code interacts with declared \texttt{fields} while \texttt{parent} is a streamlined version of the older \texttt{base} code to just establish the IS-A relationship.

For more details, see the documentation and code of \texttt{base} and \texttt{parent}.

Another thorough remedy to that runtime vs. compile-time trap is to use \texttt{Exporter::Easy}, which is a wrapper of Exporter that allows all boilerplate code at a single gulp in the use statement.

\begin{verbatim}
use Exporter::Easy (OK => [qw(munge frobnicate)],);
\end{verbatim}
What Not to Export

You have been warned already in L<Selecting What to Export> to not export:

- method names (because you don't need to and that's likely to not do what you want),
- anything by default (because you don't want to surprise your users... badly)
- anything you don't need to (because less is more)

There's one more item to add to this list. Do not export variable names. Just because <Exporter> lets you do that, it does not mean you should.

@EXPORT_OK = qw($svar @avar %hvar); # DON'T!

Exporting variables is not a good idea. They can change under the hood, provoking horrible effects at-a-distance that are too hard to track and to fix. Trust me: they are not worth it.

To provide the capability to set/get class-wide settings, it is best instead to provide accessors as subroutines or class methods instead.

SEE ALSO

<Exporter> is definitely not the only module with symbol exporter capabilities. At CPAN, you may find a bunch of them. Some are lighter. Some provide improved APIs and features. Pick the one that fits your needs. The following is
a sample list of such modules.

Exporter::Easy
Exporter::Lite
Exporter::Renaming
Exporter::Tidy
Sub::Exporter / Sub::Installer
Perl6::Export / Perl6::Export::Attrs

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NAME
Exporter - Implements default import method for modules

SYNOPSIS
In module YourModule.pm:

    package YourModule;
    require Exporter;
    @ISA = qw(Exporter);
    @EXPORT_OK = qw(munge frobnicate);  # symbols to export on request

or

    package YourModule;
    use Exporter 'import'; # gives you Exporter's import() method directly
    @EXPORT_OK = qw(munge frobnicate);  # symbols to export on request

In other files which wish to use "YourModule":

    use YourModule qw(frobnicate);  # import listed symbols
    frobnicate ($left, $right)       # calls YourModule::frobnicate

Take a look at "Good Practices" for some variants you will like to use in modern Perl code.

DESCRIPTION
The Exporter module implements an "import" method which allows a module
Perl automatically calls the "import" method when processing a "use" statement for a module. Modules and "use" are documented in perlfunc and perlmod. Understanding the concept of modules and how the "use" statement operates is important to understanding the Exporter.

How to Export
The arrays @EXPORT and @EXPORT_OK in a module hold lists of symbols that are going to be exported into the users name space by default, or which they can request to be exported, respectively. The symbols can represent functions, scalars, arrays, hashes, or typeglobs. The symbols must be given by full name with the exception that the ampersand in front of a function is optional, e.g.

@EXPORT = qw(afunc $scalar @array);  # afunc is a function
@EXPORT_OK = qw(&bfunc %hash *typeglob); # explicit prefix on &bfunc

If you are only exporting function names it is recommended to omit the ampersand, as the implementation is faster this way.

Selecting What To Export
Do not export method names!

Do not export anything else by default without a good reason!

Exports pollute the namespace of the module user. If you must export try to use @EXPORT_OK in preference to @EXPORT and avoid short or common symbol names to reduce the risk of name clashes.

Generally anything not exported is still accessible from outside the module using the "YourModule::item_name" (or "$blessed_ref->method") syntax. By convention you can use a leading underscore on names to informally indicate that they are 'internal' and not for public use.

(It is actually possible to get private functions by saying:

my $subref = sub { ... };
$subref->(@args);  # Call it as a function
$obj->$subref(@args);  # Use it as a method

However if you use them for methods it is up to you to figure out how to make inheritance work.)

As a general rule, if the module is trying to be object oriented then
export nothing. If it's just a collection of functions then @EXPORT_OK
anything but use @EXPORT with caution. For function and method names use
barewords in preference to names prefixed with ampersands for the export
lists.

Other module design guidelines can be found in perlmod.

How to Import
In other files which wish to use your module there are three basic ways
for them to load your module and import its symbols:

"use YourModule;"
This imports all the symbols from YourModule's @EXPORT into the
namespace of the "use" statement.

"use YourModule ();"
This causes perl to load your module but does not import any
symbols.

"use YourModule qw(...);"
This imports only the symbols listed by the caller into their
namespace. All listed symbols must be in your @EXPORT or @EXPORT_OK,
else an error occurs. The advanced export features of Exporter are
accessed like this, but with list entries that are syntactically
distinct from symbol names.

Unless you want to use its advanced features, this is probably all you
need to know to use Exporter.

Advanced features
Specialised Import Lists
If any of the entries in an import list begins with !, ; or / then the
list is treated as a series of specifications which either add to or
delete from the list of names to import. They are processed left to
right. Specifications are in the form:

![name] This name only
![DEFAULT] All names in @EXPORT
![tag] All names in $EXPORT_TAGS{tag} anonymous list
![pattern/] All names in @EXPORT and @EXPORT_OK which match

A leading ! indicates that matching names should be deleted from the
list of names to import. If the first specification is a deletion it is
treated as though preceded by :DEFAULT. If you just want to import extra
names in addition to the default set you will still need to include
:DEFAULT explicitly.

e.g., Module.pm defines:
@EXPORT      = qw(A1 A2 A3 A4 A5);
@EXPORT_OK   = qw(B1 B2 B3 B4 B5);
%EXPORT_TAGS = (T1 => [qw(A1 A2 B1 B2)], T2 => [qw(A1 A2 B3 B4)]);

Note that you cannot use tags in @EXPORT or @EXPORT_OK.
Names in EXPORT_TAGS must also appear in @EXPORT or @EXPORT_OK.

An application using Module can say something like:

use Module qw(:DEFAULT :T2 !B3 A3);

Other examples include:

use Socket qw(!/^AP/F_/ !SOMAXCONN !SOL_SOCKET);
use POSIX  qw(:errno_h :termios_h !TCSADRAIN !/^EXIT/);

Remember that most patterns (using //) will need to be anchored with a
leading ^, e.g., "/^EXIT/" rather than "/EXIT/".

You can say "BEGIN { $Exporter::Verbose=1 }" to see how the
specifications are being processed and what is actually being imported
into modules.

Exporting without using Exporter's import method
Exporter has a special method, 'export_to_level' which is used in
situations where you can't directly call Exporter's import method. The
export_to_level method looks like:

MyPackage->export_to_level($where_to_export, $package, @what_to_export);

where $where_to_export is an integer telling how far up the calling
stack to export your symbols, and @what_to_export is an array telling
what symbols *to* export (usually this is @_). The $package argument is
currently unused.

For example, suppose that you have a module, A, which already has an
import function:

package A;

@ISA = qw(Exporter);
@EXPORT_OK = qw ($b);

sub import
{
  $A::b = 1;  # not a very useful import method
}


and you want to Export symbol $A::b back to the module that called package A. Since Exporter relies on the import method to work, via inheritance, as it stands Exporter::import() will never get called. Instead, say the following:

```perl
package A;
@ISA = qw(Exporter);
@EXPORT_OK = qw ($b);

sub import
{
  $A::b = 1;
  A->export_to_level(1, @_);
}
```

This will export the symbols one level 'above' the current package - ie: to the program or module that used package A.

Note: Be careful not to modify @_ at all before you call export_to_level - or people using your package will get very unexplained results!

Exporting without inheriting from Exporter
By including Exporter in your @ISA you inherit an Exporter's import() method but you also inherit several other helper methods which you probably don't want. To avoid this you can do

```perl
package YourModule;
use Exporter qw( import );
```

which will export Exporter's own import() method into YourModule. Everything will work as before but you won't need to include Exporter in @YourModule::ISA.

Note: This feature was introduced in version 5.57 of Exporter, released with perl 5.8.3.

Module Version Checking
The Exporter module will convert an attempt to import a number from a module into a call to "$module_name->require_version($value)". This can be used to validate that the version of the module being used is greater than or equal to the required version.

The Exporter module supplies a default "require_version" method which checks the value of $VERSION in the exporting module.

Since the default "require_version" method treats the $VERSION number as a simple numeric value it will regard version 1.10 as lower than 1.9.
For this reason it is strongly recommended that you use numbers with at least two decimal places, e.g., 1.09.

Managing Unknown Symbols
In some situations you may want to prevent certain symbols from being exported. Typically this applies to extensions which have functions or constants that may not exist on some systems.

The names of any symbols that cannot be exported should be listed in the @EXPORT_FAIL array.

If a module attempts to import any of these symbols the Exporter will give the module an opportunity to handle the situation before generating an error. The Exporter will call an export_fail method with a list of the failed symbols:

```perl
@failed_symbols = $module_name->export_fail(@failed_symbols);
```

If the "export_fail" method returns an empty list then no error is recorded and all the requested symbols are exported. If the returned list is not empty then an error is generated for each symbol and the export fails. The Exporter provides a default "export_fail" method which simply returns the list unchanged.

Uses for the "export_fail" method include giving better error messages for some symbols and performing lazy architectural checks (put more symbols into @EXPORT_FAIL by default and then take them out if someone actually tries to use them and an expensive check shows that they are usable on that platform).

Tag Handling Utility Functions
Since the symbols listed within %EXPORT_TAGS must also appear in either @EXPORT or @EXPORT_OK, two utility functions are provided which allow you to easily add tagged sets of symbols to @EXPORT or @EXPORT_OK:

```perl
%EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);
```

```perl
Exporter::export_tags('foo');     # add aa, bb and cc to @EXPORT
Exporter::export_ok_tags('bar');  # add aa, cc and dd to @EXPORT_OK
```

Any names which are not tags are added to @EXPORT or @EXPORT_OK unchanged but will trigger a warning (with "-w") to avoid misspelt tags names being silently added to @EXPORT or @EXPORT_OK. Future versions may make this a fatal error.

Generating combined tags
If several symbol categories exist in %EXPORT_TAGS, it's usually useful to create the utility ":all" to simplify "use" statements.
The simplest way to do this is:

```perl
%EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);

# add all the other ":class" tags to the ":all" class,
# deleting duplicates
{
    my %seen;

    push @{$EXPORT_TAGS{all}},
        grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}} foreach keys %EXPORT_TAGS;
}
```

CGI.pm creates an ":all" tag which contains some (but not really all) of its categories. That could be done with one small change:

```perl
# add some of the other ":class" tags to the ":all" class,
# deleting duplicates
{
    my %seen;

    push @{$EXPORT_TAGS{all}},
        grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}} foreach qw/html2 html3 netscape form cgi internal/;
}
```

Note that the tag names in %EXPORT_TAGS don't have the leading ":".

"AUTOLOAD"ed Constants

Many modules make use of "AUTOLOAD"ing for constant subroutines to avoid having to compile and waste memory on rarely used values (see perlsub for details on constant subroutines). Calls to such constant subroutines are not optimized away at compile time because they can't be checked at compile time for constancy.

Even if a prototype is available at compile time, the body of the subroutine is not (it hasn't been "AUTOLOAD"ed yet). perl needs to examine both the "()" prototype and the body of a subroutine at compile time to detect that it can safely replace calls to that subroutine with the constant value.

A workaround for this is to call the constants once in a "BEGIN" block:

```perl
package My ;

use Socket ;
```
foo( SO_LINGER );  ## SO_LINGER NOT optimized away; called at runtime
BEGIN { SO_LINGER }
foo( SO_LINGER );  ## SO_LINGER optimized away at compile time.

This forces the "AUTOLOAD" for "SO_LINGER" to take place before
SO_LINGER is encountered later in "My" package.

If you are writing a package that "AUTOLOAD"s, consider forcing an
"AUTOLOAD" for any constants explicitly imported by other packages or
which are usually used when your package is "use"d.

Good Practices
Declaring @EXPORT_OK and Friends
When using "Exporter" with the standard "strict" and "warnings" pragmas,
the "our" keyword is needed to declare the package variables @EXPORT_OK,
@EXPORT, @ISA, etc.

our @ISA = qw(Exporter);
our @EXPORT_OK = qw(munge frobnicate);

If backward compatibility for Perls under 5.6 is important, one must
write instead a "use vars" statement.

use vars qw(@ISA @EXPORT_OK);
  @ISA = qw(Exporter);
  @EXPORT_OK = qw(munge frobnicate);

Playing Safe
There are some caveats with the use of runtime statements like "require
Exporter" and the assignment to package variables, which can very subtle
for the unaware programmer. This may happen for instance with mutually
recursive modules, which are affected by the time the relevant
constructions are executed.

The ideal (but a bit ugly) way to never have to think about that is to
use "BEGIN" blocks. So the first part of the "SYNOPSIS" code could be
rewritten as:

package YourModule;

use strict;
use warnings;

our (@ISA, @EXPORT_OK);
BEGIN {
  require Exporter;
  @ISA = qw(Exporter);
  @EXPORT_OK = qw(munge frobnicate);  # symbols to export on request
The "BEGIN" will assure that the loading of Exporter.pm and the assignments to @ISA and @EXPORT_OK happen immediately, leaving no room for something to get awry or just plain wrong.

With respect to loading "Exporter" and inheriting, there are alternatives with the use of modules like "base" and "parent".

```perl
use base qw( Exporter );
# or
use parent qw( Exporter );
```

Any of these statements are nice replacements for "BEGIN { require Exporter; @ISA = qw(Exporter): }" with the same compile-time effect. The basic difference is that "base" code interacts with declared "fields" while "parent" is a streamlined version of the older "base" code to just establish the IS-A relationship.

For more details, see the documentation and code of base and parent.

Another thorough remedy to that runtime vs. compile-time trap is to use Exporter::Easy, which is a wrapper of Exporter that allows all boilerplate code at a single gulp in the use statement.

```perl
use Exporter::Easy (
    OK => [ qw(munge frobnicate) ],
);
# @ISA setup is automatic
# all assignments happen at compile time
```

What not to Export

You have been warned already in "Selecting What To Export" to not export:

* method names (because you don't need to and that's likely to not do what you want),

* anything by default (because you don't want to surprise your users... badly)

* anything you don't need to (because less is more)

There's one more item to add to this list. Do not export variable names. Just because "Exporter" lets you do that, it does not mean you should.

```perl
@EXPORT_OK = qw( $svar @avar %hvar ); # DON'T!
```
Exporting variables is not a good idea. They can change under the hood, provoking horrible effects at-a-distance, that are too hard to track and to fix. Trust me: they are not worth it.

To provide the capability to set/get class-wide settings, it is best instead to provide accessors as subroutines or class methods instead.

SEE ALSO
"Exporter" is definitely not the only module with symbol exporter capabilities. At CPAN, you may find a bunch of them. Some are lighter. Some provide improved APIs and features. Peek the one that fits your needs. The following is a sample list of such modules.

Exporter::Easy
Exporter::Lite
Exporter::Renaming
Exporter::Tidy
Sub::Exporter / Sub::Installer
Perl6::Export / Perl6::Export::Attrs

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Found in path(s):
* /opt/cola/permits/1185063477_1627670998.49/0/perl-Exporter-5.72-396.el8-1.src.rpm-cosi-expand-archive-jRskFWeE/Exporter-5.70.tar.gz-cosi-expand-archive-7K Tic10H/Exporter-5.70/README
No license file was found, but licenses were detected in source scan.

---
abstract: 'Implements default import method for modules'
author:
- unknown
buildRequires:
  ExtUtils::MakeMaker: 0
configureRequires:
  ExtUtils::MakeMaker: 0
dynamicConfig: 1
generatedBy: 'ExtUtils::MakeMaker version 6.68, CPAN::Meta::Converter version 2.120921'
license: perl
metaSpec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Exporter
noIndex:
directory:
  - t
  - inc
recommends:
  Test::Pod: 1.18
  Test::Pod::Coverage: 1.04
requires:
  Carp: 1.05
resources:
  bugtracker: http://rt.perl.org/perlbug/
  license: http://dev.perl.org/licenses/
  repository: http://perl5.git.perl.org/perl.git/tree/HEAD:/lib
  x_MailingList: http://lists.perl.org/list/perl5-porters.html
version: 5.70

Found in path(s):
  * /opt/cola/permits/1185063477_1627670998.49/0/perl-Exporter-5.72-396.el8-1.src.rpm-cosi-expand-archive-
    jRSkFWeE/Exporter-5.70.tar.gz-cosi-expand-archive-7KTICI0H/Exporter-5.70/META.yml

**1.619 split2 3.2.2**

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**1.620 uuid 1.2.0**

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1.621 body-parser 1.19.0

1.621.1 Available under license :

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1.622 abbrev 1.1.1

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1.623 libnpth0 1.5 3
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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.)

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

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

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

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

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

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executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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.

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

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

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   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.)

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

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

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

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

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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.)

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1.626 jsonpatch 4.5.0+incompatible

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1.627 dosfs-tools 4.1 1

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* configure.ac, Makefile.am: The original versions were derived from the
ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were
derived from the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cffe2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

  Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
  admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
  except the first one, were first implemented in the Buildtool project.
  They were later adapted to be part of Boost.Process and, during that
  process, the shell script was created.

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1.632 findutils 4.6.0+git+20190209 2

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Debian maintainer history: The original package was put together by Ian Murdock <imurdock@debian.org>, afterwards Kevin Dalley <kevind@rahul.net> took over. 2003-07 Andreas Metzler <ametzler@debian.org> followed.

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* GNU xargs was originally written by Mike Rendell, with enhancements by David MacKenzie. Modifications by James Youngman Dmitry V. Levin

* GNU locate and its associated utilities were originally written by James Woods, with enhancements by David MacKenzie, James Youngman and Bas van Gompel.

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Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

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1.650 umask 1.1.0

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threshold for this to be true is not precisely defined by law.

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

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

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link a "work that uses the Library" with the Library to produce a
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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.

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1.666 python-six 1.11.0 2

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1.667 perl-data-dumper 2.167-399.el8

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Found in path(s):
* /opt/cola/permits/1185063380_1627671661.96/0/perl-Data-Dumper-2.167-399.el8-1.src.rpm-cosi-expand-archive-mR3L6Ety/perl-Data-Dumper.spec

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---

abstract: unknown
author:
- unknown
build_requires:
  ExtUtils::MakeMaker: '0'
  Test::More: '0.98'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 0
generated_by: 'ExtUtils::MakeMaker version 7.0401, CPAN::Meta::Converter version 2.15001'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Data-Dumper
no_index:
directory:
  - t
  - inc
requires: {}
resources:
  MailingList: http://lists.cpan.org/showlist.cgi?name=perl5-porters
  bugtracker: http://rt.perl.org/perlbug/
  repository: 'git://perl5.git.perl.org/perl.git perl-git'
  version: '2.161'

---

From 9f38b6c605086a67f0d9259f18e8de99bc1d9164 Mon Sep 17 00:00:00 2001
From: =?UTF-8?q?Petr=20P=C3=ADsa=C5=99?= <ppisar@redhat.com>
Date: Thu, 11 May 2017 09:25:35 +0200
Subject: [PATCH] Upgrade to 2.167
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

Unbundled from perl-5.25.12.

Signed-off-by: Petr Písa <ppisar@redhat.com>
---
Changes    |  14 +++++
Dumper.pm   |  47 ++++++++---------
Dumper.xs   | 167 +++++++++++++++++++++++++++++++++++++++++++++---------------
t/bugs.t    |  37 ++++++++++++++++++
t/deparse.t |  22 ++++-
5 files changed, 207 insertions(+), 80 deletions(-)

diff --git a/Changes b/Changes
index f9ea53f..a5430d5 100644
--- a/Changes
+++ b/Changes
@@ -6,6 +6,20 @@ Changes - public release history for Data::Dumper

=over 8

+=item 2.166 (Nov 29 2016)
+
+Reduce memory usage by not importing from Carp
+Reduce memory usage by removing unused overload require.
+
+=item 2.165 (Nov 20 2016)
+
+Remove impediment to compiling under C++11.
+
+=item 2.164 (Nov 12 2016)
+
+The XS implementation now handles the C<Deparse> option, so using it no
+longer forces use of the pure-Perl version.
+
=item 2.161 (Jul 11 2016)

Perl 5.12 fix/workaround until fixed PPPort release.
diff --git a/Dumper.pm b/Dumper.pm
index c71ad35..00f6326 100644
--- a/Dumper.pm
+++ b/Dumper.pm
@@ -10,16 +10,15 @@ package Data::Dumper;
BEGIN {
-    $VERSION = '2.161'; # Don't forget to set version and release
+    $VERSION = '2.167'; # Don't forget to set version and release
}          # date in POD below!

#$| = 1;

use 5.006_001;
require Exporter;
-requires overload;
-use Carp;
+use Carp ();

BEGIN {
    @ISA = qw(Exporter);
@@ -70,7 +69,7 @@ $Maxrecurse = 1000      unless defined $Maxrecurse;
    my($c, $v, $n) = @_; 

    -    croak "Usage:  PACKAGE->new(ARRAYREF, [ARRAYREF])"
+    Carp::croak("Usage:  PACKAGE->new(ARRAYREF, [ARRAYREF])")
    unless (defined($v) && (ref($v) eq 'ARRAY'));
    $n = [] unless (defined($n) && (ref($n) eq 'ARRAY'));

@@ -170,11 +169,11 @@ sub Seen {
        }
    else {
-          carp "Only refs supported, ignoring non-ref item \$$k";
+          Carp::carp("Only refs supported, ignoring non-ref item \$$k");
    }
    return $s;
@@ -195,7 +194,7 @@ sub Values {
        }
    return $s;
@@ -195,7 +194,7 @@ sub Values {
        }
    return $s;
    else {
-        croak "Argument to Values, if provided, must be array ref";
+        Carp::croak("Argument to Values, if provided, must be array ref");
    }
}
@@ -214,7 +213,7 @@ sub Names {
    return $s;
  }
  else {
-  croak "Argument to Names, if provided, must be array ref";
+  Carp::croak("Argument to Names, if provided, must be array ref");
  }
}
else {
@@ -227,7 +226,6 @@ sub DESTROY {}
sub Dump {
  return &Dumpxs
  unless $Data::Dumper::Useperl || (ref($_[0]) && $_[0]->{useperl})
-  || $Data::Dumper::Deparse || (ref($_[0]) && $_[0]->{deparse})
+  || $Data::Dumper::Deparse
    # Use pure perl version on earlier releases on EBCDIC platforms
    || (! $IS_ASCII && &$] lt 5.021_010);
@@ -439,7 +437,7 @@ sub _dump {
    if (ref($s->{sortkeys}) eq 'CODE') {
      $keys = $s->{sortkeys}($val);
      unless (ref($keys) eq 'ARRAY') {
-        carp "Sortkeys subroutine did not return ARRAYREF";
+        Carp::carp("Sortkeys subroutine did not return ARRAYREF");
        $keys = [];
      }
    }
@@ -487,16 +485,16 @@ sub _dump {
      require B::Deparse;
      my $sub = 'sub ' . (B::Deparse->new)->coderef2text($val);
      $pad = $s->{sep} . $s->{pad} . $s->{apad} . $s->{xpad} x ($s->{level} - 1);
-      $sub =~ s/
+      $sub =~ s/\n/$pad/gs;
      $out .= $sub;
    } else {
      $out = 'sub { "DUMMY" }';
-    carp "Encountered CODE ref, using dummy placeholder" if $s->{purity};
+    Carp::carp("Encountered CODE ref, using dummy placeholder") if $s->{purity};
    }
  }
else {
-  croak "Can't handle '$realtype' type";
+  Carp::croak("Can't handle '$realtype' type");
  }
  if ($realpack and !$no_bless) { # we have a blessed ref
@@ -1212,9 +1210,10 @@ $Data::Dumper::Deparse I<or> $I<OBJ>->Deparse(I<[NEWVAL]>)
Open Source Used In Intersight Kubernetes Service 1.0.15 5923
Can be set to a boolean value to control whether code references are
turned into perl source code. If set to a true value, C<B::Deparse>
will be used to get the source of the code reference. Using this option
will force using the Perl implementation of the dumper, since the fast
-XSUB implementation doesn't support it.

+will be used to get the source of the code reference. In older versions,
+using this option imposed a significant performance penalty when dumping
+parts of a data structure other than code references, but that is no
+longer the case.

Caution: use this option only if you know that your coderefs will be
properly reconstructed by C<B::Deparse>.

@@ -1435,15 +1434,9 @@ the C<Deparse> flag), an anonymous subroutine that
contains the string "DUMMY" will be inserted in its place, and a warning
will be printed if C<Purity> is set. You can C<eval> the result, but bear
in mind that the anonymous sub that gets created is just a placeholder.
-Someday, perl will have a switch to cache-on-demand the string
-representation of a compiled piece of code, I hope. If you have prior
-knowledge of all the code refs that your data structures are likely
-to have, you can use the C<Seen> method to pre-seed the internal reference
-table and make the dumped output point to them, instead. See L</EXAMPLES>
-above.
-
-The C<Deparse> flag makes Dump() run slower, since the XSUB
-implementation does not support it.

+Even using the C<Deparse> flag will in some cases produce results that
+behave differently after being passed to C<eval>; see the documentation
+for L<B::Deparse>.

SCALAR objects have the weirdest looking C<bless> workaround.

@@ -1466,13 +1459,13 @@ be to use the C<Sortkeys> filter of Data::Dumper.

Gurusamy Sarathy       gsar@activestate.com

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=head1 VERSION

-Version 2.161  (July 11 2016)
+Version 2.167  (January 4 2017)

=head1 SEE ALSO

diff --git a/Dumper.xs b/Dumper.xs
typedef struct {
    int useqq;
    int use_sparse_seen_hash;
    int trailingcomma;
    + int deparse;
} Style;

static STRLEN num_q (const char *s, STRLEN slen);

esc_q_utf8(pTHX_ SV* sv, const char *src, STRLEN slen, I32 do_utf8, I32 useqq)
    UV k;

    if (do_utf8
        - && ! isASCII(*U8*)s)
        + && ! isASCII(*s)
        /* Exclude non-ASCII low ordinal controls. This should be
         * optimized out by the compiler on ASCII platforms; if not
         * could wrap it in a #ifdef EBCDIC, but better to avoid
         @@ -387,11 +388,11 @@ esc_q_utf8(pTHX_SV* sv, const char *src, STRLEN slen, I32 do_utf8, I32 useqq)
            increment = (k == 0 && *s != '\0') ? 1 : UTF8SKIP(s);

#if PERL_VERSION < 10
    - sprintf(r, "%x{"UVxf}"", k);
    + sprintf(r, "%x{" UVxf "}"", k);
    r += strlen(r);
    /* my_sprintf is not supported by ppport.h */
#else
    - r = r + my_sprintf(r, "%x{"UVxf}"", k);
    + r = r + my_sprintf(r, "%x{" UVxf "}"", k);
#endif
    continue;
}

sv_x(pTHX_SV *sv, const char *str, STRLEN len, I32 n)
    return sv;
}

+static SV *
+deparsed_output(pTHX_SV *val)
+{ 
    + SV *text;
    + int n;
    + dSP;
    + 
    + /* This is passed to load_module(), which decrements its ref count and
    + * modifies it (so we also can't reuse it below) */
    + SV *pkg = newSVpvs("B::Deparse");
+ load_module(PERL_LOADMOD_NOIMPORT, pkg, 0);
+ SAVETMPS;
+ PUSHMARK(SP);
+ mXPUSHs(newSVpvs("B::Deparse"));
+ PUTBACK;
+ n = call_method("new", G_SCALAR);
+ SPAGAIN;
+ if (n != 1) {
    croak("B::Deparse->new returned %d items, but expected exactly 1", n);
    }
+ PUSHMARK(SP - n);
+ XPUSHs(val);
+ PUTBACK;
+ n = call_method("coderef2text", G_SCALAR);
+ SPAGAIN;
+ if (n != 1) {
    croak("$b_deparse->coderef2text returned %d items, but expected exactly 1", n);
    }
+ text = POPs;
+ SvREFCNT_inc(text); /* the caller will mortalise this */
+ FREETMPS;
+ PUTBACK;
+ return text;
+
*/
* This ought to be split into smaller functions. (it is one long function since *
* it exactly parallels the perl version, which was one long thing for
@@ -565,14 +613,14 @@ DD_dump(pTHX_SV *val, const char *name, STRLEN namelen, SV *retval, HV *
seenhv,
    i = perl_call_method(SvPVX_const(style->freezer), G_EVAL|G_VOID|G_DISCARD);
    SPAGAIN;
    if (SvTRUE(ERRSV))
-    -warn("WARNING(Freezer method call failed): %"SVf", ERRSV);
+    +warn("WARNING(Freezer method call failed): %" SVf, ERRSV);
        PUTBACK; FREETMPS; LEAVE;
ival = SvRV(val);
realtype = SvTYPE(ival);
#ifdef DD_USE_OLD_ID_FORMAT
    idlen = my_snprintf(id, sizeof(id), "0x"UVxf, PTR2UV(ival));
#else
    id_buffer = PTR2UV(ival);
    idlen = sizeof(id_buffer);
#endif

@ @ -630,7 +678,7 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV
    #ifdef DD_USE_OLD_ID_FORMAT
        warn("ref name not found for %s", id);
    #else
        warn("ref name not found for 0x" UVxf, PTR2UV(ival));
    #endif
    return 0;
}

@ @ -848,10 +896,10 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV
    if (style->indent >= 3) {
    }

@ @ -886,7 +934,6 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV
    if (style->indent >= 3) {
    }

@ @ -976,6 +1023,7 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV
    char *nkey_buffer = NULL;
    char *key;
    SV* keysv;

STLEN klen;
STLEN keylen;
STLEN nlen;
bool do_utf8 = FALSE;
@@ -1029,7 +1077,7 @@ DD_dump(pTHX_ SV *val, const char *name, STLEN namelen, SV *retval, HV
*seenhv,
           if (style->quotekeys || key_needs_quote(key, keylen)) {
               if (do_utf8 || style->useqq) {
                   STLEN ocur = SvCUR(retval);
-                   nlen = esc_q_utf8(aTHX_ retval, key, klen, do_utf8, style->useqq);
+                   klen = nlen = esc_q_utf8(aTHX_ retval, key, klen, do_utf8, style->useqq);
                   nkey = SvPVX(retval) + ocur;
               }
           } else {
@@ -1095,9 +1143,41 @@ DD_dump(pTHX_ SV *val, const char *name, STLEN namelen, SV *retval, HV
            if (style->purity)
            warn("Encountered CODE ref, using dummy placeholder");
+        if (style->deparse) {
+            SV *deparsed = sv_2mortal(deparsed_output(aTHX_ val));
+            SV *fullpad = sv_2mortal(newSVsv(style->sep));
+            const char *p;
+            STLEN plen;
+            I32 i;
+
+            sv_catsv(fullpad, style->pad);
+            sv_catsv(fullpad, apad);
+            for (i = 0; i < level; i++) {
+                sv_catsv(fullpad, style->xpad);
+            }
+
+            sv_catpvs(retval, "sub ");
+            p = SvPV(deparsed, plen);
+            while (plen > 0) {
+                const char *nl = (const char *) memchr(p, '\n', plen);
+                if (!nl) {
+                    sv_catpvn(retval, p, plen);
+                    break;
+                }
+                else {
+                    size_t n = nl - p;
+                    sv_catpvn(retval, p, n);
+                    sv_catsv(retval, fullpad);
+                    p += n + 1;
+                }
            }
        } else {
            ...
plen -= n + 1;
}
}

else {
    sv_catpvs(retval, "sub \"DUMMY\" ");
    if (style->purity)
        warn("Encountered CODE ref, using dummy placeholder");
}
}

else {
    warn("cannot handle ref type %d", (int)realtype);
}

if (namelen) {
    if (DD_is_integer(val)) {
        STRLEN len;
        if (SvIsUV(val))
            len = my_snprintf(tmpbuf, sizeof(tmpbuf), "%U" UVuf, SvUV(val));
        else
            len = my_snprintf(tmpbuf, sizeof(tmpbuf), "%I" IVdf, SvIV(val));
        if (SvPOK(val)) {
            /* Need to check to see if this is a string such as " 0".
             * I'm assuming from sprintf isn't going to clash with utf8. */
            if ((svp = hv_fetch(hv, "seen", 4, FALSE)) && SvROK(*svp))
                seenhv = (HV*)SvRV(*svp);
            else
                style.use_sparse_seen_hash = 1;
        }
    }
}}
+if ((svp = hv_fetch(hv, "todump", FALSE)) && SvROK(*svp))
    todumpav = (AV*)SvRV(*svp);
-if ((svp = hv_fetch(hv, "names", 5, FALSE)) && SvROK(*svp))
+if ((svp = hv_fetchs(hv, "names", FALSE)) && SvROK(*svp))
    namesav = (AV*)SvRV(*svp);
-if ((svp = hv_fetch(hv, "indent", 6, FALSE)))
+if ((svp = hv_fetchs(hv, "indent", FALSE)))
    style.indent = SvIV(*svp);
-if ((svp = hv_fetch(hv, "purity", 6, FALSE)))
+if ((svp = hv_fetchs(hv, "purity", FALSE)))
    style.purity = SvIV(*svp);
-if ((svp = hv_fetch(hv, "terse", 5, FALSE)))
+if ((svp = hv_fetchs(hv, "terse", FALSE)))
    terse = SvTRUE(*svp);
-if ((svp = hv_fetch(hv, "useqq", 5, FALSE)))
+if ((svp = hv_fetchs(hv, "useqq", FALSE)))
    style.useqq = SvTRUE(*svp);
-if ((svp = hv_fetch(hv, "pad", 3, FALSE)))
+if ((svp = hv_fetchs(hv, "pad", FALSE)))
    style.pad = *svp;
-if ((svp = hv_fetch(hv, "xpad", 4, FALSE)))
+if ((svp = hv_fetchs(hv, "xpad", FALSE)))
    style.xpad = *svp;
-if ((svp = hv_fetch(hv, "apad", 4, FALSE)))
+if ((svp = hv_fetchs(hv, "apad", FALSE)))
    apad = *svp;
-if ((svp = hv_fetch(hv, "sep", 3, FALSE)))
+if ((svp = hv_fetchs(hv, "sep", FALSE)))
    style.sep = *svp;
-if ((svp = hv_fetch(hv, "pair", 4, FALSE)))
+if ((svp = hv_fetchs(hv, "pair", FALSE)))
    style.pair = *svp;
-if ((svp = hv_fetch(hv, "varname", 7, FALSE)))
+if ((svp = hv_fetchs(hv, "varname", FALSE)))
    varname = *svp;
-if ((svp = hv_fetch(hv, "freezer", 7, FALSE)))
+if ((svp = hv_fetchs(hv, "freezer", FALSE)))
    style.freezer = *svp;
-if ((svp = hv_fetch(hv, "toaster", 7, FALSE)))
+if ((svp = hv_fetchs(hv, "toaster", FALSE)))
    style.toaster = *svp;
-if ((svp = hv_fetch(hv, "deepcopy", 8, FALSE)))
+if ((svp = hv_fetchs(hv, "deepcopy", FALSE)))
    style.deepcopy = SvTRUE(*svp);
-if ((svp = hv_fetch(hv, "quotekeys", 9, FALSE)))
+if ((svp = hv_fetchs(hv, "quotekeys", FALSE)))
    style.quotekeys = SvTRUE(*svp);
    - if ((svp = hv_fetch(hv, "trailingcomma", 13, FALSE)))
+    if ((svp = hv_fetchs(hv, "trailingcomma", FALSE)))
        style.trailingcomma = SvTRUE(*svp);
-if ((svp = hv_fetch(hv, "bless", 5, FALSE)))
+    if ((svp = hv_fetchs(hv, "deparse", FALSE)))
        style.deparse = SvTRUE(*svp);
+    if ((svp = hv_fetchs(hv, "bless", FALSE)))
        style.bless = *svp;
-if ((svp = hv_fetch(hv, "maxdepth", 8, FALSE)))
+    if ((svp = hv_fetchs(hv, "maxdepth", FALSE)))
        style.maxdepth = SvIV(*svp);
-if ((svp = hv_fetch(hv, "maxrecurse", 10, FALSE)))
+    if ((svp = hv_fetchs(hv, "maxrecurse", FALSE)))
        style.maxrecurse = SvIV(*svp);
-if ((svp = hv_fetch(hv, "sortkeys", 8, FALSE))) {
+    if ((svp = hv_fetchs(hv, "sortkeys", FALSE))) {
        SV *sv = *svp;
        if (! SvTRUE(sv))
            style.sortkeys = NULL;
@@ -1525,9 +1607,10 @@ Data_Dumper_Dumpxs(href, ...)
        } else {
            STRLEN nchars;
-            sv_setpvn(name, ",", 1);
+            sv_setpvs(name, ",");
            sv_catsv(name, varname);
-            nchars = my_snprintf(tmpbuf, sizeof(tmpbuf), "%s", (IV)(i+1));
+            nchars = my_snprintf(tmpbuf, sizeof(tmpbuf), "%d", (IV)(i+1));
            sv_catpvn(name, tmpbuf, nchars);
@@ -1575,7 +1658,7 @@ Data_Dumper_Dumpxs(href, ...)
            sv_catpvs(retval, ";");
            sv_catsv(retval, style.sep);
        }
-        sv_setpvn(valstr, ",", 0);
+        SvPVCLEAR(valstr);
        if (gimme == G_ARRAY) {
            XPUSHs(sv_2mortal(retval));
            if (i < imax)/* not the last time thro ? */
            diff --git a/t/bugs.t b/t/bugs.t
index a440b0a..5db82da 100644
--- a/t/bugs.t
+++ b/t/bugs.t
@@ -12,7 +12,7 @@ BEGIN {
}
use Data::Dumper;

{ @@ -144,4 +144,39 @@ SKIP: {
    &$tests;
 }

+{ # https://rt.perl.org/Ticket/Display.html?id=128524
 + my $want;
 + my $runtime = "runtime";
 + my $requires = "requires";
 + utf8::upgrade(my $runtime = $runtime);
 + utf8::upgrade(my $requires = $requires);
 + for my $run ($runtime, $runtime) {
 +   for my $req ($requires, $requires) {
 +     my $data = { $run => { $req => { foo => "bar" } } };
 +     local $Data::Dumper::Useperl = 1;
 +     # we want them all the same
 +     defined $want or $want = Dumper($data);
 +     is(Dumper( $data ), $want, "utf-8 indents");
 +     SKIP:
 +       { defined &Data::Dumper::Dumpxs
 +         or skip "No XS available", 1;
 +         local $Data::Dumper::Useperl = 0;
 +         is(Dumper( $data ), $want, "utf8-indents");
 +       }
 +   }
 + }
 +
 +# RT#130487 - stack management bug in XS deparse
 +SKIP: {
 +   skip "No XS available", 1 if !defined &Data::Dumper::Dumpxs;
 +   sub rt130487_args { 0 + @_ }
 +   my $code = sub {};
 +   local $Data::Dumper::Useperl = 0;
 +   local $Data::Dumper::Deparse = 1;
 +   my $got = rt130487_args( Dumper($code) );
 +   ist($got, 1, "stack management in XS deparse works, rt 130487");
 + }
 +
 + # EOF
use strict;

use Data::Dumper;
-use Test::More tests => 8;
+use Test::More tests => 16;
use lib qw( ./t/lib );
use Testing qw( _dumptostr );

-use perl;
+for my $useperl (0, 1) {
  local $Data::Dumper::Useperl = $useperl;
  my ($obj, %dumps, $deparse, $starting);
  use strict;
  my $struct = { foo => "bar'nbaz", quux => sub { "fleem" } };
@@ -46,11 +48,11 @@ note("\$Data::Dumper::Deparse and Deparse()")
  $dumps{'objzero'} = _dumptostr($obj);

   is($dumps{'noprev'}, $dumps{'dddzero'},
-    "No previous setting and \$Data::Dumper::Deparse = 0 are equivalent");
+    "No previous setting and \$Data::Dumper::Deparse = 0 are equivalent (useperl=$useperl)";
   is($dumps{'noprev'}, $dumps{'objempty'},
-    "No previous setting and Deparse() are equivalent");
+    "No previous setting and Deparse() are equivalent (useperl=$useperl)";
   is($dumps{'noprev'}, $dumps{'objzero'},
-    "No previous setting and Deparse(0) are equivalent");
+    "No previous setting and Deparse(0) are equivalent (useperl=$useperl)";

  local $Data::Dumper::Deparse = 1;
  $obj = Data::Dumper->new( [ $struct ] );
@@ -62,19 +64,19 @@ note("\$Data::Dumper::Deparse and Deparse()")
  $dumps{'objone'} = _dumptostr($obj);

   is($dumps{'dddtrue'}, $dumps{'objjone'},
-    "\$Data::Dumper::Deparse = 1 and Deparse(1) are equivalent");
+    "\$Data::Dumper::Deparse = 1 and Deparse(1) are equivalent (useperl=$useperl)";
   isnt($dumps{'dddzero'}, $dumps{'dddtrue'},
-    "\$Data::Dumper::Deparse = 0 differs from \$Data::Dumper::Deparse = 1");
+    "\$Data::Dumper::Deparse = 0 differs from \$Data::Dumper::Deparse = 1 (useperl=$useperl)";

 like($dumps{'dddzero'},

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qr/quux.*?sub.*?DUMMY/s,
- "\$Data::Dumper::Deparse = 0 reports DUMMY instead of deparsing coderef");
+ "\$Data::Dumper::Deparse = 0 reports DUMMY instead of deparsing coderef (useperl=$useperl)");
unlike($dumps{'dddtrue'},
qr/quux.*?sub.*?DUMMY/s,
- "\$Data::Dumper::Deparse = 1 does not report DUMMY");
+ "\$Data::Dumper::Deparse = 1 does not report DUMMY (useperl=$useperl)");
like($dumps{'dddtrue'},
qr/quux.*?sub.*?use\ss\strict.*?fleem/s,
- "\$Data::Dumper::Deparse = 1 deparses coderef");
+ "\$Data::Dumper::Deparse = 1 deparses coderef (useperl=$useperl)");
}

--
2.9.3

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=head1 NAME

Data::Dumper - stringified perl data structures, suitable for both printing and C<eval>

=head1 SYNOPSIS

use Data::Dumper;

# simple procedural interface
print Dumper($foo, $bar);

# extended usage with names
print Data::Dumper->Dump([$foo, $bar], [qw(foo *ary)]);

# configuration variables
{
  local $Data::Dumper::Purity = 1;
  eval Data::Dumper->Dump([$foo, $bar], [qw(foo *ary)]);
}

# OO usage
$dd = Data::Dumper->new([$foo, $bar], [qw(foo *ary)]);
... print $dd->Dump;
... $dd->Purity(1)->Terse(1)->Deepcopy(1);
  eval $dd->Dump;
Given a list of scalars or reference variables, writes out their contents in perl syntax. The references can also be objects. The content of each variable is output in a single Perl statement. Handles self-referential structures correctly.

The return value can be C<eval>ed to get back an identical copy of the original reference structure. (Please do consider the security implications of eval'ing code from untrusted sources!)

Any references that are the same as one of those passed in will be named C<$VAR>n (where n is a numeric suffix), and other duplicate references to substructures within C<$VAR>n will be appropriately labeled using arrow notation. You can specify names for individual values to be dumped if you use the C<Dump()> method, or you can change the default C<$VAR> prefix to something else. See C<$Data::Dumper::Varname> and C<$Data::Dumper::Terse> below.

The default output of self-referential structures can be C<eval>ed, but the nested references to C<$VAR>n will be undefined, since a recursive structure cannot be constructed using one Perl statement. You should set the C<Purity> flag to 1 to get additional statements that will correctly fill in these references. Moreover, if C<eval>ed when strictures are in effect, you need to ensure that any variables it accesses are previously declared.

In the extended usage form, the references to be dumped can be given user-specified names. If a name begins with a C<*>, the output will describe the dereferenced type of the supplied reference for hashes and arrays, and coderefs. Output of names will be avoided where possible if the C<Terse> flag is set.

In many cases, methods that are used to set the internal state of the object will return the object itself, so method calls can be conveniently chained together.

Several styles of output are possible, all controlled by setting the C<Indent> flag. See L<Configuration Variables or Methods> below for details.

=head2 Methods

=over 4

=item I<PACKAGE>-new(I<ARRAYREF [>, I<ARRAYREF]>)

Returns a newly created C<Data::Dumper> object. The first argument is an anonymous array of values to be dumped. The optional second argument is an anonymous array of names for the values. The names need not have a leading C<$> sign, and must be comprised of alphanumeric characters. You can begin a name with a C<*?> to specify that the dereferenced type must be dumped instead of the reference itself, for ARRAY and HASH references.

The prefix specified by C<$Data::Dumper::Varname> will be used with a numeric suffix if the name for a value is undefined.

Data::Dumper will catalog all references encountered while dumping the values. Cross-references (in the form of names of substructures in perl syntax) will be inserted at all possible points, preserving any structural interdependencies in the original set of values. Structure traversal is depth-first, and proceeds in order from the first supplied value to the last.

=item I<$OBJ>->Dump  I<or>  I<PACKAGE>->Dump(I<ARRAYREF [>, I<ARRAYREF]>)

Returns the stringified form of the values stored in the object (preserving the order in which they were supplied to C<new>), subject to the configuration options below. In a list context, it returns a list of strings corresponding to the supplied values.

The second form, for convenience, simply calls the C<new> method on its arguments before dumping the object immediately.

=item I<$OBJ>->Seen(I<[HASHREF]>)

Queries or adds to the internal table of already encountered references. You must use C<Reset> to explicitly clear the table if needed. Such references are not dumped; instead, their names are inserted wherever they are encountered subsequently. This is useful especially for properly dumping subroutine references.

Expects an anonymous hash of name => value pairs. Same rules apply for names as in C<new>. If no argument is supplied, will return the "seen" list of name => value pairs, in a list context. Otherwise, returns the object itself.

=item I<$OBJ>->Values(I<[ARRAYREF]>)

Queries or replaces the internal array of values that will be dumped. When called without arguments, returns the values as a list. When called with a reference to an array of replacement values, returns the object itself. When called with any other type of argument, dies.
Queries or replaces the internal array of user supplied names for the values that will be dumped. When called without arguments, returns the names. When called with an array of replacement names, returns the object itself. If the number of replacement names exceeds the number of values to be named, the excess names will not be used. If the number of replacement names falls short of the number of values to be named, the list of replacement names will be exhausted and remaining values will not be renamed. When called with any other type of argument, dies.

Clears the internal table of "seen" references and returns the object itself.

Returns the stringified form of the values in the list, subject to the configuration options below. The values will be named \$VAR\$n in the output, where \$n\$ is a numeric suffix. Will return a list of strings in a list context.

Several configuration variables can be used to control the kind of output generated when using the procedural interface. These variables are usually \$local\$ized in a block so that other parts of the code are not affected by the change.

These variables determine the default state of the object created by calling the \$new\$ method, but cannot be used to alter the state of the object thereafter. The equivalent method names should be used instead to query or set the internal state of the object.

The method forms return the object itself when called with arguments, so that they can be chained together nicely.
$Data::Dumper::Indent I<\or> I<$OBJ>-\>Indent(I<\[NEWVAL]\>)

Controls the style of indentation. It can be set to 0, 1, 2 or 3. Style 0 spews output without any newlines, indentation, or spaces between list items. It is the most compact format possible that can still be called valid perl. Style 1 outputs a readable form with newlines but no fancy indentation (each level in the structure is simply indented by a fixed amount of whitespace). Style 2 (the default) outputs a very readable form which takes into account the length of hash keys (so the hash value lines up). Style 3 is like style 2, but also annotates the elements of arrays with their index (but the comment is on its own line, so array output consumes twice the number of lines). Style 2 is the default.

$Data::Dumper::Trailingcomma I<\or> I<$OBJ>-\>Trailingcomma(I<\[NEWVAL]\>)

Controls whether a comma is added after the last element of an array or hash. Even when true, no comma is added between the last element of an array or hash and a closing bracket when they appear on the same line. The default is false.

$Data::Dumper::Purity I<\or> I<$OBJ>-\>Purity(I<\[NEWVAL]\>)

Controls the degree to which the output can be C<eval>ed to recreate the supplied reference structures. Setting it to 1 will output additional perl statements that will correctly recreate nested references. The default is 0.

$Data::Dumper::Pad I<\or> I<$OBJ>-\>Pad(I<\[NEWVAL]\>)

Specifies the string that will be prefixed to every line of the output. Empty string by default.

$Data::Dumper::Varname I<\or> I<$OBJ>-\>Varname(I<\[NEWVAL]\>)

Contains the prefix to use for tagging variable names in the output. The default is "VAR".
$Data::Dumper::Useqq  I<or>  I<$OBJ>-&gt;Useqq(I<&lt;\[NEWVAL\]&gt;)

When set, enables the use of double quotes for representing string values. Whitespace other than space will be represented as C<![\n\t\r]>, "unsafe" characters will be backslashed, and unprintable characters will be output as quoted octal integers. The default is 0.

=item *

$Data::Dumper::Terse  I<or>  I<$OBJ>-&gt;Terse(I<&lt;\[NEWVAL\]&gt;)

When set, Data::Dumper will emit single, non-self-referential values as atoms/terms rather than statements. This means that the C&lt;$VAR&gt;I&lt;n&gt; names will be avoided where possible, but be advised that such output may not always be parseable by C&lt;eval&gt;.

=item *

$Data::Dumper::Freezer  I<or>  $I<OBJ>-&gt;Freezer(I<&lt;\[NEWVAL\]&gt;)

Can be set to a method name, or to an empty string to disable the feature. Data::Dumper will invoke that method via the object before attempting to stringify it. This method can alter the contents of the object (if, for instance, it contains data allocated from C), and even rebless it in a different package. The client is responsible for making sure the specified method can be called via the object, and that the object ends up containing only perl data types after the method has been called. Defaults to an empty string.

If an object does not support the method specified (determined using UNIVERSAL::can()) then the call will be skipped. If the method dies a warning will be generated.

=item *

$Data::Dumper::Toaster  I<or>  $I<OBJ>-&gt;Toaster(I<&lt;\[NEWVAL\]&gt;)

Can be set to a method name, or to an empty string to disable the feature. Data::Dumper will emit a method call for any objects that are to be dumped using the syntax C&lt;bless(DATA, CLASS)-E&lt;gt;METHOD()&gt;. Note that this means that the method specified will have to perform any modifications required on the object (like creating new state within it, and/or reblessing it in a different package) and then return it. The client is responsible for making sure the method can be called via the object, and that it returns a valid object. Defaults to an empty string.

=item *
$Data::Dumper::Deepcopy I<or> $I<OBJ>-Deepcopy(I<NEWVAL>)

Can be set to a boolean value to enable deep copies of structures. Cross-referencing will then only be done when absolutely essential (i.e., to break reference cycles). Default is 0.

=item *

$Data::Dumper::Quotekeys I<or> $I<OBJ>-Quotekeys(I<NEWVAL>)

Can be set to a boolean value to control whether hash keys are quoted. A defined false value will avoid quoting hash keys when it looks like a simple string. Default is 1, which will always enclose hash keys in quotes.

=item *

$Data::Dumper::Bless I<or> $I<OBJ>-Bless(I<NEWVAL>)

Can be set to a string that specifies an alternative to the C<bless> builtin operator used to create objects. A function with the specified name should exist, and should accept the same arguments as the builtin. Default is C<bless>.

=item *

$Data::Dumper::Pair I<or> $I<OBJ>-Pair(I<NEWVAL>)

Can be set to a string that specifies the separator between hash keys and values. To dump nested hash, array and scalar values to JavaScript, use: C<$Data::Dumper::Pair = ' : '>. Implementing C<bless> in JavaScript is left as an exercise for the reader. A function with the specified name exists, and accepts the same arguments as the builtin. Default is C< =E<gt> >.

=item *

$Data::Dumper::Maxdepth I<or> $I<OBJ>-Maxdepth(I<NEWVAL>)

Can be set to a positive integer that specifies the depth beyond which we don't venture into a structure. Has no effect when C<Data::Dumper::Purity> is set. (Useful in debugger when we often don't want to see more than enough). Default is 0, which means there is no maximum depth.

=item *
$Data::Dumper::Maxrecurse $I<OBJ>-&gt;Maxrecurse(I&lt;NEWVAL&gt;)

Can be set to a positive integer that specifies the depth beyond which recursion into a structure will throw an exception. This is intended as a security measure to prevent perl running out of stack space when dumping an excessively deep structure. Can be set to 0 to remove the limit. Default is 1000.

=item *

$Data::Dumper::Useperl $I<OBJ>-&gt;Useperl(I&lt;NEWVAL&gt;)

Can be set to a boolean value which controls whether the pure Perl implementation of C<Data::Dumper> is used. The C<Data::Dumper> module is a dual implementation, with almost all functionality written in both pure Perl and also in XS ('C'). Since the XS version is much faster, it will always be used if possible. This option lets you override the default behavior, usually for testing purposes only. Default is 0, which means the XS implementation will be used if possible.

=item *

$Data::Dumper::Sortkeys $I<OBJ>-&gt;Sortkeys(I&lt;NEWVAL&gt;)

Can be set to a boolean value to control whether hash keys are dumped in sorted order. A true value will cause the keys of all hashes to be dumped in Perl's default sort order. Can also be set to a subroutine reference which will be called for each hash that is dumped. In this case C<Data::Dumper> will call the subroutine once for each hash, passing it the reference of the hash. The purpose of the subroutine is to return a reference to an array of the keys that will be dumped, in the order that they should be dumped. Using this feature, you can control both the order of the keys, and which keys are actually used. In other words, this subroutine acts as a filter by which you can exclude certain keys from being dumped. Default is 0, which means that hash keys are not sorted.

=item *

$Data::Dumper::Deparse $I<OBJ>-&gt;Deparse(I&lt;NEWVAL&gt;)

Can be set to a boolean value to control whether code references are turned into perl source code. If set to a true value, C<B::Deparse> will be used to get the source of the code reference. Using this option will force using the Perl implementation of the dumper, since the fast XSUB implementation doesn't support it.
Caution: use this option only if you know that your coderefs will be properly reconstructed by C<B::Deparse>.

=item *

STDOUT::Deparse::Sparseseen or $I<OBJ)->Sparseseen(I<NEWVAL>)

By default, Data::Dumper builds up the "seen" hash of scalars that it has encountered during serialization. This is very expensive. This seen hash is necessary to support and even just detect circular references. It is exposed to the user via the C<Seen()> call both for writing and reading.

If you, as a user, do not need explicit access to the "seen" hash, then you can set the C<Sparseseen> option to allow Data::Dumper to eschew building the "seen" hash for scalars that are known not to possess more than one reference. This speeds up serialization considerably if you use the XS implementation.

Note: If you turn on C<Sparseseen>, then you must not rely on the content of the seen hash since its contents will be an implementation detail!

=back

=head2 Exports

=over 4

=item Dumper

=back

=head1 EXAMPLES

Run these code snippets to get a quick feel for the behavior of this module. When you are through with these examples, you may want to add or change the various configuration variables described above, to see their behavior. (See the testsuite in the Data::Dumper distribution for more examples.)

use Data::Dumper;

package Foo;
sub new {bless {'a' => 1, 'b' => sub { return "foo" }}, $_[0];}

package Fuz;                # a weird REF-REF-SCALAR object
sub new {bless \$_ = \'fu\z', \$_[0]};

package main;
$foo = Foo->new;
$fuz = Fuz->new;
$boo = [ 1, [], "abcd", \$foo,
        {1 => 'a', 023 => 'b', 0x45 => 'c'},
        \p\q\r", $foo, $fuz];

########
# simple usage
########

$bar = eval(Dumper($boo));
print($@) if $@;
print Dumper($boo), Dumper($bar);  # pretty print (no array indices)

$Data::Dumper::Terse = 1;       # don't output names where feasible
$Data::Dumper::Indent = 0;      # turn off all pretty print
print Dumper($boo), "\n";

$Data::Dumper::Indent = 1;       # mild pretty print
print Dumper($boo);

$Data::Dumper::Indent = 3;       # pretty print with array indices
print Dumper($boo);

$Data::Dumper::Useqq = 1;        # print strings in double quotes
print Dumper($boo);

$Data::Dumper::Pair = " : ";  # specify hash key/value separator
print Dumper($boo);

########
# recursive structures
########

@c = (\'c\');
$sc = \@c;
$sb = [ ];
$sa = [1, $sb, $sc];
$sb->{a} = $sa;
$sb->{b} = $sa->[1];
$sb->{c} = $sa->[2];
print Data::Dumper->Dump([$sa,$sb,$sc], [qw(a b c)]);
$Data::Dumper::Purity = 1;  # fill in the holes for eval
print Data::Dumper->Dump([$a, $b], [qw(*a b)]);  # print as @a
print Data::Dumper->Dump([$b, $a], [qw(*b a)]);  # print as %b

$Data::Dumper::Deepcopy = 1;  # avoid cross-refs
print Data::Dumper->Dump([$b, $a], [qw(*b a)]);

$Data::Dumper::Purity = 0;  # avoid cross-refs
print Data::Dumper->Dump([$b, $a], [qw(*b a)]);

########
# deep structures
########

$a = "pearl";
$b = [$a ];
$c = { 'b' => $b };  
$d = [$c ];
$e = { 'd' => $d };  
$f = { 'e' => $e };  
print Data::Dumper->Dump([$f], [qw(f)]);

$Data::Dumper::Maxdepth = 3;  # no deeper than 3 refs down
print Data::Dumper->Dump([$f], [qw(f)]);

########
# object-oriented usage
########

$d = Data::Dumper->new([$a,$b], [qw(a b)]);
$d->Seen({'*c' => $c});  # stash a ref without printing it
$d->Indent(3);
print $d->Dump;
$d->Reset->Purity(0);  # empty the seen cache
print join "----\n", $d->Dump;

########
# persistence
########

package Foo;
sub new { bless { state => 'awake' }, shift }
sub Freeze {
  my $s = shift;
package main;
use Data::Dumper;
$a = Foo->new;
$b = Data::Dumper->new([$a], ['c']);
$b->Freezer('Freeze');
$b->Toaster('Thaw');
$c = $b->Dump;
print $c;
$d = eval $c;
print Data::Dumper->Dump([$d], ['d']);

########
# symbol substitution (useful for recreating CODE refs)
########
sub foo { print "foo speaking\n" }
*other = \&foo;
$bar = [ \&other ];
$d = Data::Dumper->new({\&other,$bar},{"other","bar"});
$d->Seen({ "foo" => \&foo });
print $d->Dump;

########
# sorting and filtering hash keys
########

sub my_filter { cli

print STDERR "preparing to sleep\n";
$s->{state} = 'asleep';
return bless $s, 'Foo::ZZZ';
}

package Foo::ZZZ;
sub Thaw {
    my $s = shift;
    print STDERR "waking up\n";
    $s->{state} = 'awake';
    return bless $s, 'Foo';
}

package main;
use Data::Dumper;
$a = Foo->new;
$b = Data::Dumper->new([$a], ['c']);
$b->Freezer('Freeze');
$b->Toaster('Thaw');
$c = $b->Dump;
print $c;
$d = eval $c;
print Data::Dumper->Dump([$d], ['d']);

########
# symbol substitution (useful for recreating CODE refs)
########

sub foo { print "foo speaking\n" }
*other = \&foo;
$bar = [ \&other ];
$d = Data::Dumper->new({\&other,$bar},{"other","bar"});
$d->Seen({ "foo" => \&foo });
print $d->Dump;

########
# sorting and filtering hash keys
########

sub my_filter { cli

print STDERR "preparing to sleep\n";
$s->{state} = 'asleep';
return bless $s, 'Foo::ZZZ';
}
my ($hash) = @_;
# return an array ref containing the hash keys to dump
# in the order that you want them to be dumped
return [
# Sort the keys of %$foo in reverse numeric order
$hash eq $foo ? (sort {$b <=> $a} keys %$hash) :
# Only dump the odd number keys of %$bar
$hash eq $bar ? (grep {$_ % 2} keys %$hash) :
# Sort keys in default order for all other hashes
(sort keys %$hash)
];
}
=head1 BUGS
Due to limitations of Perl subroutine call semantics, you cannot pass an
array or hash. Prepend it with a C<\> to pass its reference instead. This
will be remedied in time, now that Perl has subroutine prototypes.
For now, you need to use the extended usage form, and prepend the
name with a C<*> to output it as a hash or array.
C<Data::Dumper> cheats with CODE references. If a code reference is
encountered in the structure being processed (and if you haven't set
the C<Deparse> flag), an anonymous subroutine that
contains the string '"DUMMY"' will be inserted in its place, and a warning
will be printed if C<Purity> is set. You can C<eval> the result, but bear
in mind that the anonymous sub that gets created is just a placeholder.
Someday, perl will have a switch to cache-on-demand the string
representation of a compiled piece of code, I hope. If you have prior
knowledge of all the code refs that your data structures are likely
to have, you can use the C<Seen> method to pre-seed the internal reference
table and make the dumped output point to them, instead. See L</EXAMPLES>
above.
The C<Deparse> flag makes Dump() run slower, since the XSUB
implementation does not support it.
SCALAR objects have the weirdest looking C<bless> workaround.
Pure Perl version of C<Data::Dumper> escapes UTF-8 strings correctly
only in Perl 5.8.0 and later.
=head2 NOTE
Starting from Perl 5.8.1 different runs of Perl will have different
ordering of hash keys. The change was done for greater security,
see L<perlsec/"Algorithmic Complexity Attacks">. This means that
different runs of Perl will have different Data::Dumper outputs if

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the data contains hashes. If you need to have identical Data::Dumper outputs from different runs of Perl, use the environment variable PERL_HASH_SEED, see L<perlrun/PERL_HASH_SEED>. Using this restores the old (platform-specific) ordering: an even prettier solution might be to use the C<Sortkeys> filter of Data::Dumper.

=head1 AUTHOR

Gurusamy Sarathy        gsar@activestate.com

Copyright (c) 1996-2016 Gurusamy Sarathy. All rights reserved. This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 VERSION

Version 2.161  (July 11 2016)

=head1 SEE ALSO

perl(1)

=cut

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
 **ppport.h -- Perl/Pollution/Portability Version 3.31

 Automatically created by Devel::PPPort running under perl 5.022001.

 Do NOT edit this file directly! -- Edit PPPort.pm.PL and the includes in parts/inc/ instead.

 Use 'perldoc ppport.h' to view the documentation below.

----------------------------------------------------------------------

 SKIP

 =pod

 =head1 NAME
=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help          show short help
--version       show version

--patch=file    write one patch file with changes
--copy=suffix   write changed copies with suffix
--diff=program use diff program and options

--compat-version=version provide compatibility with Perl version
--cplusplus     accept C++ comments

--quiet         don't output anything except fatal errors
--nodiag        don't show diagnostics
--nohints       don't show hints
--nochanges     don't suggest changes
--nofilter      don't filter input files

--strip         strip all script and doc functionality from ppport.h

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.20.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>. 

ppport.h - Perl/Pollution/Portability version 3.31
=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.
Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

In order for a Perl extension (XS) module to be as portable as possible
across differing versions of Perl itself, certain steps need to be taken.

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C/#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

#define NEED_function
#define NEED_variable

For a global function or variable (used in multiple source files), use:

#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
Note that you mustn't have more than one global request for the
same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>caller_cx()</td>
<td>NEED_caller_cx</td>
<td>NEED_caller_cx_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_module_GLOBAL</td>
</tr>
<tr>
<td>mg_findext()</td>
<td>NEED_mg_findext</td>
<td>NEED_mg_findext_GLOBAL</td>
</tr>
<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
</tr>
<tr>
<td>my_sprintf()</td>
<td>NEED_my_sprintf</td>
<td>NEED_my_sprintf_GLOBAL</td>
</tr>
<tr>
<td>my_strlcat()</td>
<td>NEED_my_strlcat</td>
<td>NEED_my_strlcat_GLOBAL</td>
</tr>
<tr>
<td>my_strlcpy()</td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpy_GLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
</tr>
<tr>
<td>newSV_type()</td>
<td>NEED_newSV_type</td>
<td>NEED_newSV_type_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_flags()</td>
<td>NEED_newSVpvn_flags</td>
<td>NEED_newSVpvn_flags_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_share()</td>
<td>NEED_newSVpvn_share</td>
<td>NEED_newSVpvn_share_GLOBAL</td>
</tr>
<tr>
<td>pv_display()</td>
<td>NEED_pv_display</td>
<td>NEED_pv_display_GLOBAL</td>
</tr>
<tr>
<td>pv_escape()</td>
<td>NEED_pv_escape</td>
<td>NEED_pv_escape_GLOBAL</td>
</tr>
<tr>
<td>pv_pretty()</td>
<td>NEED_pv_pretty</td>
<td>NEED_pv_pretty_GLOBAL</td>
</tr>
<tr>
<td>sv_2pv_flags()</td>
<td>NEED_sv_2pv_flags</td>
<td>NEED_sv_2pv_flags_GLOBAL</td>
</tr>
<tr>
<td>sv_2pvbyte()</td>
<td>NEED_sv_2pvbyte</td>
<td>NEED_sv_2pvbyte_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg()</td>
<td>NEED_sv_catpvf_mg</td>
<td>NEED_sv_catpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg_nocontext()</td>
<td>NEED_sv_catpvf_mg_nocontext</td>
<td>NEED_sv_catpvf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>sv_pvn_force_flags()</td>
<td>NEED_sv_pvn_force_flags</td>
<td>NEED_sv_pvn_force_flags_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg()</td>
<td>NEED_sv_setpvf_mg</td>
<td>NEED_sv_setpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg_nocontext()</td>
<td>NEED_sv_setpvf_mg_nocontext</td>
<td>NEED_sv_setpvf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>sv_unmagicext()</td>
<td>NEED_sv_unmagicext</td>
<td>NEED_sv_unmagicext_GLOBAL</td>
</tr>
<tr>
<td>vload_module()</td>
<td>NEED_vload_module</td>
<td>NEED_vload_module_GLOBAL</td>
</tr>
<tr>
<td>vnewSVpvf()</td>
<td>NEED_vnewSVpvf</td>
<td>NEED_vnewSVpvf_GLOBAL</td>
</tr>
<tr>
<td>warner()</td>
<td>NEED_warner</td>
<td>NEED_warner_GLOBAL</td>
</tr>
</tbody>
</table>

To avoid namespace conflicts, you can change the namespace of the
explicitly exported functions / variables using the C<DPPP_NAMESPACE>
macro. Just C+#define> the macro before including C<ppport.h>:

```
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>. 
The good thing is that most of the above can be checked by running `F<ppport.h>` on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether `F<ppport.h>` is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, `F<ppport.h>` can be run as a Perl script to check your source code. Simply say:

perl pppport.h

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

perl pppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions for changes, use:

perl pppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

perl pppport.h --diff="diff -C 10"

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

perl pppport.h --copy=.new

To display portability information for the C<newSVpvn> function, use:

perl pppport.h --api-info=newSVpvn
Since the argument to \texttt{--api-info} can be a regular expression, you can use

\begin{verbatim}
perl ppport.h --api-info=/\_nomg$/
\end{verbatim}

to display portability information for all \texttt{\_nomg} functions or

\begin{verbatim}
perl ppport.h --api-info=/./
\end{verbatim}

to display information for all known API elements.

=head1 BUGS

If this version of \texttt{ppport.h} is causing failure during the compilation of this module, please check if newer versions of either this module or \texttt{Devel::PPPort} are available on CPAN before sending a bug report.

If \texttt{ppport.h} was generated using the latest version of \texttt{Devel::PPPort} and is causing failure of this module, please file a bug report here: \url{https://github.com/mhx/Devel-PPPort/issues/}

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back
For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2013, Marcus Holland-Moritz.
Version 2.x, Copyright (C) 2001, Paul Marquess.
Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '\$\^RE\_TRIE\_MAXBUF\} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.31;

my %opt = (
  quiet => 0,
  diag  => 1,
  hints => 1,
  changes => 1,
  cplusplus => 0,
  filter => 1,
  strip  => 0,
  version => 0,
);

my($ppport) = $0 =~ /\[/w.]+$/;
my $LF = '(?:\r\n|\[\r\n\])';   # line feed
my $HS = "[ 	\]";             # horizontal whitespace

# Never use C comments in this file!
my $sccs = '/\.*';
my $sce  = '\*\?';
my $srcs = quotemeta $sccs;
my $srcce = quotemeta $sce;
eval {
require Getopt::Long;
Getopt::Long::GetOptions(\%opt, qw(
    help quiet diag! hints! changes! cplusplus strip version
    patch=s copy=s diff=s compat-version=s
    list-provided list-unsupported api-info=s
)) or usage();
}

if ($@ and grep /^-/,@ARGV) {
usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
die "Getopt::Long not found. Please don't use any options.
";
}

if ($opt{version}) {
    print "This is $0 $VERSION.
";
    exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
if ($@) {
    die "Invalid version number format: $opt{'compat-version'}\n";
}
if ($r != 5) {
    die "Only Perl 5 is supported\n" if $r != 5;
}
if ($v >= 1000 || $s >= 1000) {
    $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
}
else {
    $opt{'compat-version'} = 5;
}

my $API = map { /^(/w+)/[(^[^]*)([^]*)([^]*)([^]+)$/?
    ( $1 => {
        ($2                  ? ( base     => $2 ) : ()),
        ($3                  ? ( todo     => $3 ) : ()),
        (index($4, 'v') >= 0 ? ( varargs  => 1 ) : ()),
        (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
        (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()),
    )
} qw(
ASCII_TO_NEED|5.007001|n
AvFILLp|5.004050||p
AvFILL|||
BhkDISABLE|5.021008|

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PERL_PV_PRETTY_DUMP|5.009004||p
PERL_PV_PRETTY_ELLIPSES|5.010000||p
PERL_PV_PRETTY_LTGT|5.009004||p
PERL_PV_PRETTY_NOCLEAR|5.010000||p
PERL_PV_PRETTY_QUOTE|5.009004||p
PERL_PV_PRETTY_REGPROP|5.009004||p
PERL_QUAD_MAX|5.003070||p
PERL_QUAD_MIN|5.003070||p
PERL_REVISION|5.006000||p
PERL_SCAN_ALLOW_UNDERSCORES|5.007003||p
PERL_SCAN_DISALLOW_PREFIX|5.007003||p
PERL_SCAN_GREATER_THAN_UV_MAX|5.007003||p
PERL_SCAN_SILENT_ILLDIGIT|5.008001||p
PERL_SHORT_MAX|5.003070||p
PERL_SHORT_MIN|5.003070||p
PERL_SIGNALS_UNSsafe_FLAG|5.008001||p
PERL_SUBVERSION|5.006000||p
PERL_SYS_INIT3|5.006000|
PERL_SYS_INIT3|
PERL_SYS_TERM|5.021008|
PERL_UCHAR_MAX|5.003070||p
PERL_UCHAR_MIN|5.003070||p
PERL_UINT_MAX|5.003070||p
PERL_UINT_MIN|5.003070||p
PERL ULONG_MAX|5.003070||p
PERL ULONG_MIN|5.003070||p
PERL_UNUSED_ARG|5.009003||p
PERL_UNUSED_CONTEXT|5.009004||p
PERL_UNUSED_DECL|5.007002||p
PERL_UNUSED_VAR|5.007002||p
PERL_UQUAD_MAX|5.003070||p
PERL_UQUAD_MIN|5.003070||p
PERL_USE_GCC_BRACE_GROUPS|5.009004||p
PERL_USE_GCC_BRACE_GROUPS|5.009004||p
PERL_Ushort_MAX|5.003070||p
PERL_Ushort_MIN|5.003070||p
PERL_VERSION|5.006000||p
PL_DBsignal|5.005000||p
PL_DBsingle||pn
PL_DBsub||pn
PL_DBtrace||pn
PL_Sv|5.005000||p
PL_bufend|5.021008||p
PL_bufptr|5.021008||p
PL_check|5.006000|
PL_compiling|5.004050||p
PL_comppad_name|5.017004|
PL_comppad|5.008001|
PL_copline|5.021008||p
PL_curcop|5.004050||p
PL_curpad||5.005000|
PL_curstash|5.004050||p
PL_debstash|5.004050||p
PL_defgv|5.004050||p
PL_diehook|5.004050||p
PL_dirty|5.004050||p
PL_dowarn|||pn
PL_ergv|5.004050||p
PL_error_count|5.021008||p
PL_expect|5.021008||p
PL_hexdigit|5.005000||p
PLHints|5.005000||p
PL_in_my_stash|5.021008||p
PL_in_my|5.021008||p
PL_keyword_plugin|5.011002|
PL_last_in_gv||n
PL_laststatval|5.005000||p
PL_lex_state|5.021008||p
PL_lex_stuff|5.021008||p
PL_linestr|5.021008||p
PL_modglobal|5.005000||n
PL_na|5.004050||p
PL_no_modify|5.006000||p
PL_ofsgv||n
PL_opfreehook|5.011000||n
PL_parser|5.009005||p
PL_peep|5.007003||n
PL_perl_destruct_level|5.004050||p
PL_perldb|5.004050||p
PL_ppaddr|5.006000||p
PL_ppeepp|5.013005||n
PL_rsfp_filters|5.021008||p
PL_rsfp|5.021008||p
PL_rs||n
PL_signals|5.008001||p
PL_stack_base|5.004050||p
PL_stack_sp|5.004050||p
PL_statcache|5.005000||p
PL_stdingv|5.004050||p
PL_sv_arenaroot|5.004050||p
PL_sv_no|5.004050||pn
PL_sv_undef|5.004050||pn
PL_sv_yes|5.004050||pn
PL_tainted|5.004050||p
PL_tainting|5.004050||p
PL_tokenbuf|5.021008||p
POP_MULTICALL|5.021008|
SV_HAS_TRAILING_NUL|5.009004|p
SV_IMMEDIATE_UNREF|5.007001|p
SV_MUTABLE_RETURN|5.009003|p
SV_NOSTEAL|5.009002|p
SV_SMAGIC|5.009003|p
SV_UTF8_NO_ENCODING|5.008001|p
SVfARG|5.009005|p
SVf_UTF8|5.006000|p
SVf|5.006000|p
SV_INVLIST|5.019002|
SV_IV||
SV_NULL||
SV_NV||
SV_PVAV||
SV_PVCV||
SV_PVF|5.006000|
SV_PGV||
SV_PHV||
SV_PVIO||
SV_PVI|5.006000|
SV_PVMG||
SV_PNVN||
SV_PV||
SV_REGEXP|5.011000|
Safefree||
Slab_Alloc||
Slab_Free||
Slab_to_ro||
Slab_to_rw||
StructCopy||
SvCUR_set||
SvCUR||
SvEND||
SvGAMAGIC|5.006001|
SvGETMAGIC|5.004050|p
SvGROW||
SvIOK_UV|5.006000|
SvIOK_notUV|5.006000|
SvIOK_off||
SvIOK_only_UV|5.006000|
SvIOK_only||
SvIOK_on||
SvIOKp||
SvIOK||
SvIVX||
SvIV_nomg|5.009001|p
SvIV_set||
SvIVx
SvIV
SvIsCOW_shared_hash
SvIsCOW
SvLEN_set
SvLEN
SvLOCK
SvMAGIC_set
SvNIOK_off
SvNIOKp
SvNOK_off
SvNOK_only
SvNOK_on
SvNOKp
SvNVX
SvNV_nomg
SvNV_set
SvNVx
SvNV
SvOK
SvOOK_offset
SvOOK
SvPOK_off
SvPOK_only_UTF8
SvPOK_only
SvPOK_on
SvPOKp
SvPVX_const
SvPVX_mutable
SvPVX
SvPV_const
SvPV_flags_const_nolen
SvPV_flags_const
SvPV_flags_mutable
SvPV_flags
SvPV_force_flags_mutable
SvPV_force_flags_nolen
SvPV_force_flags
SvPV_force_mutable
SvPV_force_nolen
SvPV_force_nomg_nolen
SvPV_force_nomg
SvPV_force
SvPV_mutable
SvPV_nolen_const
SvPV_nolen|5.006000||p
SvPV_nomg_const_nolen|5.009003||p
SvPV_nomg_const|5.009003||p
SvPV_nomg_nolen|5.013007||p
SvPV_nomg|5.007002||p
SvPV_renew|5.009003||p
SvPV_set|||
SvPVbyte_force|5.009002|
SvPVbyte_nolen|5.006000|
SvPVbyte_force|5.006000|
SvPVbyte|5.006000|
SvPVutf8_force|5.006000|
SvPVutf8_nolen|5.006000|
SvPVutf8x_force|5.006000|
SvPVutf8x|5.006000|
SvPVutf8|5.006000|
SvPVx|||
SvPV|||
SvREFCNT_dec_NN|5.017007|
SvREFCNT_dec|||
SvREFCNT_inc_NN|5.009004||p
SvREFCNT_inc_simple_NN|5.009004||p
SvREFCNT_inc_simple_void_NN|5.009004||p
SvREFCNT_inc_simple_void|5.009004||p
SvREFCNT_inc_simple|5.009004||p
SvREFCNT_inc_void_NN|5.009004||p
SvREFCNT_inc_void|5.009004||p
SvREFCNT_inc|5.009004||p
SvREFCNT|||
SvROK_off|||
SvROK_on|||
SvROK|||
SvRV_set|5.009003||p
SvRV|||
SvRXOK|5.009005|
SvRX|5.009005|
SvSETMAGIC|||
SvSHARE_Hash|5.009003||p
SvSHARE|5.007003|
SvSTASH_set|5.009003||p
SvSTASH|||
SvSetMagicSV_nosteal|5.004000|
SvSetMagicSV|5.004000|
SvSetSV_nosteal|5.004000|
SvSetSV|||
SvTAINTED_off|5.004000|
SvTAINTED_on|5.004000|
SvTAINTED||5.004000|
SvTAINT|||
SvTHINKFIRST|||
SvTRUE_nomg||5.013006|
SvTRUE|||
SvTYPE|||
SvUNLOCK||5.007003|
SvUOK|5.007001|5.006000|p
SvUPGRADE|||
SvUTF8_of|5.006000|
SvUTF8_on|5.006000|
SvUTF8|5.006000|
SvUVXx|5.004000||p
SvUVX|5.004000||p
SvUV_nomg|5.009001||p
SvUV_set|5.009003||p
SvUVx|5.004000||p
SvU|5.004000||p
SvVOK||5.008001|
SvVSTRING_mg|5.009004||p
THIS||n
UNDERBAR|5.009002||p
UTF8_MAXBYTES|5.009002||p
UVSIZE|5.006000||p
UVTYPE|5.006000||p
UVX|5.007001||p
UVof|5.006000||p
UVuf|5.006000||p
UVx|5.006000||p
WARN_ALL|5.006000||p
WARN_AMBIGUOUS|5.006000||p
WARN_ASSERTIONS|5.021008||p
WARN_BAREWORD|5.006000||p
WARN_CLOSED|5.006000||p
WARN_CLOSURE|5.006000||p
WARN_DEBUGGING|5.006000||p
WARN_DEPRECATED|5.006000||p
WARN_DIGIT|5.006000||p
WARN_EXEC|5.006000||p
WARN_EXITING|5.006000||p
WARN_GLOB|5.006000||p
WARN_INPLACE|5.006000||p
WARN_INTERNAL|5.006000||p
WARN_IO|5.006000||p
WARN_LAYER|5.008000||p
WARN_MALLOC|5.006000||p
WARN_MISC|5.006000||p
WARN_NEWLINE|5.006000||p

Open Source Used In Intersight Kubernetes Service 1.0.15 5968
amagic_is_enabled
amagic_ncmp
anonymise_cv_maybe
any_dup
ao
append_utf8_from_native_byte
apply_attr_my
apply_attr_string
apply_attr
apply
assert_utf8_cache_coherent
assignment_type
atfork_lock
atfork_unlock
av_arylen_p
av_clear
av_create_and_push
av_create_and_unshift_one
av_delete
av_exists
av_extend_guts
av_extend
av_fetch
av_fill
av_iter_p
av_len
av_make
av_pop
av_push
av_reify
av_shift
av_store
av_tindex
av_top_index
av_undef
av_unshift
ax
backup_one_SB
backup_one_WB
bad_type_gv
bad_type_pv
bind_match
block_end
block_gimme
block_start
blockhook_register
boolSV
boot_core_PerlIO
die_nocontext
die_sv[5.013001]
die_unwind
die[v
dirp_dup
div128
djSP
do_aexec5
do_aexec
do_aspawn
do_binmode[5.004050]
do_chomp

do_close

do_delete_local

do_dump_pad

do_eof

do_exec3

do_execfree

do_exec

do_gv_dump[5.006000]
do_gvgv_dump[5.006000]
do_hv_dump[5.006000]
do_ipcctl

do_ipcget

do_join

do_magic_dump[5.006000]
do_msgrcv

do_msgsnd

doncmp

do_oddball

do_op_dump[5.006000]
do_open6

do_open9[5.006000]
do_open_raw

do_openn[5.007001]
do_open[5.003070]
do_pnop_dump[5.006000]
do_print

do_readline

do_seek

do_semop

do_shmio

do_smartmatch

do_spawn_nowait

do_spawn

do_sprintf

do_sv_dump[5.006000]
do_sysseek
hv_free_ent[5.004000]
hv_iterinit[]
hv_itterkeys[5.003070]
hv_itterkey[]
hv_itternext[5.008000]
hv_itternexts[]
hv_itternext[]
hv_itterval[]
hv_kill_backrefs[]
hv_ksplit[5.003070]
hv_magic_check[]
hv_magic[]
hv_name_set[5.009003]
hv_notallowed[]
hv_placeholders_get[5.009003]
hv_placeholders_p[]
hv_placeholders_set[5.009003]
hv_rand_set[5.018000]
hv_riter_p[5.009003]
hv_riter_set[5.009003]
hv_scalar[5.009001]
hv_store_ent[5.003070]
hv_store_flags[5.008000]
hv_stores[5.009004]
hv_store[]
hv.Undef_flags[]
hv.Undef[]
ibcmp_locale[5.004000]
ibcmp_utf8[5.007003]
ibcmp[]
incpush[]
incpush_if_exists[]
incpush_use_sep[]
incpush[]
ingroup[]
init_argv_symbols[]
init_constants[]
init_dbargs[]
init_debugger[]
init_global_struct[]
init_i18n[5.006000]
init_i18n1[5.006000]
init_ids[]
init_interp[]
init_main_stash[]
init_perllib[]
init_postdump_symbols[]
init_predump_symbols[]
magic_sca**rm**pack
magic_set_ar**e**lyen
magic_setcol**o**lxf**r**m
magic_setdb**l**ine
magic_setde**b**ugvar
magic_setdefelem
magic_seten**v**
magic_sethint
magic_setis**a**
magic_setlvref
magic_setmv**g**lob
magic_setn**e**keys
magic_setpack
magic_setpos
magic_setregexp
magic_sets**i**g
magic_setsubstr
magic_setta**i**nt
magic_setutf8
magic_setu**v**ar
magic_setvec
magic_set
magic_siz**e**pack
magic_wipepack
make_matcher
make_tr**i**
malloc_good_size
malloced_size
malloc[5.007002]
markstack_grow[5.021001]
matcher_matches_sv
maybe_multimagic_gv
mayberelocate
measure_struct
memEQs[5.009005]
memEQ[5.004000]
memNEs[5.009005]
memNE[5.004000]
mem_collxfrm
mem_log_common
mess_alloc
mess_nocontext
mess_sv[5.013001]
mess[5.006000]
mfree[5.007002]
mg_clear
mg_copy
save_132
save_18|5.006000|
save_adelete|5.011000|
save_aelem_flags|5.011000|
save_aelem|5.004050|
save_aliased_sv|
save_alloc|5.006000|
save_aptr|
save_ary|
save_boo|5.008001|
save_clearsv|
save_delete|
saveDestructor_x|5.006000|
saveDestructor|5.006000|
save_freeop|
save_freepv|
save_freesv|
save_generic_pvref|5.006001|
save_generic_svref|5.005030|
save_gp|5.004000|
save_hash|
save_hdelete|5.011000|
save_heck_flags||n
save_helem_flags|5.011000|
save_helem|5.004050|
save_hints|5.010001|
save_hptr|
save_int|
save_item|
save_iv|5.005000|
save_lines|
save_list|
save_long|
save_magic_flags|
save_mortalizesv|5.007001|
save_nogv|
save_op|5.005000|
save_padsv_and_mortalize|5.010001|
save_pptr|
save_pushi32ptr|5.010001|
save_pushptr32ptr|
save_pushptrptr|5.010001|
save_pushptr|5.010001|
save_re_context|5.006000|
save_scalar_at|
save_scalar|
save_set_svflags|5.009000|
save_shared_pvref|5.007003|
save_spthread
save_strlen
save_svref
save_vptr[5.006000]
savepvn
savepvs[5.009003]
savepv
savesharedpvn[5.009005]
savesharedpvs[5.013006]
savesharedpv[5.007003]
savesharedsvpv[5.013006]
savestack_grow_cnt[5.008001]
savestack_grow
savesvpv[5.009002]
sawparens
scalar_mod_type
scalarboolean
scalarkids
scalarseq
scalarvoid
scalar
scan_bin[5.006000]
scan_commit
scan_constr
scan_formline
scan_heredoc
scan_hex
scan_ident
scan_inputsymbol
scan_num[5.007001]
scan_oct
scan_pat
scan_str
scan_subst
scan_trans
scan_version[5.009001]
scan_vstring[5.009005]
scan_word
search_constr
seed[5.008001]
sequence_num
set_ANYOF_arg
set_caret_X
set_context[5.006000]
set_numeric_local[5.006000]
set_numeric_radix[5.006000]
set_numeric_standard[5.006000]
set_padlist
sv_kill_backrefs
sv_len_utf8_nomg
sv_len_utf8||5.006000
sv_len||
sv_magic_portable||5.021008||5.004000
sv_magicext_mglob
sv_magicext||5.007003
sv_magic
sv_mortalcopy_flags
sv_mortalcopy
svncmp
sv_newmortal
sv_newref
sv_nolocking||5.007003
sv_nosharing||5.007003
sv_nounlocking
sv_nv||5.005000
sv_only_taint_gmagic
sv_or_pv_pos_u2b
sv_peek||5.005000
sv_pos_b2u_flags||5.019003
sv_pos_b2u_midway
sv_pos_b2u||5.006000
sv_pos_u2b_cached
sv_pos_u2b_flags||5.011005
sv_pos_u2b_forwards
sv_pos_u2b_midway
sv_pos_u2b||5.006000
sv_pvbyten_force||5.006000
sv_pvbyten||5.006000
sv_pvbyte||5.006000
sv_pvn_force_flags||5.007002||5.005000
sv_pvn_force
sv_pvn_nomg||5.007003||5.005000
sv_pvn||5.005000
sv_pvutf8n_force||5.006000
sv_pvutf8n||5.006000
sv_pvutf8||5.006000
sv_pv||5.006000
sv_recode_to_utf8||5.007003
sv_ref
sv_release_COW
sv_replace
sv_report_used
sv_resetpvn
sv_reset
sv_rvweaken||5.006000
Open Source Used In Intersight Kubernetes Service 1.0.15 6006
yyunlex|||
yywarn|||
);
if (exists $opt{'list-unsupported'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{todo};
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}

Open Source Used In Intersight Kubernetes Service 1.0.15 6007


else {
  if (exists $API{$define->[0]} & & $define->[1] !~ /^DPPP_\(//) { my @n = find_api($define->[1]); push @{$depends{$define->[0]}}, @n if @n }
  undef $define;
}
}

$define = [$1, $2] if m{^\s*\#s*define\(\s*[\w\(]*\)\s+(.*);\)$};

if ($function) {
  if (/\^\}/) {
    if (exists $API{$function->[0]}) {
      my @n = find_api($function->[1]); push @{$depends{$function->[0]}}, @n if @n
    }
    undef $function;
  }
  else {
    $function->[1] .= $_;
  }
}

$function = [$1, ""] if m{^DPPP_\(my_(\w+)\)$};

$replace = $1 if m{^\s*\#s*$rccs\s+Replace\s+(\w+)\s+$rcce\s+$};

$replace{S2} = $1 if $replace and m{^\s*\#s*define\(\s+(.*);\)\s+(.*);\)$};

$replace{S2} = $1 if m{^\s*\#s*define\(\s+(.*);\)\s+(.*);\)$};

$replace{S1} = $2 if m{^\s*$rccs\s+Replace \((\w+)\) with \((\w+)\)$};

if (m{^\s*$rccs\s+(\w*\s*,\w+)\s+depends\s+(\w*\s*,\w+)\s+(\w*\s*,\w+)\s+\s+\s+$rcce\s+$}) {
  my @deps = map { s/$/; $._ } split //, $3;
  my $d;
  for $d (map { s/$/; $._ } split //, $1) {
    push @{$depends{$d}}, @deps;
  }
}

$need{S1} = 1 if m{^\#if\s+$if\s+defined\(\w+\)(?_GLOBAL)\)$};

for (values %depends) {
  my %s;
  $._ = [sort grep !$s{$._}++, @$_];
}

if (exists $opt{'api-info'}) {
my $f;
my $count = 0;

my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "^Q$opt{'api-info'}\E$";

for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $f =~ /$match/;
    print "\n=== $f ===\n\n";

    my $info = 0;

    if (SAPI[$f] {base} || SAPI[$f] {todo}) {
        my $base = format_version(SAPI[$f] {base} || SAPI[$f] {todo});
        print "Supported at least starting from perl-$base\n";
        $info++;
    }
    if (SAPI[$f] {provided}) {
        my $todo = SAPI[$f] {todo} ? format_version(SAPI[$f] {todo}) : "5.003";
        print "Support by $ppport provided back to perl-$todo\n";
        my $warns = format($need[$f] ? "NEED_$f\n" : "\n");
        print "$warns if exists $need{$f};
        my $base = format_version("$todo\n" if exists $depends{$f};
        print "$warns if exists $depends{$f};
        print "$warns if exists $warnings{$f};
        $info++;
    }
    print "No portability information available\n" unless $info;
    $count++;
}
$count or print "Found no API matching '$opt{'api-info'}'.\n";
print "$\n";
exit 0;
}

if (exists $opt{'list-provided'}) {
    my @flags;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless SAPI[$f] {provided};
        my @flags;
        push @flags, 'explicit' if exists $need{$f};
        push @flags, 'depend'   if exists $depends{$f};
        push @flags, 'hint'     if exists $hints{$f};
        push @flags, 'warning'  if exists $warnings{$f};
        my $flags = @flags ? '  [' . join(', ', @flags) . ']' : "";
        print "$f$flags\n"
    }
    exit 0;
}

my @files;
my @srcext = qw(.xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $1 } @srcext;
if (@ARGV) {
    my %seen;
    for (@ARGV) {
        if (-e) {
            if (-f) {
                push @files, $_ unless $seen{$_}++;
            } else {
                warn "$_ is not a file.
            }
        } else {
            my @new = grep { -f } glob $_
                or warn "$_ does not exist.
            push @files, grep { !$seen{$_}++ } @new;
        }
    } else {
        eval {
            require File::Find;
            File::Find::find(sub {
                $File::Find::name =~ /($srcext)$/i
                    and push @files, $File::Find::name;
            }, '.');
        } if ($@) {
            @files = map { glob "*$_" } @srcext;
        }
    }
    if (!@ARGV || $opt{filter}) {
        my(@in, @out);
        my %xsc = map { /(\.*).xs$/ ? ($1.c => 1, "$1.cc" => 1) : () } @files;
        for (@files) {
            my $out = exists $xsc{$_} || /\Q$ppport\E$/i || !($srcext)/$i;
            push @[ $out ? @out : @in ], $_;
        }
        if (@ARGV && @out) {
            warning("Skipping the following files (use --nofilter to avoid this):
                join "\n", @out);
        }
        @files = @in;
    }

    die "No input files given!\n" unless @files;

    my(%files, %global, %revreplace);
    %revreplace = reverse %replace;
    my $filename;
    my $patch_opened = 0;
for $filename (@files) {
    unless (open IN, "<$filename") {
        warn "Unable to read from $filename: $!
        next;
    }

    info("Scanning $filename ...");

    my $c = do { local $/; <IN> }
    close IN;

    my %file = (orig => $c, changes => 0);

    # Temporarily remove C/XS comments and strings from the code
    my @ccom;
    $c =~ s{
        ( ^$HS*include\b[^\r\n]*\b(?:Q$ppport|XSUB)\b[^\r\n]*)
        | ^$HS*\#define[\r\n]* \b(?::|\Q$ppport\E)\b[^\r\n]*
        | ( ^$HS*\#\b[^\r\n]*
        | "[^"\]\]*\b[^\r\n]*\b"| \w[^\]\]*\w\b[^\r\n]*
        | (/?:[^\]\]*\b|^\w[^\]\]*\b/.| /[^\r\n]*
        | [ defined $2 and push @ccom, $2;
        | defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;

    $file{ccom} = \@ccom;
    $file{code} = $c;
    $file{has_inc_ppport} = $c =~ /^$HS*\#include[^\r\n]+\bQ$ppport\b[^\r\n]*
      | ^$HS*\#\b(?::|\Q$ppport\E)\b[^\r\n]*
      | ( ^$HS*\#\b[^\r\n]*
        | "[^"\]\]*\b[^\r\n]*\b"| \w[^\]\]*\w\b[^\r\n]*
        | (/?:[^\]\]*\b|^\w[^\]\]*\b/.| /[^\r\n]*
        | [ defined $2 and push @ccom, $2;
        | defined $1 ? $1 : "$ccs$#com$ccce" }mgsex;

    $file{ccom} = \@ccom;
    $file{code} = $c;
    $file{has_inc_ppport} = $c =~ /^$HS*\#include[^\r\n]+\bQ$ppport\b[^\r\n]*

    my $func;

    for $func (keys %API) {
        my $match = $func;
        $match .= "$revreplace{$func}" if exists $revreplace{$func};
        if (Sc =~ Ab(?:Perl_)?($match)\b) {
            $file{uses_replace}[$1]++ if exists $revreplace{$func} &
            $1 eq $revreplace{$func};
            $file{uses_Perl}[$func]++ if Sc =~ AbPerl_\func\b;
            if (exists $API{$func}{provided}) {
                $file{uses_provided}[$func]++;
                if (exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
                    $file{uses}[$func]++;
                    my @deps = rec_depend($func);
                    if (@deps) {
                        $file{uses_deps}[$func] = \@deps;
                    for (@deps) {
                        $file{uses}[$_] = 0 unless exists $file{uses}[$_];
                    }
}
}
for ($func, @deps) {
$file{needs}{$_} = 'static' if exists $need{$_};
}
}
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
if ($c =~ /\b$func\b/) {
$file{uses_todo}{$func}++;
}
}
}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}

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for $filename (@files) {
    exists $files{$filename} or next;

    info("== Analyzing $filename ==");

    my %file = %{$files{$filename}};
    my $func;
    my $c = $file{code};
    my $warnings = 0;

    for $func (sort keys %{$file{uses_Perl}})) {
        if ($API{$func}{varargs}) {
            unless ($API{$func}{nothxarg}) {
                my $changes = ($c =~ s{\b(Perl_$func\$\s*)(?!aTHX_\?)(?!aTHX_\?)(?!aTHX_\?)}{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ' ) . $2 }ge);
                if ($changes) {
                    warning("Doesn't pass interpreter argument aTHX to Perl_$func");
                    $file{changes} += $changes;
                }
            }
        } else {
            warning("Uses Perl_$func instead of $func");
            $file{changes} += ($c =~ s{\bPerl_$func\$\s*(?!aTHX_\?)\$?\$?\$?}{ $func$1\$2 }g);
        }
    }

    for $func (sort keys %{$file{uses_replace}}) {
        warning("Uses $func instead of $replace{$func}");
        $file{changes} += ($c =~ s/$func/$replace{$func}/g);
    }

    for $func (sort keys %{$file{uses_provided}}) {
        if ($file{uses}{$func}) {
            if (exists $file{uses_deps}{$func}) {
                diag("Uses $func, which depends on ", join(’, ’, @{$file{uses_deps}{$func}}));
            } else {
                diag("Uses $func");
            }
        }
        $warnings += hint($func);
    }

    unless ($opt{quiet}) {
        for $func (sort keys %{$file{uses_todo}}) {
            print "*** WARNING: Uses $func, which may not be portable below perl ",
        }
    }
format_version($API{$func} {todo}), ", even with 'ppport"n'';
$warnings++;
}
}

for $func (sort keys %{$file{needed_static}}) {
  my $message = "";
  if (not exists $file{uses} { $func }) {
    $message = "No need to define NEED_$func if $func is never used";
  }
  elsif (exists $file{needs} {$func} && $file{needs} {$func} ne 'static') {
    $message = "No need to define NEED_$func when already needed globally";
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
  }
}

for $func (sort keys %{$file{needed_global}}) {
  my $message = "";
  if (not exists $global{uses} {$func}) {
    $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
  }
  elsif ($file{needs} {$func} ne 'extern') {
    if ($file{needs} {$func} eq 'extern') {
      $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
    }
    elsif ($file{needs} {$func} eq 'static') {
      $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
    }
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
  }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
  my $pp = ";

  for $func (sort keys %{$file{needs}}) {
    my $type = $file{needs} {$func};
    next if $type eq 'extern';
    my $suffix = $type eq 'global' ? '_GLOBAL' : "";
    unless (exists $file{"needed_${type}"} {$func}) {

if ($type eq 'global') {
    diag("Files [@ \{global\{needs\} \{func\}]] need $func, adding global request");
} else {
    diag("File needs $func, adding static request");
}

$pp .= "#define NEED_$func$suffix\n";
}

if ($pp && ($c =~ s/^(?!$HS*#$HS*define$HS+NEED_\w+)/(\$pp)/m)) {
    $pp = "":
    $file{changes}++;
}

unless ($file{has_inc_ppport}) {
    diag("Needs to include '$ppport'");
    $pp .= qq(#include "$ppport\n")
}

if ($pp) {
    $file{changes} += ($c =~ s/^(?!$HS*#$HS*define$HS+NEED_\w+.*?)/$1$pp/ms)
    || ($c =~ s/^(?!$HS*#$HS*include.*\Q$ppport\E)/$pp/m)
    || ($c =~ s/^(?!$HS*#$HS*include.*XSUB.*\s+?)/$1$pp/m)
    || ($c =~ s/\$pp/);
}
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include '$ppport'");
        $file{changes} += ($c =~ s/\$ppport\E.*?\$LF//m);
    }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
    } else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
    }
}
if ($cppc) {
    my $s = $cppc != 1 ? 's' : ';
    warning("Uses $cppc C++ style comment$s, which is not portable");
}
my $s = $warnings != 1 ? 's' : ';
my $warn = $warnings ? " ($warnings warning$s)" : ';
info("Analysis completed$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("$newfile' already exists, refusing to write copy of $filename");
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of $filename with changes to $newfile");
                print F $c;
                close F;
            } else {
                error("Cannot open '$newfile' for writing: $!");
            }
        }
    } elsif (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
            unless ($patch_opened) {
                if (open PATCH, ">$opt{patch}") {
                    $patch_opened = 1;
                } else {
                    error("Cannot open '$opt{patch}' for writing: $!");
                    delete $opt{patch};
                    $opt{changes} = 1;
                    goto fallback;
                }
            }
            mydiff(*PATCH, $filename, $c);
        } else {
            fallback:
            info("Suggested changes:");
            mydiff(*STDOUT, $filename, $c);
        }
    }
}
else {
    my $s = $file{changes} == 1 ? 's' : 's';
    info("$file{changes} potentially required change$s detected");
}
else {
    info("Looks good");
}
}

close PATCH if $patch_opened;

exit 0;

sub try_use { eval "use @_;": return $@ eq "" }

sub mydiff
{
    local *F = shift;
    my($file, $str) = @_; 
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if (!defined $diff and try_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, 
            \$str, { STYLE => 'Unified' });
        $diff = "<<HEADER . $diff;
--- $file
+++ $file.patched
HEADER"
    }

    if (!defined $diff) {
        $diff = run_diff('diff -u', $file, $str);
    }

    if (!defined $diff) {
        $diff = run_diff('diff', $file, $str);
    }

    if (!defined $diff) {
        error("Cannot generate a diff. Please install Text::Diff or use --copy.");
        return;
    }
}
print F $diff;
}

sub run_diff
{
my($prog, $file, $str) = @_; my $tmp = 'dppptemp'; my $suf = 'aaa'; my $diff = ''; local *F;

while (-e "$tmp.$suf") { $suf++ }
$tmp = "$tmp.$suf";

if (open F, ">$tmp") {
print F $str;
close F;

if (open F, "$prog $file $tmp |") {
while (<F>) {
s/Q$tmp/E/$file.patched/;
$diff .= $_;
}
close F;
unlink $tmp;
return $diff;
}
unlink $tmp;
}
else {
error("Cannot open '$tmp' for writing: $!");
}
return undef;
}

sub rec_depend
{
my($func, $seen) = @_; return () unless exists $depends{$func};
$seen = {%{$seen||{}}}; return () if $seen->{$func}++; my %s;
grep !s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}

sub parse_version
my $ver = shift;

if ($ver =~ /^\d+/(d\d+)/.(d\d+)/$) {
    return ($1, $2, $3);
}
elsif ($ver !~ /^\d+\d+\$) {
    die "cannot parse version $ver\n";
}

$ver =~ s/_//g;
$ver =~ s/$/000000/;

my($r,$v,$s) = $ver =~ /\d+/.(d\d+)/(d\d+)/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "cannot parse version $ver\n";
    }

    return ($r, $v, $s);
}

sub format_version {
    my $ver = shift;

    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\d+/.(d\d+)/(d\d+)/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "invalid version $ver\n";
        }

        $s /= 10;

        $ver = sprintf "%d.\%03d", $r, $v;
        $s > 0 and $ver .= sprintf "\_%02d", $s;
    }

    return $ver;
}
return sprintf "%.d%.d%.d", $r, $v, $s;
}

sub info
{
$opt{quiet} and return;
print @_, "\n";
}

sub diag
{
$opt{quiet} and return;
$opt{diag} and print @_, "\n";
}

sub warning
{
$opt{quiet} and return;
print "*** \n", @_, "\n";
}

sub error
{
print "*** ERROR: \n", @_, "\n";
}

my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !given_warnings{$func}++)
  my $warn = $warnings{$func};
  $warn =~ s!^!*** !mg;
  print "*** WARNING: $func\n", $warn;
  $rv++;
}
if ($opt{hints} && exists $hints{$func} && !given_hints{$func}++)
  my $hint = $hints{$func};
  $hint =~ s/^/   /mg;
  print "   --- hint for $func ---\n", $hint;
}
sub usage
{
    my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
    my %M = ( 'I' => '*' );
    $usage =~ s/^\s*perl\s+\S+/$^X $0/;
    $usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;

    print <<ENDUSAGE;
    Usage: $usage
    See perldoc $0 for details.
    ENDUSAGE
    exit 2;
}

sub strip
{
    my $self = do { local(@ARGV,$/)=($0); <> };
    my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=/ms;
    $copy =~ s/^(?=$/\x)/$copy/ms;
    $self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
    $self =~ s/^SKIP.*(?=^__DATA__)/SKIP
    if ($@ && $ARGV[0] eq '--unstrip') {
        eval { require Devel::PPPort };
        \$@ and die "Cannot require Devel::PPPort, please install.\n";
        if (eval \$Devel::PPPort::VERSION < \$VERSION) {
            die "$0 was originally generated with Devel::PPPort \$VERSION.\n".
            "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\n".
            "Please install a newer version, or --unstrip will not work.\n";
        }
        Devel::PPPort::WriteFile($0);
        exit 0;
    }
    print <<END;
    Sorry, but this is a stripped version of $0.
    To be able to use its original script and doc functionality,
    please try to regenerate this file using:
    \$^X \$0 --unstrip
    END
    /ms;
    my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
1.668 libavahicommon 0.7 4+b1

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5. [6]Michael Barone <michael.barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and isignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
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15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg’s Winnt port.
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42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46] Damon
Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47] Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code
maintenance
44. [48] Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de>
monitoring/trap scripts, statistics file handling
45. [49] Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50] Wilfredo Sanchez <wsanchez@apple.com> added support for
NetInfo
47. [51] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of
space on the stuff in the html/pic/ subdirectory
49. [53] Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54] Michael Shields <shields@tembel.org> USNO clock driver
51. [55] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock
driver
52. [56] Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure
makeover, various other bits (see the ChangeLog)
53. [57] Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58] Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast
support
55. [59] Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock
driver
56. [60] Brian Utterback <brian.utterback@oracle.com> General codebase,
Solaris issues
57. [61] Loganaden Velvindron <loganaden@gmail.com> Sandboxing
(libseccomp) support
58. [62] Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic
TrueTime clock driver
59. [63] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and
validated HTML documents according to the HTML DTD

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/* -*- Mode: Text -*- */
copyright = {
  date = "1992-2017";
  owner = "The University of Delaware and Network Time Foundation";
  eaddr = "http://bugs.ntp.org, bugs@ntp.org";
  type = ntp;
long-opts;
config-header = config.h;
environrc;
no-misuse-usage;
version-proc = ntpOptionPrintVersion;

version = ' 
    eval VERSION="`sed -e 's/.*\[//' -e 's/\]/>.*/ < ../sntp/m4/version.m4`"
    [ -z "$VERSION" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid
    echo "$VERSION";

version-value = "!/" Don't use -v as a shortcut for --version */

/*
 * HMS: man pages already have this, and texi pages can use the
 * values in sntp/include/version.texi.
 */
// doc-sub = {
//     sub-name = version;
//     sub-text = '\$VERSION\$<version>$';
// }
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Open-vm-tools v10.3.0

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```
>>> freebsd-base64-4.8
>>> unicode-5.0
```

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SOpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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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,
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1.688 libnfsidmap 0.25 5.1

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1.690 golang-protobuf-extensions 1.0.1

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#+TITLE: List of code with permissive licenses as used by GnuPG.
#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.693 bytebufferpool 1.0.0

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1.694 is-callable 1.1.4

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1.695 python-minimal 3.6.7 1~18.04

1.695.1 Available under license:

This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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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.

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py3compile, py3clean and debpython module:
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       src/net/ethtool-utility.c
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cffe2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>
* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

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1.707 mdadm 4.1~rc1 3~ubuntu18.04.4

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package spec

// License information for the exposed API.

//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin     string
    Option     string
    Severity   string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version    string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(` It is replaced by "%v"`, n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}

const ( // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated  = "deprecated"  // deprecated, but still completely functional
    ignored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
    removed     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
    newdefault  = "newdefault"  // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool
)

// The following statuses are used for selecting/filtering notifications
all = "all" // show all statuses
)

{% panel style="success", title="Providing Feedback" %}
**Provide feedback at the [survey](https://www.surveymonkey.com/r/JH35X82)**
{% endpanel %}
# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```
## Specify the Container

Specify the Container within a Pod running multiple containers.

- ` `-c <container-name>` `

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with ` `<namespace>/` .

- ` `<pod-namespace>/<pod-name>::<path>` `

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

---

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tomb - support for clean goroutine termination in Go.

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package simulator

import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {Key: "feature",
         Value: types.KeyValue{
             Key: "serialuri:2",
             Value: "Remote virtual Serial Port Concentrator",
         },
        },
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "dvs",
            },
        },
    },
}
type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self = ref
        Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}
    }
    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }
    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{},
    }
    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }
    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:     req.Labels,
    })
    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }
    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }
    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:     req.Labels,
    })
    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
    return body
}
for i, license := range m.Licenses {
    if req.LicenseKey == license.LicenseKey {
        m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
        return body
    }
}

body := &methods.UpdateLicenseLabelBody{}

for i := range m.Licenses {
    license := &m.Licenses[i]
    if req.LicenseKey != license.LicenseKey {
        continue
    }

    body.Res = new(types.UpdateLicenseLabelResponse)
    for j := range license.Labels {
        label := &license.Labels[j]
        if label.Key == req.LabelKey {
            if req.LabelValue == "" {
                license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
            } else {
                label.Value = req.LabelValue
            }
            return body
        }
    }

    license.Labels = append(license.Labels, types.KeyValue{
        Key: req.LabelKey,
        Value: req.LabelValue,
    })
    return body
}

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey")
return body
}
type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }
            if Map.Get(id) == nil {
                return body
            }
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {
            EntityId: req.EntityId,
            AssignedLicense: EvalLicense,
        },
    }

    return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense
    info-LicenseKey = key
    info.Labels = labels

    return info
}

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1.712 cors 2.8.5

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This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
README.changes.

HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mitami.mitia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornasa.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.) Boost Software License - Version 1.0 - August 17th, 2003

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[1] # MPL Support, <boost/mp11/mpl.hpp>

:toc:
The header `\`<boost/mp11/mpl.hpp>``, when included, defines the necessary support infrastructure for `\`mp_list\` and `\`std::tuple\` to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `\`mpl.hpp\` is not included by `\`<boost/mp11.hpp>`.

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1.723 protobufjs-pool 1.1.0

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1.725 golang-org-x-text 0.3.6

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This package contains the scripts that are executed at start and shutdown of Debian systems.

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Init was written by Miquel van Smoorenburg <miquels@cistron.nl>.

This package was first put together by Bruce Perens <Bruce@Pixar.com> from pre-distribution sources. Ian Murdock <imurdock@debian.org> integrated it into the base system maintained it until the end of 1995. Miquel van Smoorenburg <miquels@cistron.nl> implemented Debian support. In version 2.85 the package was split into three (sysvinit, sysv-rc, sysv-rc-crontab).
and initscripts) in order to make room for alternative rc mechanisms.

The upstream source is available at:

Primary-Site:   ftp.cistron.nl /pub/people/miquels/software

92K sysvinit-2.86.tar.gz
Alternate-Site: sunsite.unc.edu /pub/Linux/system/daemons/init

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Send patches to sysvinit-devel@nongnu.org.

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* A rewrite of the original Debian's start-stop-daemon Perl script
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* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>, public domain.
This package contains the mechanism for executing the right scripts in the right order at bootup/shutdown time, and when changing runlevels.
It works through managing symlinks in `/etc/rc?.d`

This package is built from the `sysvinit' source package. Please consult the copyright file of the sysvinit package for the location of the upstream sources of the sysvinit package. Debian-specific files for sysvinit, such as these initscripts, are maintained by the members of the pkg-sysvinit project at alioth.debian.org.

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1.730 @types/cacheable-request 6.0.2

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1.731 python-setuptools 57.5.0

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1.732 icu 60.2 3ubuntu3.1

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## Commands to generate dependency files

```bash
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)
```

## Flags for position independent code

```bash
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC
```

## Additional flags when building libraries and with threads

```bash
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =
```

## Compiler switch to embed a runtime search path

```bash
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,
```

## Compiler switch to embed a library name

```bash
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))
```

## Shared library options

```bash
LD_SOOPTIONS= -Wl,-Bsymbolic
```

## Shared object suffix

```bash
SO = so
```

## Non-shared intermediate object suffix

```bash
STATIC_O = ao
```

## Compilation rules

```bash
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%
%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
```

## Dependency rules

```bash
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$SHELL) -ec "$GEN_DEPS.c $< \ | sed "s/\(\([^@]*\)\)/[^A].o "$@ : /g" > $@; \ | -s $@ ] || rm -f $@"
```
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \n | sed 's/\($*\)\.o[ :]*/\1.o $@ : /g\n > $@; \n [ -s $@ ] || rm -f $@'"

## Versioned libraries rules

%.$@.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$@.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$@: %.@.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
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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
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/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
slave/kpropd_rpc.c
slave/kproplog.c

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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
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
    slave/kpropdRpc.c
    slave/kproplog.c

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Version 3, 29 June 2007

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1.742 concat-stream 1.6.2

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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.

Will Pierce <willp@nuclei.com>
* Small patch improving performance of in Python serialization.

Alexandre Vassalotti <alexandre@peadrop.com>
* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>
* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>
* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>
* 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.

William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris

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This file contains a list of people who have contributed code and effort to the memcached project. If you don't see your name mentioned send email to the memcached mailing list so you can be immortalized.

Also see the ChangeLog for even more people who have helped over the years by submitting fixes, patches and reporting bugs.

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_crypto.js - internally uses AES algorithm

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MySQL 5.7.28 (and later)

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Version 3.1, 31 March 2009

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libssh v0.7.3

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Equivalent code is available from RSA Data Security, Inc. This code has been tested against that, and is equivalent, except that you don't need to include two pages of legalese with every copy.

The code has been modified by Mikael Ronstroem to handle calculating a hash value of a key that is always a multiple of 4 bytes long. Word 0 of the calculated 4-word hash value is returned as the hash value.

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zlib

zlib

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1.745 balanced-match 1.0.2

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configure_requires:
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dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.112150'
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1.750 libreadline7 7.0 3

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1.753 libtcnative-1 1.2.21-1

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1.754 path-parse 1.0.7

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1.756 githubcommailrueasyjson 0.7.0

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1.757 ecc-jsbn 0.1.2

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1.758 mawk 1.3.3 17+b3

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
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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
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
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
slave/kpropd_rpc.c
slave/kproplog.c

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1.771 which-typed-array 1.1.7

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**1.776 kmod 26 1**

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Version 2.1, February 1999

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when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
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The hypothetical commands `show w' and `show c' should show the appropriate  
parts of the General Public License. Of course, the commands you use may  
be called something other than `show w' and `show c'; they could even be  
mouse-clicks or menu items--whatever suits your program.

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:

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

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(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
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1.794 python-requests 2.26.0

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1.795 coreutils 8.28 1ubuntu1

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1.798 clone-response 1.0.2

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1.799 nginx-module-xslt 1.17.10-1~buster

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1.800 libverto 0.3.2-r0

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1.801 hosted-git-info 2.8.9

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1.802 github.com/simonpasquier/klog-gokit/v3 3.0.0

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The End

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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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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
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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 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
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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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1.818 cyrus-sasl-lib 2.1.27-5.el8

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1.819 python3-pysocks 1.6.8-3.el8

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1.820 perl-term-ansicolor 4.06-396.el8

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1.821 fs.realpath 1.0.0

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1.822 es-abstract 1.12.0

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1.823 async-retry 1.3.3

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1.824 systemd-libs 239-41.el8_3.2

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1.826 perl-pod-usage 1.69-395.el8

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1.827 pythonurllib 1.22 1ubuntu0.18.04.2

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# Contributions to the urllib3 project

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## Contributors

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  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBR5RIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
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  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.
* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters
* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanchy@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacababadacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture
* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance
* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
* Bugfix to pyopenssl vendoring

* [Your name or handle] <[email or website]>
* Brief summary of your changes

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Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libcrypto

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>
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D3DES (V5.09) -

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1.841 snapd 2.49.2 18.04

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Gocheck - A rich testing framework for Go
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BSON library for Go

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mgo - MongoDB driver for Go

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Upstream-Name: snappy
Source: https://github.com/snapcore/snapd

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 * 
 */

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// From https://spdx.org/licenses/
// data files: https://github.com/spdx/license-list-data
// Version: 3.11 2020-11-25
//
// jq < json/licenses.json '.licenses | .[] | select(.isOsiApproved == true) | .licenseId' | sort | sed -e 's/$/,/'
var osi = []string{
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    "AAL",
    "AFL-1.1",
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"Zlib",
"ZPL-2.0",
}

// using SPDX license data:
// jq < json/licenses.json '.licenses | .[] | .licenseId | sort | sed 's/$/,/'
var allLicenses = []string{
"0BSD",
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// FIXME: non SPDX licenses that the snapstore uses
"Proprietary",
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var licenseExceptions = [
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];

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Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: snappy
Source: https://github.com/snapcore/snapd

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Version 3, 29 June 2007

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(ten or fewer lines in length), you do both of the following:

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Tomb - support for clean goroutine termination in Go.

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1.850 tslib 1.14.1

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b) Use a suitable shared library mechanism for linking with the 
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copy of the library already present on the user's computer system, 
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1.856 klog 2.10.0

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1.860 python3-dnf-plugins-core 4.0.17-5.el8

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1.865 kpartx 0.8.4-5.el8

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1.869 libffi 3.1-22.el8

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1.872 urllib3 1.26.7
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1.873 is-callable 1.2.3

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1.874 tzdata 2021a-1.el8

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1.875 camelcase 4.1.0

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1.876 run-queue 1.0.3

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1.877 keyutils 1.5.9 9.2ubuntu2

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

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1.878 perl-pod-escapes 1.07-395.el8

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Found in path(s):
* /opt/cola/permits/1185063554_1627672341.04/0/perl-Pod-Escapes-1.07-395.el8-1.src.rpm-cosi-expand-archive-GEpX7CJ0/perl-Pod-Escapes.spec
No license file was found, but licenses were detected in source scan.

=head1 NAME
Pod::Escapes - for resolving Pod EE<lt>...E<gt> sequences

=head1 SYNOPSIS

use Pod::Escapes qw(e2char);
...la la, parsing POD, la la la...
$text = e2char($e_node->{'label'});
unless(defined $text) {
    print "Unknown E sequence \", $e_node->{'label'}, "!";
}
...else print/interpolate $text...

=head1 DESCRIPTION

This module provides things that are useful in decoding Pod EE<lt>...E<gt> sequences. Presumably, it should be used only by Pod parsers and/or formatters.

By default, Pod::Escapes exports none of its symbols. But you can request any of them to be exported.

Either request them individually, as with
C<use Pod::Escapes qw(symbolname symbolname2...)>;
or you can do C<use Pod::Escapes qw(:ALL)> to get all exportable symbols.

=head1 GOODIES

=item e2char($e_content)

Given a name or number that could appear in a C<EE<lt>name_or_numE<gt>> sequence, this returns the string that it stands for. For example, C<e2char('sol')>, C<e2char('47')>, C<e2char('0x2F')>, and C<e2char('057')> all return "/", because C<EE<lt>solE<gt>>, C<EE<lt>47E<gt>>, C<EE<lt>0x2fE<gt>>, and C<EE<lt>057E<gt>>, all mean "/". If the name has no known value (as with a name of "qacute") or is syntactically invalid (as with a name of "1/4"), this returns undef.

=item e2charnum($e_content)

Given a name or number that could appear in a C<EE<lt>name_or_numE<gt>> sequence, this returns the number of the Unicode character that this stands for. For example, C<e2char('sol')>, C<e2char('47')>, C<e2char('0x2F')>, and C<e2char('057')> all return 47,
because C\textless lt\textgreater solE\textless gt\textgreater, C\textless lt\textgreater 47E\textless gt\textgreater, C\textless lt\textgreater 0x2fE\textless gt\textgreater, and C\textless lt\textgreater 057E\textless gt\textgreater, all mean "/", whose Unicode number is 47. If the name has no known value (as with a name of "qacute") or is syntactically invalid (as with a name of "1/4"), this returns undef.

=item $Name2character{I<name>}

Maps from names (as in C\textless lt\textgreater I<name>E\textless gt\textgreater) like "eacute" or "sol" to the string that each stands for. Note that this does not include numerics (like "64" or "x981e"). Under old Perl versions (before 5.7) you get a "?" in place of characters whose Unicode value is over 255.

=item $Name2character_number{I<name>}

Maps from names (as in C\textless lt\textgreater I<name>E\textless gt\textgreater) like "eacute" or "sol" to the Unicode value that each stands for. For example, C\$Name2character_number{'eacute'} is 201, and C\$Name2character_number{'eacute'} is 8364. You get the correct Unicode value, regardless of the version of Perl you're using -- which differs from C\%Name2character's behavior under pre-5.7 Perls.

Note that this hash does not include numerics (like "64" or "x981e").

=item $Latin1Code_to_fallback{I<integer>}

For numbers in the range 160 (0x00A0) to 255 (0x00FF), this maps from the character code for a Latin-1 character (like 233 for lowercase e-acute) to the US-ASCII character that best approximates it (like "e"). You may find this useful if you are rendering POD in a format that you think deals well only with US-ASCII characters.

=item $Latin1Char_to_fallback{I<character>}

Just as above, but maps from characters (like "xE9", lowercase e-acute) to characters (like "e").

=item $Code2USASCII{I<integer>}

This maps from US-ASCII codes (like 32) to the corresponding character (like space, for 32). Only characters 32 to 126 are defined. This is meant for use by C\e2char($x) when it senses that it's running on a non-ASCII platform (where chr(32) doesn't get you a space -- but $Code2USASCII[32] will). It's documented here just in case you might find it useful.
CAVEATS

On Perl versions before 5.7, Unicode characters with a value over 255 (like lambda or emdash) can’t be conveyed. This module does work under such early Perl versions, but in the place of each such character, you get a "?". Latin-1 characters (characters 160-255) are unaffected.

Under EBCDIC platforms, C<e2char($n)> may not always be the same as C<chr(e2charnum($n))>, and ditto for C<$Name2character{$name}> and C<chr($Name2character_number{$name})>, because the strings are returned as native, and the numbers are returned as Unicode. However, for Perls starting with v5.8, C<e2char($n)> is the same as C<chr(utf8::unicode_to_native(e2charnum($n)))>, and ditto for C<$Name2character{$name}> and C<chr(utf8::unicode_to_native($Name2character_number{$name}))>.

SEE ALSO

L<Pod::Browser> - a pod web server based on L<Catalyst>.

L<Pod::Checker> - check pod documents for syntax errors.

L<Pod::Coverage> - check if the documentation for a module is comprehensive.

L<perlpod> - description of pod format (for people documenting with pod).

L<perlpodspec> - specification of pod format (for people processing it).

L<Text::Unidecode> - ASCII transliteration of Unicode text.

REPOSITORY

L<https://github.com/neilbowers/Pod-Escapes>

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Portions of the data tables in this module are derived from the entity declarations in the W3C XHTML specification.

Currently (October 2001), that's these three:

http://www.w3.org/TR/xhtml1/DTD/xhtml-lat1.ent
http://www.w3.org/TR/xhtml1/DTD/xhtml-special.ent
http://www.w3.org/TR/xhtml1/DTD/xhtml-symbol.ent

=head1 AUTHOR

Sean M. Burke <sburke@cpan.org>

Now being maintained by Neil Bowers <neilb@cpan.org>

=cut

#~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
# What I used for reading the XHTML .ent files:

my(@norms, @good, @bad);
my $dir = 'c:/sgml/docbook/';
my %escapes;
foreach my $file qw(
   xhtml-symbol.ent
   xhtml-lat1.ent
   xhtml-special.ent
)) { open(IN, "<$dir$file") or die "can't read-open $dir$file: $!";
   print "Reading $file...
   
   while(<IN>) {
      if(m/<!ENTITY\s+(\S+)(\$+)&#$1;>/) {
         my($name, $value) = ($1,$2);
         next if $name eq 'quot' or $name eq 'apos' or $name eq 'gt';
         if($value !~ m/\d+/s) {
            push @good , sprintf "   %-10s , chr(%s),
            push @bad  , sprintf "   %-10s , \$bad,
            push @norms, sprintf " %-10s , chr(%s),
         } else {
            push @good , sprintf "   %-10s , chr($value),
            push @bad  , sprintf "   %-10s , \$bad,$value,
            push @norms, sprintf " %-10s , chr($value),
         } else {;
            push @good , sprintf "   %-10s , chr($value),
            push @bad  , sprintf "   %-10s , \$bad,$value,
            push @norms, sprintf " %-10s , chr($value),
         }
      }
      elsif(m/<!ENT/) { print "# Skipping $_;";
   }
   }
   print "# ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
   
   $value = hex $1 if $value =~ m/\x([a-fA-F0-9]+)?$/s;
   print "ILLEGAL VALUE $value" unless $value =~ m/\d+/s;
   if($value > 255) {
      push @good , sprintf "   %-10s , chr(%s),
      push @bad  , sprintf "   %-10s , \$bad,$value,
      push @norms, sprintf " %-10s , chr($value),
   } else {
      push @good , sprintf "   %-10s , chr($value),
      push @bad  , sprintf "   %-10s , \$bad,$value,
      push @norms, sprintf " %-10s , chr($value),
   }
   }
   elsif(m/<!ENT/) { print "# Skipping $_;";
print @norms;
print "\n( $\] = 5.006001 \? (\n";
print @good;
print " ) : (\n";
print @bad;
print " )\n";

__END__

#~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Found in path(s):
  * /opt/cola/permits/1185063554_1627672341.04/0/perl-Pod-Escapes-1.07-395.el8-1.src.rpm-cosi-expand-archive-
    GEpX7CJ0/Pod-Escapes-1.07.tar.gz-cosi-expand-archive-P8BqAcbc/Pod-Escapes-1.07/lib/Pod/Escapes.pm
No license file was found, but licenses were detected in source scan.

---
abstract: unknown
author:
  - unknown
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.02, CPAN::Meta::Converter version 2.143240'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Pod-Escapes
no_index:
directory:
  - t
  - inc
requires:
  Exporter: '0'
  perl: '5.006'
  strict: '0'
  vars: '0'
  warnings: '0'
resources:
  repository: git://github.com/neilbowers/Pod-Escapes.git
version: '1.07'
1.879 github.com/uber/tchannel-go 1.16.0

1.879.1 Available under license:

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1.880 krb5-libs 1.18.2-5.el8

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```

cmd/krb5/iprop/iprop.x

cmd/krb5/iprop/iprop_hdr.h

cmd/krb5/kadmin/server/ipropd_svc.c

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

lib/libgss/g_acquire_cred.c

lib/libgss/g_canon_name.c

lib/libgss/g_compare_name.c

lib/libgss/g_context_time.c

lib/libgss/g_delete_sec_context.c

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

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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_cred.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
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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
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/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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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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mpi/hppa1.1/udiv-qrnd.S, mpi/hppa1.1/mpih-mul2.S,
mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c,
tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c,
tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

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(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex.
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LIBGCrypt  Ulrich Müller  2012-02-15
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Most of the stuff in mpi has been taken from an old GMP library version by Torbjorn Granlund <tege@noisy.tmg.se>.

The files cipher/rndunix.c and cipher/rndw32.c are based on those

The ECC code cipher/ecc.c was based on code by Sergi Blanch i Torne, sergi at calcurco dot org.

The implementation of the Camellia cipher has been been taken from the original NTT provided GPL source.

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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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Richard Outerbridge

DES core in libhcrypto

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  lib/gssapi/generic/gssapi_err_generic.et
  lib/gssapi/mechglue/g_acquire_cred.c
  lib/gssapi/mechglue/g_accept_sec_context.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_dup_name.c
  lib/gssapi/mechglue/g_dsp_name.c
  lib/gssapi/mechglue/g_exp_sec_context.c
  lib/gssapi/mechglue/g_export_name.c
  lib/gssapi/mechglue/g_context_time.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
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
slave/kpropd_rpc.c
slave/kproplog.c

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1.913 pollinate 4.33 0ubuntu1~18.04.2

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Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
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1.927 libkrbsupport 1.17 3

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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
slave/kpropd_rpc.c
slave/kproplog.c
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1.937 zlib 1.2.11 r3

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Protocol Buffers for Go with Gadgets

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lib/gssapi/mechglue/g_acquire_cred.c
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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/gdsp_name.c
lib/gssapi/mechglue/gdsp_status.c
and the initial implementation of incremental propagation, including
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kadmin/server/ipropd_svc.c
lib/kdb/prop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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1.966 hashicorp-consul-api 1.10.1

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package api

import (  
    "io/ioutil"  
    "strings"  
    "time"
)

type License struct {  
    // The unique identifier of the license  
    LicenseID string `json:"license_id"`

    // The customer ID associated with the license  
    CustomerID string `json:"customer_id"`

    // If set, an identifier that should be used to lock the license to a  
    // particular site, cluster, etc.  
    InstallationID string `json:"installation_id"`

    // The time at which the license was issued  
    IssueTime time.Time `json:"issue_time"`

    // The time at which the license starts being valid  
    StartTime time.Time `json:"start_time"`

    // The time after which the license expires  
    ExpirationTime time.Time `json:"expiration_time"`

    // The time at which the license ceases to function and can  
    // no longer be used in any capacity  
    TerminationTime time.Time `json:"termination_time"`

    // The product the license is valid for  
    Product string `json:"product"`

    // License Specific Flags  
    Flags map[string]interface{} `json:"flags"`

    // Modules is a list of the licensed enterprise modules  
    Modules []string `json:"modules"`

    // List of features enabled by the license  
    Features []string `json:"features"`
}
type LicenseReply struct {
    Valid bool
    License *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return "", err
    }
    defer closeResponseBody(resp)
    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return "", err
    }
    return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
if err := decodeBody(resp, &reply); err != nil {
    return nil, err
}
return &reply, nil

// LicensePut will configure the Consul Enterprise license for the target datacenter
// // DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
}

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

------------------------------------------

---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>,'
- "Development questions, bug reports, and patches should be sent to the
  Module-Build mailing list at <module-
bUILD@perl.org>.'
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
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The End

#!/perl

=head1 NAME
copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the \nC<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the \C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
  skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
  my $current_year = (gmtime)[5] + 1900;
  is $v_year, $current_year, 'perl -v copyright includes current year';
  is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "",
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*\b(\d{4,})/s
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
        or die "Copyright statement not found in perl -v output '$output'";

    $year;
}

1.971 ebtables 2.0.11-4~bpo10+1
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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

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.

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<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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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!
--------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)
--------

Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan
=20
------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
From: cracklib-devel-bounces@li...
[mailto:cracklib-devel-bounces@li...]

Sent: Monday, October 01, 2007 8:15 PM
To: cracklib-devel@li...
Subject: [Cracklib-devel] cracklib license

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didn't notice the license=
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isn't the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec
directly
> and see if he wants to relicense his code as LGPL... but at this
> point,
> it was enough to just get it consistent and documented as to what
> it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.
> the original license (before moving to sourceforge -- aka, 2.7) was
> not
> GPL-2 ... it was a modified artistic license ... i didn't notice the
> license
> change until it was mentioned in the latest notes.
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong, it isn't the
> place of a
> library to dictate to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL....

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Fry sing er <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > > Seems like the ideal thing here would be for you and the other distro
> > > > maintainers to get together with Alec in a conversation and come to a
> > > > decision as to what licensing scheme y'all want. I haven't really done
> > > > much other than cleaning up the packaging and patches and a small
> > > > bit of
> > > > additional code, so whatever licensing y'all come up with is fine
> > > > by me.
> > >
> > > I am sympathetic. Guys, what do you reckon?
> > >
> > > What I am hearing so far is that LGPL makes sense, since it can be
> > > linked with any code, not just GPL....
> >
> > My apologies for not chiming in in anything resembling a reasonable
timeframe.
> >
> > I'd also suggest the LGPL, for the reason you noted above. Alternately,
> > GPLv2 with the option of using the library under a later version of the
> > GPL would permit applications which were released under version 3 of the
> > GPL to use the library, too, which would be sufficient for the packages
> > which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> > In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
  > >> In any case, I thank you both for working on sorting this out.
  > >
  > > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
  > > make the change now ?
  >
  > yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

-------------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
-------------

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.

--------------------------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.988 npm-logical-tree 1.2.1

1.988.1 Available under license:

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1.989 iterall 1.3.0

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1.990 ajv 6.12.6
1.990.1 Available under license:
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1.991 apollo-server-caching 0.7.0
1.991.1 Available under license:
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1.992 libpkit 0.23.15 2

1.992.1 Available under license:

Format: http://dep.debian.net/deps/dep5
Upstream-Name: p11-kit
Source: https://p11-glue.github.io/p11-glue/p11-kit.html

Files: *
Copyright: 2011 Collabora Ltd.
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Files: p11-kit/conf.* p11-kit/proxy.c
common/dict.c common/dict.h
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2004 Stefan Walter
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Files: p11-kit/modules.c
common/dict.c common/dict.h
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Files: common/buffer.c common/buffer.h
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Files: common/library.c common/library.h common/message.c
p11-kit/client-init.c p11-kit/proxy-init.c common/init.h
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Files: p11-kit/log.c
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PURPOSE. */

Files: common/argv.c common/argv.h common/hash.h
trust/oid.c trust/oid.h
trust/pem.c trust/pem.h common/argv.c common/argv.h common/pkcs11x.h
common/pkcs11i.h
common/test-constants.c common/test-hash.c
p11-kit/pkcs11.h p11-kit/test-managed.c
trust/builder.c trust/builder.h trust/digest.h trust/module.c
trust/module.h trust/module-init.c trust/pem.c
trust/pem.h trust/oid.c trust/oid.h trust/parser.h
trust/session.c trust/session.h trust/frob-cert.c
trust/frob-eku.c trust/frob-token.c
trust/test-digest.c trust/test-enumerate.c
trust/test-index.c trust/test-module.c trust/test-oid.c
trust/test-parser.c trust/test-pem.c trust/test-token.c
trust/token.c trust/token.h trust/test-trust.c
trust/test-trust.h trust/x509.c trust/x509.h p11-kit/frob-setuid.c
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Files: common/attrs.c common/attrs.h
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Open Source Used In Intersight Kubernetes Service 1.0.15 9138

Files: common/test-attrs.c common/test-buffer.c
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Files: common/constants.c common/constants.h common/test.c
common/test.h common/test-compat.c common/test-tests.c
common/tool.h p11-kit/deprecated.h
p11-kit/docs.h p11-kit/log.h p11-kit/modules.h p11-kit/proxy.h
p11-kit/test-log.c trust/anchor.c trust/anchor.h
trust/enumerate.c trust/enumerate.h trust/extract.c
trust/extract-cer.c trust/extract.h
trust/extract-openssl.c trust/extract-pem.c trust/index.c
trust/index.h trust/list.c trust/list.h trust/persist.c
trust/persist.h trust/save.c trust/save.h trust/frob-bc.c
trust/frob-ext.c trust/frob-pow.c
trust/test-base64.c
trust/test-builder.c trust/test-save.c
trust/test-utf8.c trust/test-x509.c
trust/types.h trust/utf8.c trust/utf8.h
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Files: p11-kit/remote.h common/frob-getenv.c
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Files: p11-kit/server.c
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Comment: make_private_security_descriptor() and the helper functions were
* copied from putty/windows/winsecur.c in the PuTTY source code as of
* git commit 12bd5a6c722152aa27f24598785593e72b3284ea.
*
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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 libhcrypto

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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
Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau,
for humouring me on.

(GEnie : OUTER; CIS : [71755,204]) Graven Imagery, 1992.

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Windows support

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lib/hcrypto/test_dh.c

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1.1003 github.com/safchain/ethtool 0.0.0-20201023143004-874930cb3ce0

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

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

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
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:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.

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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.

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.

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**1.1012 debian-archive-keyring 2019.1**

**1.1012.1 Available under license:**

This is Debian GNU's GnuPG keyrings of archive keys.

This package was originally put together by Michael Vogt <mvo@debian.org>

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1.1021 python3-asn1crypto 0.24.0 1

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import (  "context"  "crypto/hmac"  "crypto/sha256"  "encoding/base64"  "encoding/json"  "fmt"  "time"
  "github.com/docker/libtrust"  "github.com/docker/licensing/lib/errors"  "github.com/docker/licensing/lib/go-clientlib"  "github.com/docker/licensing/model"
)

func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {  
url := c.baseURI  
url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)

license := new(model.IssuedLicense)  
if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {  
return nil, err  
}

return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not  // interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {  
keyID := license.KeyID  
privateKey := license.PrivateKey

authorization, err := c.getAuthorization(ctx, license)  
if err != nil {  
return nil, err  
}

// TODO: Mason - replace this parseJWS with a non libtrust lib  signature, err := libtrust.ParseJWS(authorization)  
if err != nil {  
return nil, errors.Wrap(err, errors.Fields{  
"key_id": keyID,  
}. "license parse JWS failed")
}

keys, err := signature.Verify()  
if err != nil {
keyCnt := len(keys)
if keyCnt != 1 {
    err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
    return nil, errors.WithStack(err).With(errors.Fields{
        "key_id": keyID,
    })
}

key := keys[0]
if !c.recognizedSigningKey(key) {
    return nil, errors.New("unrecognized signing key")
}

payload, err := signature.Payload()
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "malformed signature payload")
}

checkRes := new(model.CheckResponse)
err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    })
}

return checkRes, nil

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if c.recognizedSigningKey(key) {
            return true
        }
    }
    return false
}
if key.KeyID() == publicKey.KeyID() {
    return true
}
return false

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": license.KeyID,
        }, "decoding license authorization failed")
    }
    return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the message with the privateKey via GenerateToken) with the purpose of authenticating the validity of both the message and the private key of the person who generated the token.
func checkToken(message, token, privateKey string) error {
    tokenBytes, err := base64.URLEncoding.DecodeString(token)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }
    generatedToken, err := generateToken(message, privateKey)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }
    generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }
    if !hmac.Equal(tokenBytes, generatedBytes) {
        return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
    }
    return nil
}
// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
key, err := base64.URLEncoding.DecodeString(privateKey)
if err != nil {
return "", errors.Wrap(err, errors.Fields{"msg": message})
}
h := hmac.New(sha256.New, key)
h.Write([]byte(message))
return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}
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package formatter

import (  
"time"

"github.com/docker/cli/internal/licenseutils"
"github.com/docker/licensing/model"
)

const (  
defaultSubscriptionsTableFormat = "table
  {{.Num}}	{{.Owner}}	{{.ProductID}}	{{.Expires}}	{{.ComponentsString}}"

defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"
)

numHeader               = "NUM"
ownerHeader             = "OWNER"
licenseNameHeader       = "NAME"
idHeader                = "ID"
dockerIDHeader          = "DOCKER ID"
productIDHeader         = "PRODUCT ID"
productRatePlanHeader   = "PRODUCT RATE PLAN"
productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
startHeader             = "START"
expiresHeader           = "EXPIRES"
stateHeader             = "STATE"
eusaHeader              = "EUSA"
pricingComponentsHeader = "PRICING COMPONENTS"

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) Format {
    switch source {
    case TableFormatKey:
        if quiet {
            return defaultSubscriptionsQuietFormat
        }
        return defaultSubscriptionsTableFormat
    case RawFormatKey:
        if quiet {
            return `license: {{.ID}}`
        }
        return `license: {{.ID}}
name: {{.Name}}
owner: {{.Owner}}
components: {{.ComponentsString}}
`
type licenseContext struct {
    HeaderContext
    trunc bool
    l     licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
    return marshalJSON(c)
}

func (c *licenseContext) Num() int {
    return c.l.Num
}

func (c *licenseContext) Owner() string {
    return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {
    return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
    return c.l.String()
}

func (c *licenseContext) Name() string {
    return c.l.Name
}

func (c *licenseContext) ID() string {
    return c.l.ID
}

func (c *licenseContext) DockerID() string {
    return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
    return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
    return c.l.ProductRatePlan
}
func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
    return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
    return c.l.Expires
}

func (c *licenseContext) State() string {
    return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
    return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
    // Dereference the pricing component pointers in the pricing components
    // so it can be rendered properly with the template formatter

    var ret []model.SubscriptionPricingComponent
    for _, spc := range c.l.PricingComponents {
        if spc == nil {
            continue
        }
        ret = append(ret, *spc)
    }
    return ret
}

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import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed
// json blob.
type CheckResponse struct {
    Expiration time.Time `json:"expiration"
    Token string `json:"token"
    MaxEngines int `json:"maxEngines"
    ScanningEnabled bool `json:"scanningEnabled"
    Type string `json:"licenseType"
    Tier string `json:"tier"
}

// IssuedLicense represents an issued license
type IssuedLicense struct {
    KeyID    string `json:"key_id"`
    PrivateKey    string `json:"private_key"`
    Authorization string `json:"authorization"`
}

// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
    if l.KeyID == "" {
        return false, "empty key_id"
    }

    if l.PrivateKey == "" {
        return false, "empty private_key"
    }

    if l.Authorization == "" {
        return false, "empty authorization"
    }

    return true, ""
}

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vendor/github.com/gogo/googleapis
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vendor/github.com/go-ini/ini
~vendor/github.com/golang/gddo
vendor/github.com/golang/glog
vendor/github.com/golang/protobuf
vendor/github.com/googleapis/gax-go
vendor/github.com/googleapis/gnostic
vendor/github.com/google/btree
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vendor/github.com/gorilla/handlers
vendor/github.com/gorilla/mux
~vendor/github.com/Graylog2/go-gelf
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vendor/github.com/hashicorp/consul
vendor/github.com/hashicorp/errwrap
~vendor/github.com/hashicorp/go-immutable-radix
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vendor/github.com/hashicorp/go-msgpack
vendor/github.com/hashicorp/go-multierror
vendor/github.com/hashicorp/go-sockaddr
vendor/github.com/hashicorp/go-version
vendor/github.com/hashicorp/memberlist
vendor/github.com/hashicorp/serf
vendor/github.com/shurcooL/sanitized_anchor_name
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package formatter

import (    "bytes"    "encoding/json"    "strings"    "testing"    "time"
    "github.com/docker/cli/internal/licenseutils"    "github.com/docker/licensing/model"    "gotest.tools/assert"
    is "gotest.tools/assert/cmp"
)

func TestSubscriptionContextWrite(t *testing.T) {
    cases := []struct {
        context  Context
        expected string
    }{
        // Errors
        {
            Context{Format: "{{InvalidFunction}}"},
            `Template parsing error: template: :1: function "InvalidFunction" not defined
             `,
        },
        {
            Context{Format: "{{nil}}"},
            `Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command
             `,
        },
        // Table format
        {
            Context{Format: NewSubscriptionsFormat("table", false)},
            `NUM                 OWNER               PRODUCT ID          EXPIRES                         PRICING COMPONENTS
1                   owner1              productid1          2020-01-01 10:00:00 +0000 UTC   compstring
2                   owner2              productid2          2020-01-01 10:00:00 +0000 UTC   compstring
             `,
        },
        {
            Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
            `1:License Name: name1Quantity: 10 nodesExpiration date: 2020-01-01
2:License Name: name2Quantity: 20 nodesExpiration date: 2020-01-01
             `,
        },
    }
}

func NewSubscriptionsFormat(format string, showOwner bool) string {
    return fmt.Sprintf(format, showOwner)
}
'OWNER
owner1
owner2
'
},
{ Context[Format: NewSubscriptionsFormat("table {{.Owner}}", true)],
'OWNER
owner1
owner2
'
},
// Raw Format
{
Context[Format: NewSubscriptionsFormat("raw", false)],
'license: id1
name: name1
owner: owner1
components: compstring

license: id2
name: name2
owner: owner2
components: compstring
'
},
{ Context[Format: NewSubscriptionsFormat("raw", true)],
'license: id1
license: id2
',
},
// Custom Format
{
Context[Format: NewSubscriptionsFormat("{{.Owner}}", false)],
'owner1
owner2
'
},
}
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
subscriptions := []licenseutils.LicenseDisplay{
{ Num: 1,
func TestSubscriptionContextWriteJSON(t *testing.T) {
    expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num:   2,
            Owner: "owner2",
            Subscription: model.Subscription{
                ID:        "id2",
                Name:      "name2",
                ProductID: "productid2",
                Expires:   &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name:  "nodes",
                        Value: 20,
                    },
                },
                ComponentsString: "compstring",
            },
        },
        {
            Num:   1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID:        "id1",
                Name:      "name1",
                ProductID: "productid1",
                Expires:   &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name:  "nodes",
                        Value: 10,
                    },
                },
                ComponentsString: "compstring",
            },
        },
    }
    out := &bytes.Buffer{}
    testcase.context.Output = out
    err := SubscriptionsWrite(testcase.context, subscriptions)
    if err != nil {
        assert.Error(t, err, testcase.expected)
    } else {
        assert.Check(t, is.Equal(testcase.expected, out.String()))
    }
}

Num: 1,
Owner: "owner1",
Subscription: model.Subscription{
  ID:     "id1",
  Name:   "name1",
  ProductID: "productid1",
  Expires: &expiration,
  PricingComponents: model.PricingComponents{
    &model.SubscriptionPricingComponent{
      Name:  "nodes",
      Value: 10,
    },
  },
  ComponentsString: "compstring",
},
{
  Num: 2,
  Owner: "owner2",
  Subscription: model.Subscription{
    ID:     "id2",
    Name:   "name2",
    ProductID: "productid2",
    Expires: &expiration,
    PricingComponents: model.PricingComponents{
      &model.SubscriptionPricingComponent{
        Name:  "nodes",
        Value: 20,
      },
    },
    ComponentsString: "compstring",
  },
}

expectedJSONs := []map[string]interface{}{
  {
    "Owner": "owner1",
    "ComponentsString": "compstring",
    "Expires": "2020-01-01T10:00:00Z",
    "DockerID": "",
    "Eusa": nil,
    "ID": "id1",
    "Start": nil,
    "Name": "name1",
    "Num": float64(1),
    "PricingComponents": []interface{}{
      map[string]interface{}{
        "name": "nodes",
      },
    },
  },
}
"value": float64(10),
],
],
"ProductID": "productid1",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01",
],
{
"Owner": "owner2",
"ComponentsString": "compstring",
"Expires": "2020-01-01T10:00:00Z",
"DockerID": "",
"Eusa": nil,
"ID": "id2",
"Start": nil,
"Name": "name2",
"Num": float64(2),
"PricingComponents": []interface{}{
map[string]interface{}{
"name": "nodes",
"value": float64(20),
},
},
"ProductID": "productid2",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01",
],
}
out := &bytes.Buffer{
err := SubscriptionsWrite(Context{Format: "{{json .}}", Output: out}, subscriptions)
if err != nil {
    t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
    var m map[string]interface{}
    if err := json.Unmarshal([]byte(line), &m); err != nil {
        t.Fatal(err)
    }
    assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}

func TestSubscriptionContextWriteJSONField(t *testing.T) {


subscriptions := []licenseutils.LicenseDisplay{
    {Num: 1, Owner: "owner1"},
    {Num: 2, Owner: "owner2"},
}
out := &bytes.Buffer{
err := SubscriptionsWrite(Context{Format: "{{json .Owner}}", Output: out}, subscriptions)
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
    var s string
    if err := json.Unmarshal([]byte(line), &s); err != nil {
t.Fatal(err)
    }
    assert.Check(t, is.Equal(subscriptions[i].Owner, s))
}
}

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1.1027 perl-digest 1.17-395.el8

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=head1 NAME

Digest - Modules that calculate message digests

=head1 SYNOPSIS

$md5 = Digest->new("MD5");
$sha1 = Digest->new("SHA-1");
$sha256 = Digest->new("SHA-256");
$sha384 = Digest->new("SHA-384");
$sha512 = Digest->new("SHA-512");

$hmac = Digest->HMAC_MD5($key);

=head1 DESCRIPTION

The C<Digest::> modules calculate digests, also called "fingerprints" or "hashes", of some data, called a message. The digest is (usually) some small/fixed size string. The actual size of the digest depend of the algorithm used. The message is simply a sequence of arbitrary bytes or bits.

An important property of the digest algorithms is that the digest is I<likely> to change if the message change in some way. Another property is that digest functions are one-way functions, that is it should be I<hard> to find a message that correspond to some given digest. Algorithms differ in how "likely" and how "hard", as well as how efficient they are to compute.

Note that the properties of the algorithms change over time, as the algorithms are analyzed and machines grow faster. If your application for instance depends on it being "impossible" to generate the same digest for a different message it is wise to make it easy to plug in stronger algorithms as the one used grow weaker. Using the interface documented here should make it easy to change algorithms later.
All C<Digest::> modules provide the same programming interface. A functional interface for simple use, as well as an object oriented interface that can handle messages of arbitrary length and which can read files directly.

The digest can be delivered in three formats:

=over 8

=item I<binary>

This is the most compact form, but it is not well suited for printing or embedding in places that can't handle arbitrary data.

=item I<hex>

A twice as long string of lowercase hexadecimal digits.

=item I<base64>

A string of portable printable characters. This is the base64 encoded representation of the digest with any trailing padding removed. The string will be about 30% longer than the binary version. L<MIME::Base64> tells you more about this encoding.

=back

The functional interface is simply importable functions with the same name as the algorithm. The functions take the message as argument and return the digest. Example:

use Digest::MD5 qw(md5);
$digest = md5($message);

There are also versions of the functions with "_hex" or "_base64" appended to the name, which returns the digest in the indicated form.

=head1 OO INTERFACE

The following methods are available for all C<Digest::> modules:

=over 4

=item $ctx = Digest->XXX($arg,...)

=item $ctx = Digest->new(XXX => $arg,...)
The constructor returns some object that encapsulate the state of the message-digest algorithm. You can add data to the object and finally ask for the digest. The "XXX" should of course be replaced by the proper name of the digest algorithm you want to use.

The two first forms are simply syntactic sugar which automatically load the right module on first use. The second form allow you to use algorithm names which contains letters which are not legal perl identifiers, e.g. "SHA-1". If no implementation for the given algorithm can be found, then an exception is raised.

If new() is called as an instance method (i.e. $ctx->new) it will just reset the state the object to the state of a newly created object. No new object is created in this case, and the return value is the reference to the object (i.e. $ctx).

The clone method creates a copy of the digest state object and returns a reference to the copy.

This is just an alias for $ctx->new.

The string value of the $data provided as argument is appended to the message we calculate the digest for. The return value is the $ctx object itself.

If more arguments are provided then they are all appended to the message, thus all these lines will have the same effect on the state of the $ctx object:

Most algorithms are only defined for strings of bytes and this method might therefore croak if the provided arguments contain chars with ordinal number above 255.
=item $ctx->addfile( $io_handle )

The $io_handle is read until EOF and the content is appended to the message we calculate the digest for. The return value is the $ctx object itself.

The addfile() method will croak() if it fails reading data for some reason. If it croaks it is unpredictable what the state of the $ctx object will be in. The addfile() method might have been able to read the file partially before it failed. It is probably wise to discard or reset the $ctx object if this occurs.

In most cases you want to make sure that the $io_handle is in "binmode" before you pass it as argument to the addfile() method.

= item $ctx->add_bits( $data, $nbits )

= item $ctx->add_bits( $bitstring )

The add_bits() method is an alternative to add() that allow partial bytes to be appended to the message. Most users should just ignore this method as partial bytes is very unlikely to be of any practical use.

The two argument form of add_bits() will add the first $nbits bits from $data. For the last potentially partial byte only the high order \( C^<< \) $nbits % 8 \( C^>> \) bits are used. If $nbits is greater than \( C^<< \) length($data) * 8 \( C^>> \), then this method would do the same as \( C^<< \) $ctx->add($data) \( C^>> \).

The one argument form of add_bits() takes a $bitstring of "1" and "0" chars as argument. It's a shorthand for \( C^<< \) $ctx->add_bits(pack("B*", $bitstring), length($bitstring)) \( C^>> \).

The return value is the $ctx object itself.

This example shows two calls that should have the same effect:

$ctx->add_bits("11100001010");
$ctx->add_bits("xF0xA0", 12);

Most digest algorithms are byte based and for these it is not possible to add bits that are not a multiple of 8, and the add_bits() method will croak if you try.

= item $ctx->digest
Return the binary digest for the message.

Note that the C<digest> operation is effectively a destructive, read-once operation. Once it has been performed, the $ctx object is automatically C<reset> and can be used to calculate another digest value. Call $ctx->clone->digest if you want to calculate the digest without resetting the digest state.

=item $ctx->hexdigest

Same as $ctx->digest, but will return the digest in hexadecimal form.

=item $ctx->b64digest

Same as $ctx->digest, but will return the digest as a base64 encoded string.

=head1 Digest speed

This table should give some indication on the relative speed of different algorithms. It is sorted by throughput based on a benchmark done with of some implementations of this API:

<table>
<thead>
<tr>
<th>Algorithm</th>
<th>Size</th>
<th>Implementation</th>
<th>MB/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>MD4</td>
<td>128</td>
<td>Digest::MD4 v1.3</td>
<td>165.0</td>
</tr>
<tr>
<td>MD5</td>
<td>128</td>
<td>Digest::MD5 v2.33</td>
<td>98.8</td>
</tr>
<tr>
<td>SHA-256</td>
<td>256</td>
<td>Digest::SHA2 v1.1.0</td>
<td>66.7</td>
</tr>
<tr>
<td>SHA-1</td>
<td>160</td>
<td>Digest::SHA v4.3.1</td>
<td>58.9</td>
</tr>
<tr>
<td>SHA-1</td>
<td>160</td>
<td>Digest::SHA1 v2.10</td>
<td>48.8</td>
</tr>
<tr>
<td>SHA-256</td>
<td>256</td>
<td>Digest::SHA v4.3.1</td>
<td>41.3</td>
</tr>
<tr>
<td>Haval-256</td>
<td>256</td>
<td>Digest::Haval256 v1.0.4</td>
<td>39.8</td>
</tr>
<tr>
<td>SHA-384</td>
<td>384</td>
<td>Digest::SHA2 v1.1.0</td>
<td>19.6</td>
</tr>
<tr>
<td>SHA-512</td>
<td>512</td>
<td>Digest::SHA2 v1.1.0</td>
<td>19.3</td>
</tr>
<tr>
<td>SHA-384</td>
<td>384</td>
<td>Digest::SHA v4.3.1</td>
<td>19.2</td>
</tr>
<tr>
<td>SHA-512</td>
<td>512</td>
<td>Digest::SHA v4.3.1</td>
<td>19.2</td>
</tr>
<tr>
<td>Whirlpool</td>
<td>512</td>
<td>Digest::Whirlpool v1.0.2</td>
<td>13.0</td>
</tr>
<tr>
<td>MD2</td>
<td>128</td>
<td>Digest::MD2 v2.03</td>
<td>9.5</td>
</tr>
<tr>
<td>Adler-32</td>
<td>32</td>
<td>Digest::Adler32 v0.03</td>
<td>1.3</td>
</tr>
<tr>
<td>CRC-16</td>
<td>16</td>
<td>Digest::CRC v0.05</td>
<td>1.1</td>
</tr>
<tr>
<td>CRC-32</td>
<td>32</td>
<td>Digest::CRC v0.05</td>
<td>1.1</td>
</tr>
<tr>
<td>MD5</td>
<td>128</td>
<td>Digest::Perl::MD5 v1.5</td>
<td>1.0</td>
</tr>
<tr>
<td>CRC-CCITT</td>
<td>16</td>
<td>Digest::CRC v0.05</td>
<td>0.8</td>
</tr>
</tbody>
</table>

These numbers was achieved Apr 2004 with ActivePerl-5.8.3 running
under Linux on a P4 2.8 GHz CPU. The last 5 entries differ by being 
pure perl implementations of the algorithms, which explains why they 
are so slow.

=head1 SEE ALSO

L<Digest::Adler32>, L<Digest::CRC>, L<Digest::Haval256>,
L<Digest::HMAC>, L<Digest::MD2>, L<Digest::MD4>, L<Digest::MD5>,
L<Digest::SHA>, L<Digest::SHA1>, L<Digest::SHA2>, L<Digest::Whirlpool>

New digest implementations should consider subclassing from L<Digest::base>.

L<MIME::Base64>

http://en.wikipedia.org/wiki/Cryptographic_hash_function

=head1 AUTHOR

Gisle Aas <gisle@aas.no>

The C<Digest::> interface is based on the interface originally 
developed by Neil Winton for his C<MD5> module.

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=cut

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* /opt/cola/permits/1185063519_1627671836.58/0/perl-Digest-1.17-395.el8-1.src.rpm-cosi-expand-archive-
EEfyO8lo/Digest-1.17.tar.gz-cosi-expand-archive-97OgkPxj/Digest-1.17/Digest.pm
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EEfyO8lo/perl-Digest.spec
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This is just a simple frontend module for autoloading of various 
Digest:: modules. It also provide documentation of the interface that 
all Digest:: modules should provide.

You will need perl version 5.004 or better to install this module.
1.1028 toidentifier 1.0.0

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1.1029 uuid-runtime 2.31.1 0.4ubuntu3.7

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1.1042 libnpmsearch 2.0.2

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name: Continuous Integration - License

on:
push:
  branches: [ master ]
pull_request:
  branches: [ master ]

jobs:
  check:
    name: Check
    runs-on: ubuntu-latest
env:
  NG_CLI_ANALYTICS: ci
  GO111MODULE: on
  GOPROXY: "https://proxy.golang.org"
  NODE_OPTIONS: "--max-old-space-size=8192"
  TERM: xterm

steps:
  - name: Setup Environment
    uses: actions/checkout@v2
    with:
      fetch-depth: 0

  - name: Setup NodeJS
    uses: actions/setup-node@v2.1.2
    with:
      node-version: 12.6.0

  - name: Cache Node Modules
    uses: actions/cache@v2
    env:
      cache-name: cache-node-modules
    with:
      path: node_modules
      key: ${{ runner.os }}-build-${{ env.cache-name }}-${{ hashFiles('**/package-lock.json') }}

  - name: Install Dependencies
    shell: bash
    run: |
      [ ! -d "node_modules" ] &&
      npm ci ||
      node aio/scripts/version.js &&
      command -v golangci-lint >/dev/null
      2>&1 ||
      [ "curl -sSL https://raw.githubusercontent.com/golangci/golangci-lint/master/install.sh" sh -s -- -b $(go env GOPATH)/bin v1.30.0; ]
      &&
      go mod download

  - name: Check License
    shell: bash
    run: |
      export GOPATH=$(go env GOPATH)/bin
      npm run check:license

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package cloud

import {
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
}

var sentinels = []string{
    "Copyright",
    "Google"},
Licensed under the Apache License, Version 2.0 (the "License");

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk("./", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        ext := filepath.Ext(path)
        if ext != "\n" && ext != "\n proto" {
            return nil
        }
        if strings.HasSuffix(path, "pb.go") {
            // .pb.go files are generated from the proto files.
            // .proto files must have license headers.
            return nil
        }
        if path == "bigtable/cmd/cbt/cbtdoc.go" {
            // Automatically generated.
            return nil
        }
        if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
            // BSD license, which is compatible, is embedded in the file.
            return nil
        }
        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }
        src = src[:300] // Ensure all of the sentinel values are at the top of the file.
        // Find license
        for _, sentinel := range sentinels {
            if !bytes.Contains(src, []byte(sentinel)) {
                t.Errorf("%v: license header not present. want %q", path, sentinel)
                return nil
            }
        }
    })
    if err != nil {
        t.Fatal(err)
    }
}

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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The current ubuntu release can be found at:

The Debian tree is maintained with "git" at:
https://anonscm.debian.org/git/kernel/initramfs-tools.git
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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.

All Python releases are Open Source (see http://www.opensource.org for
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1.1056 libatomic 8.3.0 6
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bzip2/libbzip2 version 1.0.6 of 6 September 2010
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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.)

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If distribution of object code is made by offering access to copy
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distribute the source code, even though third parties are not
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5. A program that contains no derivative of any portion of the
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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.
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6. As an exception to the Sections above, you may also combine or
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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.

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obligated to ensure that it is available for as long as needed to
satisfy these requirements.

@item
Convey the object code using peer-to-peer transmission, provided you
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@end enumerate

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Version 2.1, February 1999

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DRuntime: Runtime Library for the D Programming Language

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========

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<td>lib/interception/mach_override</td>
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1.1058 adduser 3.118
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Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He rewrote most of it.

Since May 20 2000, it is maintained by Roland Bauerschmidt <rb@debian.org>.

Since March 24 2004, it is maintained by Roland Bauerschmidt <rb@debian.org>, and co-maintained by Marc Haber <mh+debian-packages@zugschluss.de>

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dateutil - Extensions to the standard Python datetime module.

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1.1062 perl-pod-simple 3.35-395.el8
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=head1 NAME
Pod::Simple::Text -- format Pod as plaintext

=head1 SYNOPSIS

perl -MPod::Simple::Text -e \
"exit Pod::Simple::Text->filter(shift)->any_errata_seen" \
thingy.pod
=head1 DESCRIPTION

This class is a formatter that takes Pod and renders it as wrapped plaintext.

Its wrapping is done by L<Text::Wrap>, so you can change C<$Text::Wrap::columns> as you like.

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::TextContent>, L<Pod::Text>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

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=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

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# TODO: let it be an option whether a given subclass even wants little treelets?

__END__

=head1 NAME

Pod::Simple::LinkSection -- represent "section" attributes of L codes

=head1 SYNOPSIS

# a long story

=head1 DESCRIPTION

This class is not of interest to general users.

Pod::Simple uses this class for representing the value of the "section" attribute of "L" start-element events. Most applications can just use the normal stringification of objects of this class; they stringify to just the text content of the section, such as "foo" for
C<< LZ<><Stuff/foo> >>, and "bar" for
C<< LZ<><Stuff/b Iz<><ar> >>.

However, anyone particularly interested in getting the full value of the treelet, can just traverse the content of the treelet
@treelet_object. To wit:

% perl -MData::Dumper -e
"use base qw(Pod::Simple::Methody);
sub start_L { print Dumper($_[1]{'section'}) }
__PACKAGE__->new->parse_string_document('=head1 L<Foo/bI<ar>baz>>')"

Output:
$VAR1 = bless( [
  '',
  {},
  'b',
  bless( [
    'T',
    {},
    'ar'
  ], 'Pod::Simple::LinkSection' ),
  'baz'
], 'Pod::Simple::LinkSection' );

But stringify it and you get just the text content:

% perl -MData::Dumper -e
"use base qw(Pod::Simple::Methody);
sub start_L { print Dumper(' ' . $_[1]{'section'}) }
__PACKAGE__->new->parse_string_document('=head1 L<Foo/bI<ar>baz>>')"

Output:
$VAR1 = 'barbaz';

=head1 SEE ALSO
L<Pod::Simple>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the
pod-people@perl.org mail list. Send an empty email to
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AUTHOR

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Pod::Simple is maintained by:

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  3.35/lib/Pod/Simple/LinkSection.pm
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NAME

Pod::Simple::RTF -- format Pod as RTF

SYNOPSIS

perl -MPod::Simple::RTF -e \
"exit Pod::Simple::RTF->filter(shift)->any_errata_seen" \
thingy.pod > thingy.rtf

DESCRIPTION
This class is a formatter that takes Pod and renders it as RTF, good for viewing/printing in MSWord, WordPad/write.exe, TextEdit, etc.

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 FORMAT CONTROL ATTRIBUTES

You can set these attributes on the parser object before you call C<parse_file> (or a similar method) on it:

=over
=item $parser->head1_halfpoint_size( I<halfpoint_integer> );
=item $parser->head2_halfpoint_size( I<halfpoint_integer> );
=item $parser->head3_halfpoint_size( I<halfpoint_integer> );
=item $parser->head4_halfpoint_size( I<halfpoint_integer> );
=over

These methods set the size (in half-points, like 52 for 26-point) that these heading levels will appear as.

=item $parser->codeblock_halfpoint_size( I<halfpoint_integer> );

This method sets the size (in half-points, like 21 for 10.5-point) that codeblocks ("verbatim sections") will appear as.

=item $parser->header_halfpoint_size( I<halfpoint_integer> );

This method sets the size (in half-points, like 15 for 7.5-point) that the header on each page will appear in. The header is usually just "I<modulename> p. I<pagenumber>".

=item $parser->normal_halfpoint_size( I<halfpoint_integer> );

This method sets the size (in half-points, like 26 for 13-point) that normal paragraphic text will appear in.

=item $parser->no_proofing_exemptions( I<true_or_false> );

Set this value to true if you don't want the formatter to try putting a hidden code on all Perl symbols (as best as it can notice them) that labels them as being not in English, and so not worth spellchecking.

=item $parser->doc_lang( I<microsoft_decimal_language_code> )
This sets the language code to tag this document as being in. By default, it is currently the value of the environment variable `C<RTFDEFLANG>`, or if that's not set, then the value 1033 (for US English).

Setting this appropriately is useful if you want to use the RTF to spellcheck, and/or if you want it to hyphenate right.

Here are some notable values:

1033  US English  
2057  UK English  
3081  Australia English  
4105  Canada English  
1034  Spain Spanish  
2058  Mexico Spanish  
1031  Germany German  
1036  France French  
3084  Canada French  
1035  Finnish  
1044  Norwegian (Bokmal)  
2068  Norwegian (Nynorsk)

If you are particularly interested in customizing this module's output even more, see the source and/or write to me.

=head1 SEE ALSO

L<Pod::Simple>, L<RTF::Writer>, L<RTF::Cookbook>, L<RTF::Document>, L<RTF::Generator>

=head1 SUPPORT

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Pod::Simple is maintained by:

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

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=head1 NAME

Pod::Simple::Checker -- check the Pod syntax of a document

=head1 SYNOPSIS

perl -MPod::Simple::Checker -e
"exit Pod::Simple::Checker->filter(shift)->any_errata_seen"
thingy.pod

=head1 DESCRIPTION

This class is for checking the syntactic validity of Pod.
It works by basically acting like a simple-minded version of
L::<Pod::Simple::Text> that formats only the "Pod Errors" section (if Pod::Simple even generates one for the given document).

This is a subclass of L::<Pod::Simple> and inherits all its methods.

=head1 SEE ALSO

L::<Pod::Simple>, L::<Pod::Simple::Text>, L::<Pod::Checker>

=head1 SUPPORT

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=head1 NAME
Pod::Simple::Debug -- put Pod::Simple into trace/debug mode

=head1 SYNOPSIS
use Pod::Simple::Debug (5);  # or some integer

Or:

my $debuglevel;
use Pod::Simple::Debug ($debuglevel, 0);
...some stuff that uses Pod::Simple to do stuff, but which
you don’t want debug output from...

$debug_level = 4;
...some stuff that uses Pod::Simple to do stuff, but which
you DO want debug output from...

$debug_level = 0;

=head1 DESCRIPTION
This is an internal module for controlling the debug level (a.k.a. trace
level) of Pod::Simple. This is of interest only to Pod::Simple
developers.

=head1 CAVEATS
Note that you should load this module I<before> loading Pod::Simple (or
any Pod::Simple-based class). If you try loading Pod::Simple::Debug
after &Pod::Simple::DEBUG is already defined, Pod::Simple::Debug will
throw a fatal error to the effect that
"It's too late to call Pod::Simple::Debug".

Note that the C<use Pod::Simple::Debug ($x, I<somenum>)> mode will make
Pod::Simple (et al) run rather slower, since &Pod::Simple::DEBUG won't
be a constant sub anymore, and so Pod::Simple (et al) won’t compile with
constant-folding.

=head1 GUTS

Doing this:

use Pod::Simple::Debug (5);  # or some integer

is basically equivalent to:

BEGIN { sub Pod::Simple::DEBUG () {5} }  # or some integer
use Pod::Simple ();

And this:

use Pod::Simple::Debug ($debug_level,0);  # or some integer

is basically equivalent to this:

my $debug_level;
BEGIN { $debug_level = 0 }
BEGIN { sub Pod::Simple::DEBUG () { $debug_level } }
use Pod::Simple ();

=head1 SEE ALSO

L<Pod::Simple>


=head1 SUPPORT

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=head1 NAME

Pod::Simple::HTML - convert Pod to HTML

=head1 SYNOPSIS

perl -MPod::Simple::HTML -e Pod::Simple::HTML::go thingy.pod

=head1 DESCRIPTION

This class is for making an HTML rendering of a Pod document.

This is a subclass of L<Pod::Simple::PullParser> and inherits all its methods (and options).
Note that if you want to do a batch conversion of a lot of Pod documents to HTML, you should see the module L<Pod::Simple::HTMLBatch>.

=head1 CALLING FROM THE COMMAND LINE

TODO

perl -MPod::Simple::HTML -e Pod::Simple::HTML::go Thing.pod Thing.html

=head1 CALLING FROM PERL

=head2 Minimal code

use Pod::Simple::HTML;
my $p = Pod::Simple::HTML->new;
$p->output_string(
my $html);
$p->parse_file('path/to/Module/Name.pm');
open my $out, '>', 'out.html' or die "Cannot open 'out.html': $!
";
print $out $html;

=head2 More detailed example

use Pod::Simple::HTML;

Set the content type:

$Pod::Simple::HTML::Content_decl = q{:meta http-equiv="Content-Type" content="text/html; charset=UTF-8"};

my $p = Pod::Simple::HTML->new;

Include a single javascript source:

$p->html_javascript('http://abc.com/a.js');

Or insert multiple javascript source in the header
(or for that matter include anything, thought this is not recommended)


Include a single css source in the header:
or insert multiple css sources:

```perl
$p->html_css('/style.css');

$fp->html_css(
    '<link rel="stylesheet" type="text/css" title="pod_stylesheet" href="http://remote.server.com/jquery.css">
    <link rel="stylesheet" type="text/css" title="pod_stylesheet" href="/style.css">');
```

Tell the parser where should the output go. In this case it will be placed in the $html variable:

```perl
my $html;
$p->output_string($html);
```

Parse and process a file with pod in it:

```perl
$p->parse_file('path/to/Module/Name.pm');
```

=head1 METHODS

TODO

all (most?) accessorized methods

The following variables need to be set B<before> the call to the ->new constructor.

Set the string that is included before the opening <html> tag:

```perl
$Pod::Simple::HTML::Doctype_decl = qq{"<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">"};
```

Set the content-type in the HTML head: (defaults to ISO-8859-1)

```perl
$Pod::Simple::HTML::Content_decl = q{<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" >};
```

Set the value that will be embedded in the opening tags of F, C tags and verbatim text.
F maps to <em>, C maps to <code>, Verbatim text maps to <pre> (Computerese defaults to "")

```perl
$Pod::Simple::HTML::Computerese = ' class="some_class_name';
```

=head2 html_css

=head2 html_javascript

=head2 title_prefix

=head2 title_postfix
=head2 html_header_before_title

This includes everything before the <title> opening tag including the Document type and including the opening <title> tag. The following call will set it to be a simple HTML file:

```
$p->html_header_before_title('<html><head><title>');
```

=head2 top_anchor

By default Pod::Simple::HTML adds a dummy anchor at the top of the HTML. You can change it by calling

```
$p->top_anchor('<a name="zz" >');
```

=head2 html_h_level

Normally =head1 will become <h1>, =head2 will become <h2> etc. Using the html_h_level method will change these levels setting the h level of =head1 tags:

```
$p->html_h_level(3);
```

Will make sure that =head1 will become <h3> and =head2 will become <h4> etc...

=head2 index

Set it to some true value if you want to have an index (in reality a table of contents) to be added at the top of the generated HTML.

```
$p->index(1);
```

=head2 html_header_after_title

Includes the closing tag of </title> and through the rest of the head till the opening of the body

```
$p->html_header_after_title('</title>...</head><body id="my_id">');
```

=head2 html_footer

The very end of the document:

```
$p->html_footer( qq
<!-- end doc -->

</body></html>

] );
```

=head1 SUBCLASSING
Can use any of the methods described above but for further customization one needs to override some of the methods:

```perl
package My::Pod;
use strict;
use warnings;

use base 'Pod::Simple::HTML';

# needs to return a URL string such
# http://some.other.com/page.html
# #anchor_in_the_same_file
# /internal/ref.html
sub do_pod_link {
    # My::Pod object and Pod::Simple::PullParserStartToken object
    my ($self, $link) = @_;

    say $link->tagname;          # will be L for links
    say $link->attr('to');       #
    say $link->attr('type');     # will be 'pod' always
    say $link->attr('section');

    # Links local to our web site
    if ($link->tagname eq 'L' and $link->attr('type') eq 'pod') {
        my $to = $link->attr('to');
        if ($to =~ /^Padre:/) {
            $to =~ s{::}{/}g;
            return '/docs/Padre/$to.html';
        }
    }

    # all other links are generated by the parent class
    my $ret = $self->SUPER::do_pod_link($link);
    return $ret;
}
```

Meanwhile in script.pl:

```perl
use My::Pod;

my $p = My::Pod->new;

my $html;
$p->output_string($html);
$p->parse_file('path/to/Module/Name.pm');
open my $out, '>', 'out.html' or die;
```
print $out $html;

TODO

maybe override do_beginning do_end

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::HTMLBatch>

TODO: a corpus of sample Pod input and HTML output? Or common idioms?

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

Copyright (c) 2002-2004 Sean M. Burke.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

=head1 ACKNOWLEDGEMENTS

Thanks to L<Hurricane Electric|http://he.net/> for permission to use its L<Linux man pages online|http://man.he.net/> site for man page links.

Thanks to L<search.cpan.org|http://search.cpan.org/> for permission to use the site for Perl module links.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>.
But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<d wheeler@cpan.org>

=back

=cut

Found in path(s):
* /opt/cola/permits/1185063596_1627671001.2/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-X7wlog47/Pod-Simple-3.35.tar.gz-cosi-expand-archive-1Gwvns5S/Pod-Simple-3.35/lib/Pod/Simple/HTML.pm

No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::Subclassing -- write a formatter as a Pod::Simple subclass

=head1 SYNOPSIS

package Pod::SomeFormatter;
use Pod::Simple;
@ISA = qw(Pod::Simple);
$VERSION = '1.01';
use strict;

sub _handle_element_start {
  my($parser, $element_name, $attr_hash_r) = @_; 
  ...
}

sub _handle_element_end {
  my($parser, $element_name, $attr_hash_r) = @_; 
  # NOTE: $attr_hash_r is only present when $element_name is "over" or "begin"
  # The remaining code excerpts will mostly ignore this $attr_hash_r, as it is
  # mostly useless. It is documented where "over-*" and "begin" events are
  # documented.
  ...
}

sub _handle_text {


This document is about using Pod::Simple to write a Pod processor, generally a Pod formatter. If you just want to know about using an existing Pod formatter, instead see its documentation and see also the docs in L<Pod::Simple>.

B<The zeroeth step> in writing a Pod formatter is to make sure that there isn't already a decent one in CPAN. See L<http://search.cpan.org/>, and run a search on the name of the format you want to render to. Also consider joining the Pod People list L<http://lists.perl.org/showlist.cgi?name=pod-people> and asking whether anyone has a formatter for that format -- maybe someone cobbled one together but just hasn't released it.

B<The first step> in writing a Pod processor is to read L<perlpodspec>, which contains information on writing a Pod parser (which has been largely taken care of by Pod::Simple), but also a lot of requirements and recommendations for writing a formatter.

B<The second step> is to actually learn the format you're planning to format to -- or at least as much as you need to know to represent Pod, which probably isn't much.

B<The third step> is to pick which of Pod::Simple's interfaces you want to use:

=over

=item Pod::Simple

The basic L<Pod::Simple> interface that uses C<_handle_element_start()>.
C<_handle_element_end()> and C<_handle_text>().

=item Pod::Simple::Methody

The L<Pod::Simple::Methody> interface is event-based, similar to that of L<HTML::Parser> or L/XML::Parser>'s "Handlers".

=item Pod::Simple::PullParser

L<Pod::Simple::PullParser> provides a token-stream interface, sort of like L<HTML::TokeParser>'s interface.
L<Pod::Simple::SimpleTree> provides a simple tree interface, rather like L<XML::Parser>'s "Tree" interface. Users familiar with XML handling will be comfortable with this interface. Users interested in outputting XML, should look into the modules that produce an XML representation of the Pod stream, notably L<Pod::Simple::XMLOutStream>; you can feed the output of such a class to whatever XML parsing system you are most at home with.

B<The last step> is to write your code based on how the events (or tokens, or tree-nodes, or the XML, or however you're parsing) will map to constructs in the output format. Also be sure to consider how to escape text nodes containing arbitrary text, and what to do with text nodes that represent preformatted text (from verbatim sections).

=head1 Events

TODO intro... mention that events are supplied for implicits, like for missing >'s

In the following section, we use XML to represent the event structure associated with a particular construct. That is, TODO

=end

=item C<< $parser->_handle_element_start( I<element_name>, I<attr_hashref> ) >>
=item C<< $parser->_handle_element_end( I<element_name> ) >>
=item C<< $parser->_handle_text( I<text_string> ) >>

TODO describe

=end

=item events with an element_name of Document

Parsing a document produces this event structure:
The value of the I<start_line> attribute will be the line number of the first Pod directive in the document.

If there is no Pod in the given document, then the event structure will be this:

<Document contentless="1" start_line="543">
</Document>

In that case, the value of the I<start_line> attribute will not be meaningful; under current implementations, it will probably be the line number of the last line in the file.

=item events with an element_name of Para

Parsing a plain (non-verbatim, non-directive, non-data) paragraph in a Pod document produces this event structure:

<Para start_line="543">
...all events in this paragraph...
</Para>

The value of the I<start_line> attribute will be the line number of the start of the paragraph.

For example, parsing this paragraph of Pod:

The value of the I<start_line> attribute will be the line number of the start of the paragraph.

produces this event structure:

<Para start_line="129">
The value of the
<I>
start_line
</I>
attribute will be the line number of the first Pod directive in the document.
</Para>

=item events with an element_name of B, C, F, or I.

Parsing a BE<lt>...E<gt> formatting code (or of course any of its
semantically identical syntactic variants
S<BE<lt>E<lt> ... E<gt>E<gt>>, or S<BE<lt>E<lt>E<lt> ... E<gt>E<gt>E<gt>E<gt>>, etc.)
produces this event structure:

    <B>
    ...stuff...
    </B>

Currently, there are no attributes conveyed.

Parsing C, F, or I codes produce the same structure, with only a
different element name.

If your parser object has been set to accept other formatting codes,
then they will be presented like these B/C/F/I codes -- i.e., without
any attributes.

=item events with an element_name of S

Normally, parsing an SE<lt>...E<gt> sequence produces this event
structure, just as if it were a B/C/F/I code:

    <S>
    ...stuff...
    </S>

However, Pod::Simple (and presumably all derived parsers) offers the
C<nsp_for_S> option which, if enabled, will suppress all S events, and
instead change all spaces in the content to non-breaking spaces. This is
intended for formatters that output to a format that has no code that
means the same as SE<lt>...E<gt>, but which has a code/character that
means non-breaking space.

=item events with an element_name of X

Normally, parsing anXE<lt>...E<gt> sequence produces this event
structure, just as if it were a B/C/F/I code:

    <X>
    ...stuff...
    </X>

However, Pod::Simple (and presumably all derived parsers) offers the
C<nix_X_codes> option which, if enabled, will suppress all X events
and ignore their content. For formatters/processors that don't use
X events, this is presumably quite useful.
Because the LE<lt>...E<gt> is the most complex construct in the
language, it should not surprise you that the events it generates are
the most complex in the language. Most of complexity is hidden away in
the attribute values, so for those of you writing a Pod formatter that
produces a non-hypertextual format, you can just ignore the attributes
and treat an L event structure like a formatting element that
(presumably) doesn't actually produce a change in formatting. That is,
the content of the L event structure (as opposed to its
attributes) is always what text should be displayed.

There are, at first glance, three kinds of L links: URL, man, and pod.

When a LE<lt>I<some_url>E<gt> code is parsed, it produces this event
structure:

<L content-implicit="yes" raw="that_url" to="that_url" type="url">
that_url
</L>

The C<type="url"> attribute is always specified for this type of
L code.

For example, this Pod source:

L<http://www.perl.com/CPAN/authors/>

produces this event structure:

<L content-implicit="yes" raw="http://www.perl.com/CPAN/authors/" to="http://www.perl.com/CPAN/authors/" type="url">
http://www.perl.com/CPAN/authors/
</L>

When a LE<lt>I<manpage(section)>E<gt> code is parsed (and these are
fairly rare and not terribly useful), it produces this event structure:

<L content-implicit="yes" raw="manpage(section)" to="manpage(section)" type="man">
manpage(section)
</L>

The C<type="man"> attribute is always specified for this type of
L code.

For example, this Pod source:
L<crontab(5)>

produces this event structure:

<L content-implicit="yes" raw="crontab(5)" to="crontab(5)" type="man">
crontab(5)
</L>

In the rare cases where a man page link has a section specified, that text appears in a I<section> attribute. For example, this Pod source:

L<crontab(5)/"ENVIRONMENT">

will produce this event structure:

<L content-implicit="yes" raw="crontab(5)/"ENVIRONMENT"" section="ENVIRONMENT" to="crontab(5)" type="man">
"ENVIRONMENT" in crontab(5)
</L>

In the rare case where the Pod document has code like LE<lt>I<sometext>|I<manpage(section)>E<gt>, then the I<sometext> will appear as the content of the element, the I<manpage(section)> text will appear only as the value of the I<to> attribute, and there will be no C<content-implicit="yes"> attribute (whose presence means that the Pod parser had to infer what text should appear as the link text -- as opposed to cases where that attribute is absent, which means that the Pod parser did I<not> have to infer the link text, because that L code explicitly specified some link text.)

For example, this Pod source:

L<hell itself!|crontab(5)>

will produce this event structure:

<L raw="hell itself!|crontab(5)" to="crontab(5)" type="man">
hell itself!
</L>

The last type of L structure is for links to/within Pod documents. It is the most complex because it can have a I<to> attribute, I<or> a I<section> attribute, or both. The C<type="pod"> attribute is always specified for this type of L code.

In the most common case, the simple case of a LE<lt>podpageE<gt> code produces this event structure:
For example, this Pod source:

```
L<Net::Ping>
```

produces this event structure:

```
<Net::Ping to="Net::Ping" type="pod">
```

In cases where there is link-text explicitly specified, it
is to be found in the content of the element (and not the
attributes), just as with the `LE<lt>I<sometext>|I<manpage(section)>E<gt>`
case discussed above. For example, this Pod source:

```
L<Perl Error Messages|perldiag>
```

produces this event structure:

```
<Perl Error Messages to="perldiag" type="pod">
```

In cases of links to a section in the current Pod document,
there is a `I<section>` attribute instead of a `I<to>` attribute.
For example, this Pod source:

```
L</"Member Data">
```

produces this event structure:

```
"Member Data" to="Member Data" type="pod">
```

As another example, this Pod source:

```
L<the various attributes|"Member Data">
```

produces this event structure:

```
the various attributes|"Member Data" to="Member Data" type="pod">
```
In cases of links to a section in a different Pod document, there are both a \texttt{I<section>} attribute and a \texttt{L<to>} attribute. For example, this Pod source:

\texttt{L<perlsyn/"Basic BLOCKs and Switch Statements">}

produces this event structure:

\texttt{
\begin{verbatim}
<L content-implicit="yes" raw="perlsyn/"Basic BLOCKs and Switch Statements"" section="Basic BLOCKs and Switch Statements" to="perlsyn" type="pod">
"Basic BLOCKs and Switch Statements" in perlsyn
</L>
\end{verbatim}
}

As another example, this Pod source:

\texttt{L<SWITCH statements|perlsyn/"Basic BLOCKs and Switch Statements">}

produces this event structure:

\texttt{
\begin{verbatim}
<L raw="SWITCH statements|perlsyn/"Basic BLOCKs and Switch Statements"" section="Basic BLOCKs and Switch Statements" to="perlsyn" type="pod">
SWITCH statements
</L>
\end{verbatim}
}

Incidentally, note that we do not distinguish between these syntaxes:

\texttt{L</"Member Data">
L</"Member Data">
L</Member Data>
L<Member Data> \ [deprecated syntax]

That is, they all produce the same event structure (for the most part), namely:

\texttt{
\begin{verbatim}
<L content-implicit="yes" raw="$depends_on_syntax" section="Member Data" type="pod">
&amp;#34;Member Data&amp;#34;
</L>
\end{verbatim}
}

The \texttt{I<raw>} attribute depends on what the raw content of the \texttt{L<lt>E&lt;gt>} is, so that is why the event structure is the same "for the most part".

If you have not guessed it yet, the \texttt{I<raw>} attribute contains the raw, original, unescaped content of the \texttt{L<lt>E&lt;gt>} formatting code. In addition to the examples above, take notice of the following event structure produced by the following \texttt{C<LE&lt;lt>E&lt;gt>}} formatting code.

\texttt{L<click B<here>|page/About the C&lt;-M&gt; switch>
Specifically, notice that the formatting codes are present and unescaped in I<raw>.

There is a known bug in the I<raw> attribute where any surrounding whitespace is condensed into a single ". For example, given LE<lt>....E<gt>, I<raw> will be " link".

=item events with an element_name of E or Z

While there are Pod codes EE<lt>...E<gt> and ZE<lt>E<gt>, these I<do not> produce any E or Z events -- that is, there are no such events as E or Z.

=item events with an element_name of Verbatim

When a Pod verbatim paragraph (AKA "codeblock") is parsed, it produces this event structure:

<Verbatim start_line="543" xml:space="preserve">
...text...
</Verbatim>

The value of the I<start_line> attribute will be the line number of the first line of this verbatim block. The I<xml:space> attribute is always present, and always has the value "preserve".

The text content will have tabs already expanded.

=item events with an element_name of head1 .. head4

When a ":=head1 ..." directive is parsed, it produces this event structure:

<head1>
...stuff...
</head1>

For example, a directive consisting of this:

=head1 Options to C<new> et al.

will produce this event structure:
Options to

new

et al.

"=head2" through "=head4" directives are the same, except for the element names in the event structure.

=item events with an element_name of encoding

In the default case, the events corresponding to C<=encoding> directives are not emitted. They are emitted if C<keep_encoding_directive> is true. In that case they produce event structures like L</"events with an element_name of head1 .. head4"> above.

=item events with an element_name of over-bullet

When an "=over ... Z<=back" block is parsed where the items are a bulleted list, it will produce this event structure:

<over-bullet indent="4" start_line="543">  
<item-bullet start_line="545">    ...Stuff... 
</item-bullet>  
...more item-bullets...  
</over-bullet fake-closer="1">

The attribute I.fake-closer is only present if it is a true value; it is not present if it is a false value. It is shown in the above example to illustrate where the attribute is (in the B<closing> tag). It signifies that the C<=over> did not have a matching C<=back>, and thus Pod::Simple had to create a fake closer.

For example, this Pod source:

=over

=item *

Something

=back

Would produce an event structure that does B<not> have the I.fake-closer attribute, whereas this Pod source:
Gasp! An unclosed =over block!

would. The rest of the over-* examples will not demonstrate this attribute, but they all can have it. See L<Pod::Checker>'s source for an example of this attribute being used.

The value of the I<indent> attribute is whatever value is after the "=over" directive, as in "=over 8". If no such value is specified in the directive, then the I<indent> attribute has the value "4".

For example, this Pod source:

=over
=item *

Stuff
=item *

Bar I<baz>!
=back

produces this event structure:

<over-bullet indent="4" start_line="10">
=item-bullet start_line="12">
Stuff
</item-bullet>
=item-bullet start_line="14">
Bar I<baz</I>!
</item-bullet>
</over-bullet>

=item events with an element_name of over-number

When an "=over ... Z<>=back" block is parsed where the items are a numbered list, it will produce this event structure:

<over-number indent="4" start_line="543">
=item-number number="1" start_line="545">
...Stuff...
</item-number>
</over-number>
This is like the "over-bullet" event structure; but note that the contents are "item-number" instead of "item-bullet", and note that they will have a "number" attribute, which some formatters/processors may ignore (since, for example, there's no need for it in HTML when producing an "<UL><LI>...</LI>...</UL>" structure), but which any processor may use.

Note that the values for the I<number> attributes of "item-number" elements in a given "over-number" area I<will> start at 1 and go up by one each time. If the Pod source doesn't follow that order (even though it really should!), whatever numbers it has will be ignored (with the correct values being put in the I<number> attributes), and an error message might be issued to the user.

=item events with an element_name of over-text

These events are somewhat unlike the other over-* structures, as far as what their contents are. When an "=over ... Z<=back" block is parsed where the items are a list of text "subheadings", it will produce this event structure:

<over-text indent="4" start_line="543">
<item-text>
...stuff...
</item-text>
...stuff (generally Para or Verbatim elements)...
<item-text>
...more item-text and/or stuff...
</over-text>

The I<indent> and I<fake-closer> attributes are as with the other over-* events.

For example, this Pod source:

=over

=item Foo

Stuff

=item Bar I<baz>!

Quux

=back
produces this event structure:

```xml
<over-text indent="4" start_line="20">
<item-text start_line="22">
  Foo
</item-text>
<Para start_line="24">
  Stuff
</Para>
<item-text start_line="26">
  Bar
  <I>baz</I>
  !
</item-text>
<Para start_line="28">
  Quux
</Para>
</over-text>
```

=item events with an element_name of over-block

These events are somewhat unlike the other over-* structures, as far as what their contents are. When an "=over … Z<=>back" block is parsed where there are no items, it will produce this event structure:

```xml
<over-block indent="4" start_line="543">
...stuff (generally Para or Verbatim elements)...
</over-block>
```

The I<indent> and I<fake-closer> attributes are as with the other over-* events.

For example, this Pod source:

```text
=over

For cutting off our trade with all parts of the world

For transporting us beyond seas to be tried for pretended offenses

He is at this time transporting large armies of foreign mercenaries to complete the works of death, desolation and tyranny, already begun with circumstances of cruelty and perfidy scarcely paralleled in the most
barbarous ages, and totally unworthy the head of a civilized nation.

=back

will produce this event structure:

<over-block indent="4" start_line="2">
<Para start_line="4">
    For cutting off our trade with all parts of the world
</Para>
<Para start_line="6">
    For transporting us beyond seas to be tried for pretended offenses
</Para>
<Para start_line="8">
    He is at this time transporting large armies of [...more text...]
</Para>
</over-block>

=item events with an element_name of over-empty

B<Note: These events are only triggered if C<parse_empty_lists()> is set to a true value.>

These events are somewhat unlike the other over-* structures, as far as what their contents are. When an "=over ... Z<>=back" block is parsed where there is no content, it will produce this event structure:

<over-empty indent="4" start_line="543">
</over-empty>

The I<indent> and I<fake-closer> attributes are as with the other over-* events.

For example, this Pod source:

=over

=over

=back

=back

will produce this event structure:

<over-block indent="4" start_line="1">
<over-empty indent="4" start_line="3">
</over-empty>
</over-block>
Note that the outer `<over>` is a block because it has no `<item>`s but still has content: the inner `<over>`. The inner `<over>`, in turn, is completely empty, and is treated as such.

=item events with an element_name of item-bullet

See L</events with an element_name of over-bullet">, above.

=item events with an element_name of item-number

See L</events with an element_name of over-number">, above.

=item events with an element_name of item-text

See L</events with an element_name of over-text">, above.

=item events with an element_name of for

TODO...

=item events with an element_name of Data

TODO...

=back

=head1 More Pod::Simple Methods

Pod::Simple provides a lot of methods that aren't generally interesting to the end user of an existing Pod formatter, but some of which you might find useful in writing a Pod formatter. They are listed below. The first several methods (the accept_* methods) are for declaring the capabilities of your parser, notably what `<for I<targetname>>` sections it's interested in, what extra NE<lt>...E<gt> codes it accepts beyond the ones described in the I<perlpod>.

=over

=item C<< $parser->accept_targets( I<SOMEVALUE> ) >>

As the parser sees sections like:

=for html `<img src="fig1.jpg">`

or
...the parser will ignore these sections unless your subclass has specified that it wants to see sections targeted to "html" (or whatever the formatter name is).

If you want to process all sections, even if they're not targeted for you, call this before you start parsing:

$parser->accept_targets("*");

This is like accept_targets, except that it specifies also that the content of sections for this target should be treated as Pod text even if the target name in "=for I<targetname>" doesn't start with a ";:.

At time of writing, I don't think you'll need to use this.

This tells the parser that you accept additional formatting codes, beyond just the standard ones (I B C L F S X, plus the two weird ones you don't actually see in the parse tree, Z and E). For example, to also accept codes "N", "R", and "W":

$parser->accept_codes( qw( N R W ) );

B<TODO: document how this interacts with =extend, and long element names>

In the unlikely situation that you need to tell the parser that you will accept additional directives ("=foo" things), you need to first set the parser to treat its content as data (i.e., not really processed at all), or as verbatim (mostly just expanding tabs), or as processed text (parsing formatting codes like BE<lt>...E<gt>).
For example, to accept a new directive "=method", you'd presumably use:

$parser->accept_directive_as_processed("method");

so that you could have Pod lines like:

=method I<$whatever> thing B<um>

Making up your own directives breaks compatibility with other Pod formatters, in a way that using "=for I<target> ..." lines doesn't; however, you may find this useful if you're making a Pod superset format where you don't need to worry about compatibility.

=item C<< $parser->nbsp_for_S( I<BOOLEAN> ); >>

Setting this attribute to a true value (and by default it is false) will turn "SE<lt>...E<gt>" sequences into sequences of words separated by C<xA0> (non-breaking space) characters. For example, it will take this:

I like S<Dutch apple pie>, don't you?

and treat it as if it were:

I like DutchE<nbsp>appleE<nbsp>pie, don't you?

This is handy for output formats that don't have anything quite like an "SE<lt>...E<gt>" code, but which do have a code for non-breaking space.

There is currently no method for going the other way; but I can probably provide one upon request.

=item C<< $parser->version_report() >>

This returns a string reporting the $VERSION value from your module (and its classname) as well as the $VERSION value of Pod::Simple. Note that L<perlpodspec> requires output formats (wherever possible) to note this detail in a comment in the output format. For example, for some kind of SGML output format:

print OUT "<!-- \n", $parser->version_report, "\n -->";

=item C<< $parser->pod_para_count() >>
This returns the count of Pod paragraphs seen so far.

=item C<< $parser->line_count() >>

This is the current line number being parsed. But you might find the "line_number" event attribute more accurate, when it is present.

=item C<< $parser->nix_X_codes( I<SOMEVALUE> ) >>

This attribute, when set to a true value (and it is false by default) ignores any "XE<lt>...E<gt>” sequences in the document being parsed. Many formats don't actually use the content of these codes, so have no reason to process them.

=item C<< $parser->keep_encoding_directive( I<SOMEVALUE> ) >>

This attribute, when set to a true value (it is false by default) will keep C<=encoding> and its content in the event structure. Most formats don't actually need to process the content of an C<=encoding> directive, even when this directive sets the encoding and the processor makes use of the encoding information. Indeed, it is possible to know the encoding without processing the directive content.

=item C<< $parser->merge_text( I<SOMEVALUE> ) >>

This attribute, when set to a true value (and it is false by default) makes sure that only one event (or token, or node) will be created for any single contiguous sequence of text. For example, consider this somewhat contrived example:

I just LOVE Z<>hotE<32>apple pie!

When that is parsed and events are about to be called on it, it may actually seem to be four different text events, one right after another: one event for "I just LOVE ", one for "hot", one for " ", and one for "apple pie!". But if you have merge_text on, then you're guaranteed that it will be fired as one text event: "I just LOVE hot apple pie!".

=item C<< $parser->code_handler( I<CODE_REF> ) >>

This specifies code that should be called when a code line is seen (i.e., a line outside of the Pod). Normally this is undef, meaning that no code should be called. If you provide a routine, it should start out like this:
sub get_code_line {  # or whatever you'll call it
  my($line, $line_number, $parser) = @_;
  ...
}

Note, however, that sometimes the Pod events aren't processed in exactly the same order as the code lines are -- i.e., if you have a file with Pod, then code, then more Pod, sometimes the code will be processed (via whatever you have code_handler call) before the all of the preceding Pod has been processed.

=item C<< $parser->cut_handler(  I<CODE_REF>  ) >>

This is just like the code_handler attribute, except that it's for "=cut" lines, not code lines. The same caveats apply. "=cut" lines are unlikely to be interesting, but this is included for completeness.

=item C<< $parser->pod_handler(  I<CODE_REF>  ) >>

This is just like the code_handler attribute, except that it's for "=pod" lines, not code lines. The same caveats apply. "=pod" lines are unlikely to be interesting, but this is included for completeness.

=item C<< $parser->whiteline_handler(  I<CODE_REF>  ) >>

This is just like the code_handler attribute, except that it's for lines that are seemingly blank but have whitespace (" " and/or "\t") on them, not code lines. The same caveats apply. These lines are unlikely to be interesting, but this is included for completeness.

=item C<< $parser->whine( I<linenumber>, I<complaint string> ) >>

This notes a problem in the Pod, which will be reported in the "Pod Errors" section of the document and/or sent to STDERR, depending on the values of the attributes C<no_whining>, C<no_errata_section>, and C<complain_stderr>.

=item C<< $parser->scream( I<linenumber>, I<complaint string> ) >>

This notes an error like C<whine> does, except that it is not suppressible with C<no_whining>. This should be used only for very serious errors.
This aborts parsing of the current document, by switching on the flag that indicates that EOF has been seen. In particularly drastic cases, you might want to do this. It's rather nicer than just calling \texttt{die}!

Some subclasses that indiscriminately dump event attributes (well, except for ones beginning with "\texttt{~}") can use this object attribute for refraining to dump the "start_line" attribute.

This attribute, if set to true, will suppress reports of non-fatal error messages. The default value is false, meaning that complaints are reported. How they get reported depends on the values of the attributes \texttt{no_errata_section} and \texttt{complain_stderr}.

This attribute, if set to true, will suppress generation of an errata section. The default value is false -- i.e., an errata section will be generated.

This attribute, if set to true will send complaints to STDERR. The default value is false -- i.e., complaints do not go to STDERR.

Some formatter subclasses use this as a flag for whether output should have prologue and epilogue code omitted. For example, setting this to true for an HTML formatter class should omit the "\texttt{<html><head><title>...</title><body>...}" prologue and the ":\texttt{</body></html>" epilogue.

If you want to set this to true, you should probably also set \texttt{no_whining} or at least \texttt{no_errata_section} to true.

If you set this attribute to a true value, the parser will try to preserve whitespace in the output. This means that such formatting conventions as two spaces after periods will be preserved by the parser.
This is primarily useful for output formats that treat whitespace as significant (such as text or *roff, but not HTML).

=item C<< $parser->parse_empty_lists( I<SOMEVALUE> ) >>

If this attribute is set to true, the parser will not ignore empty C<<over>>/C<<back>> blocks. The type of C<<over>> will be I<empty>, documented above, L<events with an element_name of over-empty>.

=back

=head1 SEE ALSO

L<Pod::Simple> -- event-based Pod-parsing framework
L<Pod::Simple::Methody> -- like Pod::Simple, but each sort of event calls its own method (like C<start_head3>)
L<Pod::Simple::PullParser> -- a Pod-parsing framework like Pod::Simple, but with a token-stream interface
L<Pod::Simple::SimpleTree> -- a Pod-parsing framework like Pod::Simple, but with a tree interface
L<Pod::Simple::Checker> -- a simple Pod::Simple subclass that reads documents, and then makes a plaintext report of any errors found in the document
L<Pod::Simple::DumpAsXML> -- for dumping Pod documents as tidily indented XML, showing each event on its own line
L<Pod::Simple::XMLOutStream> -- dumps a Pod document as XML (without introducing extra whitespace as Pod::Simple::DumpAsXML does).
L<Pod::Simple::DumpAsText> -- for dumping Pod documents as tidily indented text, showing each event on its own line
L<Pod::Simple::LinkSection> -- class for objects representing the values of the TODO and TODO attributes of LE<lt>...E<gt> elements
L<Pod::Escapes> -- the module that Pod::Simple uses for evaluating EE<lt>...E<gt> content
L<Pod::Simple::Text> -- a simple plaintext formatter for Pod
L<Pod::Simple::TextContent> -- like Pod::Simple::Text, but makes no effort for indent or wrap the text being formatted
L<Pod::Simple::HTML> -- a simple HTML formatter for Pod

L<perlpod|perlpod>

L<perlpodspec|perlpodspec>

L<perldoc>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

Copyright (c) 2002 Sean M. Burke.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal <allison@perl.org>

=item * Hans Dieter Pearcey <hdp@cpan.org>

=item * David E. Wheeler <dwheeler@cpan.org>

=back
=for notes

Hm, my old podchecker version (1.2) says:
*** WARNING: node 'http://search.cpan.org/' contains non-escaped | or / at line 38 in file Subclassing.pod
*** WARNING: node 'http://lists.perl.org/showlist.cgi?name=pod-people' contains non-escaped | or / at line 41 in file Subclassing.pod
Yes, L<...> is hard.

=cut

Found in path(s):
* /opt/cola/permits/1185063596_1627671001.2/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-X7wlog47/Pod-Simple-3.35.tar.gz-cosi-expand-archive-DIGwns5S/Pod-Simple-3.35/lib/Pod/Simple/Subclassing.pod
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::DumpAsText -- dump Pod-parsing events as text

=head1 SYNOPSIS

perl -MPod::Simple::DumpAsText -e \
"exit Pod::Simple::DumpAsText->filter(shift)->any_errata_seen" \
thingy.pod

=head1 DESCRIPTION

This class is for dumping, as text, the events gotten from parsing a Pod document. This class is of interest to people writing Pod formatters based on Pod::Simple. It is useful for seeing exactly what events you get out of some Pod that you feed in.

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 SEE ALSO

L<Pod::Simple::DumpAsXML>

L<Pod::Simple>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.
This module is managed in an open GitHub repository, L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

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=back

=cut

Found in path(s):
* /opt/cola/permits/1185063596_1627671001.2/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-X7wlog47/Pod-Simple-3.35.tar.gz-cosi-expand-archive-DIGwns5S/Pod-Simple-3.35/lib/Pod/Simple/DumpAsText.pm

No license file was found, but licenses were detected in source scan.

NAME
perlfaq3 - Programming Tools ($Revision: 1.38 $, $Date: 1999/05/23 16:08:30 $)

DESCRIPTION
This section of the FAQ answers questions related to programmer tools and programming support. How do I do (anything)?
Have you looked at CPAN (see perlfaq2)? The chances are that someone has already written a module that can solve your problem. Have you read the appropriate man pages? Here’s a brief index:

- Basics: perldata, perlvar, perlsyn, perlop, perls
- Execution: perlrn, perldebug
- Functions: perlfunc
- Objects: perlref, perlmod, perlobj, perlite
- Data Structures: perlref, perllo, perl
dc
- Modules: perlmod, perlmodlib, perls
- Regexes: perlre, perlfunc, perlop, perlocale
- Moving to perl5: perltrap, perl
- Linking w/C: perlxsut, perlxs, perlcall, perlguts, perlembed

(not a man-page but still useful)

A crude table of contents for the Perl man page set is found in perltoc.

How can I use Perl interactively?
The typical approach uses the Perl debugger, described in the perldildebug(1) man page, on an “empty” program, like this:

```
perl -de 42
```

Now just type in any legal Perl code, and it will be immediately evaluated. You can also examine the symbol table, get stack backtraces, check variable values, set breakpoints, and other operations typically found in symbolic debuggers.

Is there a Perl shell?
In general, no. The Shell.pm module (distributed with Perl) makes Perl try commands which aren’t part of the Perl language as shell commands. perlsh from the source distribution is simplistic and uninteresting, but may still be what you want.

How do I debug my Perl programs?
Have you tried use warnings or used -w? They enable warnings to detect dubious practices.
Have you tried use strict? It prevents you from using symbolic references, makes you predeclare any subroutines that you call as bare words, and (probably most importantly) forces you to predeclare your variables with my, our, or use vars.

Did you check the return values of each and every system call? The operating system (and thus Perl) tells you whether they worked, and if not why.

```
open(FH, "> /etc/cantwrite")
```

or die "Couldn’t write to /etc/cantwrite: $!
";

Did you read perltrap? It’s full of gotchas for old and new Perl programmers and even has sections for those of you who are upgrading from languages like awk and C.

Have you tried the Perl debugger, described in perldildebug? You can step through your program and see what it’s doing and thus work out why what it’s doing isn’t what it should be doing.

How do I profile my Perl programs?
You should get the Devel::DProf module from the standard distribution (or separately on CPAN) and also use Benchmark.pm from the standard distribution. The Benchmark module lets you time specific portions of your code, while Devel::DProf gives detailed breakdowns of where your code spends its time.

Here’s a sample use of Benchmark:

```
use Benchmark;
@junk = `cat /etc/motd```

$count = 10_000;
timethese($count, {
  'map' => sub { my @a = @junk;
map { s/a/b/ } @a;
return @a
},
'for' => sub { my @a = @junk;
local $_;
for (@a) { s/a/b/ };
return @a },
});
This is what it prints (on one machine--your results will be dependent on your hardware, operating system, and the
load on your machine):
Benchmark: timing 10000 iterations of for, map...
for: 4 secs ( 3.97 usr 0.01 sys = 3.98 cpu)
map: 6 secs ( 4.97 usr 0.00 sys = 4.97 cpu)
Be aware that a good benchmark is very hard to write. It only tests the data you give it and proves little about the
differing complexities of contrasting algorithms.
How do I cross-reference my Perl programs?
The B::Xref module, shipped with the new, alpha-release Perl compiler (not the general distribution prior to the
5.005 release), can be used to generate cross-reference reports for Perl programs.
perl -MO=Xref[,OPTIONS] scriptname.plx
Is there a pretty-printer (formatter) for Perl?
There is no program that will reformat Perl as much as indent(1) does for C. The complex feedback between the
scanner and the parser (this feedback is what confuses the vgrind and emacs programs) makes it challenging at best
to write a stand-alone Perl parser.
Of course, if you simply follow the guidelines in perlstyle, you shouldn't need to reformat. The habit of formatting
your code as you write it will help prevent bugs. Your editor can and should help you with this. The perl-mode or
newer cperl-mode for emacs can provide remarkable amounts of help with most (but not all) code, and even less
programmable editors can provide significant assistance. Tom swears by the following settings in vi and its clones:
set ai sw=4
map! ^O {^M}^[O^T
Now put that in your .exrc file (replacing the caret characters with control characters) and away you go. In insert
mode, ^T is for indenting, ^D is for undenting, and ^O is for blockdenting-- as it were. If you haven't used the last
one, you're missing a lot. A more complete example, with comments, can be found at http://www.perl.com/CPANlocal/authors/id/TOMC/scripts/toms.exrc.gz
If you are used to using the vgrind program for printing out nice code to a laser printer, you can take a stab at this
using http://www.perl.com/CPAN/doc/misc/tips/working.vgrind.entry, but the results are not particularly satisfying
for sophisticated code.
The a2ps at http://www.infres.enst.fr/%7Edemaille/a2ps/ does lots of things related to generating nicely printed
output of documents.
Is there a ctags for Perl?
There's a simple one at http://www.perl.com/CPAN/authors/id/TOMC/scripts/ptags.gz which may do the trick. And
if not, it's easy to hack into what you want.
Is there an IDE or Windows Perl Editor?
Perl programs are just plain text, so any editor will do.
If you're on Unix, you already have an IDE--Unix itself. The UNIX philosophy is the philosophy of several small
tools that each do one thing and do it well. It's like a carpenter's toolbox.
If you want a Windows IDE, check the following:
CodeMagicCD
http://www.codemagiccd.com/

Open Source Used In Intersight Kubernetes Service 1.0.15 9897


Komodo
ActiveState's cross-platform, multi-language IDE has Perl support, including a regular expression debugger and remote debugging (http://www.ActiveState.com/Products/Komodo/index.html). (Visual Perl, a Visual Studio.NET plug-in is currently (early 2001) in beta (http://www.ActiveState.com/Products/VisualPerl/index.html)).
The Object System (http://www.castlelink.co.uk/object_system/) is a Perl web applications development IDE.
PerlBuilder (http://www.solutionsoft.com/perl.htm) is an integrated development environment for Windows that supports Perl development.
Perl code magic (http://www.petes-place.com/codemagic.html).
visiPerl+ http://helpconsulting.net/visiperl/, from Help Consulting.
For editors: if you're on Unix you probably have vi or a vi clone already, and possibly an emacs too, so you may not need to download anything. In any emacs the cperl-mode (M-x cperl-mode) gives you perhaps the best available Perl editing mode in any editor.
For Windows editors: you can download an Emacs
GNU Emacs http://www.gnu.org/software/emacs/windows/ntemacs.html
MicroEMACS http://members.nbci.com/uemacs/
XEmacs http://www.xemacs.org/Download/index.html
or a vi clone such as
Vile http://vile.cx/
Vim http://www.vim.org/
win32: http://www.cs.vu.nl/%7Etmgil/vi.html
nvi (http://www.bostic.com/vi/, available from CPAN in src/misc/) is yet another vi clone, unfortunately not available for Windows, but in UNIX platforms you might be interested in trying it out, firstly because strictly speaking it is not a vi clone, it is the real vi, or the new incarnation of it, and secondly because you can embed Perl inside it to use Perl as the scripting language. nvi is not alone in this, though: at least also vim and vile offer an embedded Perl.
The following are Win32 multilanguage editor/IDESs that support Perl:
Codewright http://www.starbase.com/
SlickEdit http://www.slickedit.com/
There is also a toyedit Text widget based editor written in Perl that is distributed with the Tk module on CPAN. The ptkbd (http://world.std.com/~aep/ptkbd/) is a Perl/tk based debugger that acts as a development environment of sorts. Perl Composer (http://perlcomposer.sourceforge.net/vperl.html) is an IDE for Perl/Tk GUI creation.
In addition to an editor/IDE you might be interested in a more powerful shell environment for Win32. Your options
include

Bash
from the Cygwin package (http://sources.redhat.com/cygwin/)

Ksh
from the MKS Toolkit (http://www.mks.com/), or the Bourne shell of the U/WIN environment
(http://www.research.att.com/sw/tools/uwin/)

Tcsh

Zsh
ftp://ftp.blarg.net/users/amol/zsh/, see also http://www.zsh.org/

MKS and U/WIN are commercial (U/WIN is free for educational and research purposes), Cygwin is covered by the
GNU Public License (but that shouldn't matter for Perl use). The Cygwin, MKS, and U/WIN all contain (in addition
to the shells) a comprehensive set of standard UNIX toolkit utilities.

If you're transferring text files between Unix and Windows using FTP be sure to transfer them in ASCII mode so the
ends of lines are appropriately converted.

On Mac OS the MacPerl Application comes with a simple 32k text editor that behaves like a rudimentary IDE. In
contrast to the MacPerl Application the MPW Perl tool can make use of the MPW Shell itself as an editor (with no
32k limit).

BBEdit and BBEdit Lite
are text editors for Mac OS that have a Perl sensitivity mode (http://web.barebones.com/).

Alpha
is an editor, written and extensible in Tcl, that nonetheless has built in support for several popular markup and
programming languages including Perl and HTML (http://alpha.olm.net/).

Pepper and Pe are programming language sensitive text editors for Mac OS X and BeOS respectively
(http://www.hekkelman.com/).

Where can I get Perl macros for vi?
For a complete version of Tom Christiansen's vi configuration file, see
http://www.perl.com/CPAN/authors/Tom_Christiansen/scripts/toms.exrc.gz , the standard benchmark file for vi
emulators. The file runs best with nvi, the current version of vi out of Berkeley, which incidentally can be built with
an embedded Perl interpreter--see http://www.perl.com/CPAN/src/misc.

Where can I get perl-mode for emacs?
Since Emacs version 19 patchlevel 22 or so, there have been both a perl-mode.el and support for the Perl debugger
built in. These should come with the standard Emacs 19 distribution.

In the Perl source directory, you'll find a directory called "emacs", which contains a cperl-mode that color-codes
keywords, provides context-sensitive help, and other nifty things.

Note that the perl-mode of emacs will have fits with "main'foo" (single quote), and mess up the indentation and
highlighting. You are probably using "main::foo" in new Perl code anyway, so this shouldn't be an issue.

How can I use curses with Perl?
The Curses module from CPAN provides a dynamically loadable object module interface to a curses library. A
small demo can be found at the directory http://www.perl.com/CPAN/authors/Tom_Christiansen/scripts/rep; this
program repeats a command and updates the screen as needed, rendering rep ps axu similar to top.

How can I use X or Tk with Perl?
Tk is a completely Perl-based, object-oriented interface to the Tk toolkit that doesn't force you to use Tcl just to get
at Tk. Sx is an interface to the Athena Widget set. Both are available from CPAN. See the directory
http://www.perl.com/CPANmodules/by-category/08_User_Interfaces/

Invaluable for Perl/Tk programming are the Perl/Tk FAQ at http://w4.ins.cornell.edu/%7Epvhp/ptk/ptkTOC.html ,
the Perl/Tk Reference Guide available at http://www.perl.com/CPAN-local/authors/Stephen_O_Lidie/ , and the
online manpages at http://www-users.cs.umn.edu/%7Eamundson/perl/ perlTk/toc.html .
How can I generate simple menus without using CGI or Tk?
The http://www.perl.com/CPAN/authors/id/SKUNZ/perlmenu.v4.0.tar.gz module, which is curses-based, can help with this.

What is undump?
See the next question on "How can I make my Perl program run faster?"

How can I make my Perl program run faster?
The best way to do this is to come up with a better algorithm. This can often make a dramatic difference. Jon Bentley's book "Programming Pearls" (that's not a misspelling!) has some good tips on optimization, too. Advice on benchmarking boils down to: benchmark and profile to make sure you're optimizing the right part, look for better algorithms instead of microtuning your code, and when all else fails consider just buying faster hardware.

A different approach is to autoload seldom-used Perl code. See the AutoSplit and AutoLoader modules in the standard distribution for that. Or you could locate the bottleneck and think about writing just that part in C, the way we used to take bottlenecks in C code and write them in assembler. Similar to rewriting in C, modules that have critical sections can be written in C (for instance, the PDL module from CPAN).

In some cases, it may be worth it to use the backend compiler to produce byte code (saving compilation time) or compile into C, which will certainly save compilation time and sometimes a small amount (but not much) execution time. See the question about compiling your Perl programs for more on the compiler--the wins aren't as obvious as you'd hope.

If you're currently linking your perl executable to a shared libc.so, you can often gain a 10-25% performance benefit by rebuilding it to link with a static libc.a instead. This will make a bigger perl executable, but your Perl programs (and programmers) may thank you for it. See the INSTALL file in the source distribution for more information.

Unsubstantiated reports allege that Perl interpreters that use sfio outperform those that don't (for I/O intensive applications). To try this, see the INSTALL file in the source distribution, especially the "Selecting File I/O mechanisms" section.

The undump program was an old attempt to speed up your Perl program by storing the already-compiled form to disk. This is no longer a viable option, as it only worked on a few architectures, and wasn't a good solution anyway.

How can I make my Perl program take less memory?
When it comes to time-space tradeoffs, Perl nearly always prefers to throw memory at a problem. Scalars in Perl use more memory than strings in C, arrays take more than that, and hashes use even more. While there's still a lot to be done, recent releases have been addressing these issues. For example, as of 5.004, duplicate hash keys are shared amongst all hashes using them, so require no reallocation.

In some cases, using substr() or vec() to simulate arrays can be highly beneficial. For example, an array of a thousand booleans will take at least 20,000 bytes of space, but it can be turned into one 125-byte bit vector--a considerable memory savings. The standard Tie::SubstrHash module can also help for certain types of data structure.

If you're working with specialist data structures (matrices, for instance) modules that implement these in C may use less memory than equivalent Perl modules.

Another thing to try is learning whether your Perl was compiled with the system malloc or with Perl's builtin malloc. Whichever one it is, try using the other one and see whether this makes a difference. Information about malloc is in the INSTALL file in the source distribution. You can find out whether you are using perl's malloc by typing perl -V:usemymalloc.

Is it unsafe to return a pointer to local data?
No, Perl's garbage collection system takes care of this.

```perl
sub makeone {
    my @a = ( 1 .. 10 );
    return \@a;
}
for $i ( 1 .. 10 ) {
    push @many, makeone();
}
```
How can I free an array or hash so my program shrinks?

You can't. On most operating systems, memory allocated to a program can never be returned to the system. That's why long-running programs sometimes re-exec themselves. Some operating systems (notably, FreeBSD and Linux) allegedly reclaim large chunks of memory that is no longer used, but it doesn't appear to happen with Perl (yet). The Mac appears to be the only platform that will reliably (albeit, slowly) return memory to the OS.

We've had reports that on Linux (Redhat 5.1) on Intel, undef $scalar will return memory to the system, while on Solaris 2.6 it won't. In general, try it yourself and see.

However, judicious use of my() on your variables will help make sure that they go out of scope so that Perl can free up that space for use in other parts of your program. A global variable, of course, never goes out of scope, so you can't get its space automatically reclaimed, although undef()ing and/or delete()ing it will achieve the same effect. In general, memory allocation and de-allocation isn't something you can or should be worrying about much in Perl, but even this capability (preallocation of data types) is in the works.

How can I make my CGI script more efficient?

Beyond the normal measures described to make general Perl programs faster or smaller, a CGI program has additional issues. It may be run several times per second. Given that each time it runs it will need to be re-compiled and will often allocate a megabyte or more of system memory, this can be a killer. Compiling into C isn't going to help you because the process start-up overhead is where the bottleneck is.

There are two popular ways to avoid this overhead. One solution involves running the Apache HTTP server (available from http://www.apache.org/) with either of the mod_perl or mod_fastcgi plugin modules.

With mod_perl and the Apache::Registry module (distributed with mod_perl), httpd will run with an embedded Perl interpreter which pre-compiles your script and then executes it within the same address space without forking. The Apache extension also gives Perl access to the internal server API, so modules written in Perl can do just about anything a module written in C can. For more on mod_perl, see http://perl.apache.org/

With the FCGI module (from CPAN) and the mod_fastcgi module (available from http://www.fastcgi.com/) each of your Perl programs becomes a permanent CGI daemon process.

Both of these solutions can have far-reaching effects on your system and on the way you write your CGI programs, so investigate them with care.


A non-free, commercial product, "The Velocity Engine for Perl", (http://www.binevolve.com/ or http://www.binevolve.com/velocigen/) might also be worth looking at. It will allow you to increase the performance of your Perl programs, running programs up to 25 times faster than normal CGI Perl when running in persistent Perl mode or 4 to 5 times faster without any modification to your existing CGI programs. Fully functional evaluation copies are available from the web site.

How can I hide the source for my Perl program?

Delete it. :-) Seriously, there are a number of (mostly unsatisfactory) solutions with varying levels of "security".

First of all, however, you can't take away read permission, because the source code has to be readable in order to be compiled and interpreted. (That doesn't mean that a CGI script's source is readable by people on the web, though--only by people with access to the filesystem.) So you have to leave the permissions at the socially friendly 0755 level.

Some people regard this as a security problem. If your program does insecure things and relies on people not knowing how to exploit those insecurities, it is not secure. It is often possible for someone to determine the insecure things and exploit them without viewing the source. Security through obscurity, the name for hiding your bugs instead of fixing them, is little security indeed.

You can try using encryption via source filters (Filter::* from CPAN), but any decent programmer will be able to decrypt it. You can try using the byte code compiler and interpreter described below, but the curious might still be
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able to de-compile it. You can try using the native-code compiler described below, but crackers might be able to disassemble it. These pose varying degrees of difficulty to people wanting to get at your code, but none can definitively conceal it (true of every language, not just Perl).

If you're concerned about people profiting from your code, then the bottom line is that nothing but a restrictive license will give you legal security. License your software and pepper it with threatening statements like "This is unpublished proprietary software of XYZ Corp. Your access to it does not give you permission to use it blah blah blah." We are not lawyers, of course, so you should see a lawyer if you want to be sure your license's wording will stand up in court.

How can I compile my Perl program into byte code or C?

Malcolm Beattie has written a multifunction backend compiler, available from CPAN, that can do both these things. It is included in the perl5.005 release, but is still considered experimental. This means it's fun to play with if you're a programmer but not really for people looking for turn-key solutions.

Merely compiling into C does not in and of itself guarantee that your code will run very much faster. That's because except for lucky cases where a lot of native type inferencing is possible, the normal Perl run-time system is still present and so your program will take just as long to run and be just as big. Most programs save little more than compilation time, leaving execution no more than 10-30% faster. A few rare programs actually benefit significantly (even running several times faster), but this takes some tweaking of your code.

You'll probably be astonished to learn that the current version of the compiler generates a compiled form of your script whose executable is just as big as the original perl executable, and then some. That's because as currently written, all programs are prepared for a full eval() statement. You can tremendously reduce this cost by building a shared libperl.so library and linking against that. See the INSTALL podfile in the Perl source distribution for details.

If you link your main perl binary with this, it will make it minuscule. For example, on one author's system, /usr/bin/perl is only 11k in size!

In general, the compiler will do nothing to make a Perl program smaller, faster, more portable, or more secure. In fact, it can make your situation worse. The executable will be bigger, your VM system may take longer to load the whole thing, the binary is fragile and hard to fix, and compilation never stopped software piracy in the form of crackers, viruses, or bootleggers. The real advantage of the compiler is merely packaging, and once you see the size of what it makes (well, unless you use a shared libperl.so), you'll probably want a complete Perl install anyway.

How can I compile Perl into Java?

You can also integrate Java and Perl with the Perl Resource Kit from O'Reilly and Associates. See http://www.oreilly.com/catalog/prkunix/.

Perl 5.6 comes with Java Perl Lingo, or JPL. JPL, still in development, allows Perl code to be called from Java. See jpl/README in the Perl source tree.

How can I get #!perl to work on [MS-DOS,NT,...]?

For OS/2 just use

```bash
extproc perl -S -your_switches
```

as the first line in *.cmd file (-S due to a bug in cmd.exe's `extproc' handling). For DOS one should first invent a corresponding batch file and codify it in ALTERNATIVE_SHEBANG (see the INSTALL file in the source distribution for more information).

The Win95/NT installation, when using the ActiveState port of Perl, will modify the Registry to associate the .pl extension with the perl interpreter. If you install another port, perhaps even building your own Win95/NT Perl from the standard sources by using a Windows port of gcc (e.g., with cygwin or mingw32), then you'll have to modify the Registry yourself. In addition to associating .pl with the interpreter, NT people can use: SET PATHEXT=%PATHEXT%;.PL to let them run the program install-linux.pl merely by typing install-linux.

Macintosh Perl programs will have the appropriate Creator and Type, so that double-clicking them will invoke the Perl application.

IMPORTANT!: Whatever you do, PLEASE don't get frustrated, and just throw the perl interpreter into your cgi-bin directory, in order to get your programs working for a web server. This is an EXTREMELY big security risk. Take
the time to figure out how to do it correctly.
Can I write useful Perl programs on the command line?
Yes. Read perlrun for more information. Some examples follow. (These assume standard Unix shell quoting rules.)
# sum first and last fields
perl -lane 'print $F[0] + $F[-1]' *
# identify text files
perl -le 'for(@ARGV) {print if -f && -T _}' *
# remove (most) comments from C program
perl -0777 -pe 's{/\*.*?\*/}{}gs' foo.c
# make file a month younger than today, defeating reaper daemons
perl -e '$X=24*60*60; utime(time(),time() + 30 * $X,@ARGV)' *
# find first unused uid
perl -le '$i++ while getpwuid($i); print $i'
# display reasonable manpath
echo $PATH | perl -nl -072 -e '
s![^/+]*$!man!&&-d&&!$s{$_}++&&push@m,$_;END{print"@m"}'
OK, the last one was actually an Obfuscated Perl Contest entry. :-)
Why don't Perl one-liners work on my DOS/Mac/VMS system?
The problem is usually that the command interpreters on those systems have rather different ideas about quoting
than the Unix shells under which the one-liners were created. On some systems, you may have to change singlequotes to double ones, which you must NOT do on Unix or Plan9 systems. You might also have to change a single
% to a %%.
For example:
# Unix
perl -e 'print "Hello world\n"'
# DOS, etc.
perl -e "print \"Hello world\n\""
# Mac
print "Hello world\n"
(then Run "Myscript" or Shift-Command-R)
# VMS
perl -e "print ""Hello world\n"""
The problem is that none of these examples are reliable: they depend on the command interpreter. Under Unix, the
first two often work. Under DOS, it's entirely possible that neither works. If 4DOS was the command shell, you'd
probably have better luck like this:
perl -e "print <Ctrl-x>"Hello world\n<Ctrl-x>""
Under the Mac, it depends which environment you are using. The MacPerl shell, or MPW, is much like Unix shells
in its support for several quoting variants, except that it makes free use of the Mac's non-ASCII characters as control
characters.
Using qq(), q(), and qx(), instead of "double quotes", 'single quotes', and `backticks`, may make one-liners easier to
write.
There is no general solution to all of this. It is a mess, pure and simple. Sucks to be away from Unix, huh? :-)
[Some of this answer was contributed by Kenneth Albanowski.]
Where can I learn about CGI or Web programming in Perl?
For modules, get the CGI or LWP modules from CPAN. For textbooks, see the two especially dedicated to web stuff
in the question on books. For problems and questions related to the web, like ``Why do I get 500 Errors'' or ``Why
doesn't it run from the browser right when it runs fine on the command line'', see these sources:
WWW Security FAQ

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Where can I learn about object-oriented Perl programming?
A good place to start is perltoot, and you can use perlobj, perlboot, and perlbot for reference. Perltoot didn't come out until the 5.004 release; you can get a copy (in pod, html, or postscript) from http://www.perl.com/CPAN/doc/FMTEYEWTK/.

Where can I learn about linking C with Perl? [h2xs, xsubpp]
If you want to call C from Perl, start with perlxstut, moving on to perlxst, xsubpp, and perl guts. If you want to call Perl from C, then read perlm ailed, perlc all, and perl guts. Don't forget that you can learn a lot from looking at how the authors of existing extension modules wrote their code and solved their problems.
I've read perlm ailed, perl guts, etc., but I can't embed perl in my C program; what am I doing wrong?
Download the ExtUtils::Embed kit from CPAN and run `make test'. If the tests pass, read the pods again and again and again. If they fail, see perlbug and send a bug report with the output of make test TEST_VERBOSE=1 along with perl -V.

When I tried to run my script, I got this message. What does it mean?
A complete list of Perl's error messages and warnings with explanatory text can be found in perldiag. You can also use the splain program (distributed with Perl) to explain the error messages:

perl program 2>diag.out
splain [-v] [-p] diag.out
or change your program to explain the messages for you:

use diagnostics;
or
use diagnostics -verbose;

What's MakeMaker?
This module (part of the standard Perl distribution) is designed to write a Makefile for an extension module from a Makefile.PL. For more information, see ExtUtils::MakeMaker.

AUTHOR AND COPYRIGHT
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Irrespective of its distribution, all code examples here are in the public domain. You are permitted and encouraged to use this code and any derivatives thereof in your own programs for fun or for profit as you see fit. A simple comment in the code giving credit to the FAQ would be courteous but is not required.

Found in path(s):
sub dump { 
  ']' . esc( @{$$_[0]} ) . ']' 
}

__END__

=head1 NAME
Pod::Simple::PullParserToken -- tokens from Pod::Simple::PullParser

=head1 SYNOPSIS
Given a $parser that's an object of class Pod::Simple::PullParser (or a subclass)... 

while(my $token = $parser->get_token) { 
  $DEBUG and print STDERR "Token: ", $token->dump, "\n";  
  if($token->is_start) { 
    ...access $token->tagname, $token->attr, etc...
  } elsif($token->is_text) { 
    ...access $token->text, $token->text_r, etc...
  } elsif($token->is_end) { 
    ...access $token->tagname...
  }
}

(Also see L<Pod::Simple::PullParser>)
When you do $parser->get_token on a L<Pod::Simple::PullParser>, you should get an object of a subclass of Pod::Simple::PullParserToken. Subclasses will add methods, and will also inherit these methods:

=head1 DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser>, you should get an object of a subclass of Pod::Simple::PullParserToken. Subclasses will add methods, and will also inherit these methods:

=item $token->type

This returns the type of the token. This will be either the string "start", the string "text", or the string "end".

Once you know what the type of an object is, you then know what subclass it belongs to, and therefore what methods it supports.

Yes, you could probably do the same thing with code like
$token->isa('Pod::Simple::PullParserEndToken'), but that's not so pretty as using just $token->type, or even the following shortcuts:

=item $token->is_start

This is a shortcut for C<< $token->type() eq "start" >>

=item $token->is_text

This is a shortcut for C<< $token->type() eq "text" >>

=item $token->is_end

This is a shortcut for C<< $token->type() eq "end" >>

=item $token->dump

This returns a handy stringified value of this object. This is useful for debugging, as in:

while(my $token = $parser->get_token) {
    $DEBUG and print STDERR "Token: ", $token->dump, "\n";
    ...
}

=over

=head1 SEE ALSO

My subclasses:
L<Pod::Simple::PullParserStartToken>,
L<Pod::Simple::PullParserTextToken>, and
L<Pod::Simple::PullParserEndToken>.

L<Pod::Simple::PullParser> and L<Pod::Simple>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the
pod-people@perl.org mail list. Send an empty email to
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Patches against Pod::Simple are welcome. Please send bug reports to
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under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but
without any warranty; without even the implied warranty of
merchantability or fitness for a particular purpose.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>.
But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheeler@cpan.org>

=back

=cut
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::PullParserEndToken -- end-tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

(See L.Pod::Simple::PullParser)

=head1 DESCRIPTION

When you do $parser->get_token on a L.Pod::Simple::PullParser, you might get an object of this class.

This is a subclass of L.Pod::Simple::PullParserToken and inherits all its methods, and adds these methods:

=over

=item $token->tagname

This returns the tagname for this end-token object.
For example, parsing a "=head1 ..." line will give you a start-token with the tagname of "head1", token(s) for its content, and then an end-token with the tagname of "head1".

=item $token->tagname(I<somestring>)

This changes the tagname for this end-token object.
You probably won't need to do this.

=item $token->tag(...)  
A shortcut for $token->tagname(...)

=item $token->is_tag(I<somestring>) or $token->is_tagname(I<somestring>)

These are shortcuts for C<< $token->tag() eq I<somestring> >>

=back

You're unlikely to ever need to construct an object of this class for
yourself, but if you want to, call

```perl
Pod::Simple::PullParserEndToken->new( I<tagname> )
```

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

=head1 SUPPORT

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=over
Found in path(s):
* /opt/cola/permits/1185063596_1627671001.2/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-X7wlog47/Pod-Simple-3.35.tar.gz-cosi-expand-archive-DIgwns5S/Pod-Simple-3.35/lib/Pod/Simple/PullParserEndToken.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::PullParser -- a pull-parser interface to parsing Pod

=head1 SYNOPSIS

my $parser = SomePodProcessor->new;
$parser->set_source( "whatever.pod" );
$parser->run;

Or:

my $parser = SomePodProcessor->new;
$parser->set_source( $some_filehandle_object );
$parser->run;

Or:

my $parser = SomePodProcessor->new;
$parser->set_source( $document_source );
$parser->run;

Or:

my $parser = SomePodProcessor->new;
$parser->set_source( \@document_lines );
$parser->run;

And elsewhere:

require 5;
package SomePodProcessor;
use strict;
use base qw(Pod::Simple::PullParser);

sub run { 
  my $self = shift;
  Token:
while(my $token = $self->get_token) {
    ...process each token...
}

=head1 DESCRIPTION

This class is for using Pod::Simple to build a Pod processor -- but one that uses an interface based on a stream of token objects, instead of based on events.

This is a subclass of L<Pod::Simple> and inherits all its methods.

A subclass of Pod::Simple::PullParser should define a C<run> method that calls C<< $token = $parser->get_token >> to pull tokens.

See the source for Pod::Simple::RTF for an example of a formatter that uses Pod::Simple::PullParser.

=head1 METHODS

=over

=item my $token = $parser->get_token

This returns the next token object (which will be of a subclass of L<Pod::Simple::PullParserToken>), or undef if the parser-stream has hit the end of the document.

=item $parser->unget_token( $token )

=item $parser->unget_token( $token1, $token2, ... )

This restores the token object(s) to the front of the parser stream.

=back

The source has to be set before you can parse anything. The lowest-level way is to call C<set_source>:

=over

=item $parser->set_source( $filename )

=item $parser->set_source( $filehandle_object )

=item $parser->set_source( $document_source )
Or you can call these methods, which Pod::Simple::PullParser has defined to work just like Pod::Simple's same-named methods:

- $parser->parse_file(...)
- $parser->parse_string_document(...)
- $parser->filter(...)
- $parser->parse_from_file(...)

For those to work, the Pod-processing subclass of Pod::Simple::PullParser has to have defined a $parser->run method -- so it is advised that all Pod::Simple::PullParser subclasses do so. See the Synopsis above, or the source for Pod::Simple::RTF.

Authors of formatter subclasses might find these methods useful to call on a parser object that you haven't started pulling tokens from yet:

- my $title_string = $parser->get_title

  This tries to get the title string out of $parser, by getting some tokens, and scanning them for the title, and then ungetting them so that you can process the token-stream from the beginning.

  For example, suppose you have a document that starts out:

  =head1 NAME

  Hoo::Boy::Wowza -- Stuff B<i>wow</i> yeah!

  $parser->get_title on that document will return "Hoo::Boy::Wowza -- Stuff wow yeah!". If the document starts with:

  =head1 Name

  Hoo::Boy::W00t -- Stuff B<i>w00t</i> yeah!
Then you'll need to pass the C<nocase> option in order to recognize "Name":

$sparser->get_title(nocase => 1);

In cases where get_title can't find the title, it will return empty-string ("").

=item my $title_string = $sparser->get_short_title

This is just like get_title, except that it returns just the modulename, if the title seems to be of the form "SomeModuleName -- description".

For example, suppose you have a document that starts out:

=head1 NAME

Hoo::Boy::Wowza -- Stuff B<wow> yeah!

then $sparser->get_short_title on that document will return "Hoo::Boy::Wowza".

But if the document starts out:

=head1 NAME

Hooboy, stuff B<wow> yeah!

then $sparser->get_short_title on that document will return "Hooboy, stuff wow yeah!". If the document starts with:

=head1 Name

Hoo::Boy::W00t -- Stuff B<w00t> yeah!

Then you'll need to pass the C<nocase> option in order to recognize "Name":

$sparser->get_short_title(nocase => 1);

If the title can't be found, then get_short_title returns empty-string ("").

=item $author_name = $sparser->get_author

This works like get_title except that it returns the contents of the "=head1 AUTHOR\n\n\nParagraph\n\n" section, assuming that that section isn't terribly long. To recognize a "=head1 Author\n\n\nParagraph\n\n" section, pass the C<nocase> option:
$parser->get_author(nocase => 1);

(This method tolerates "AUTHORS" instead of "AUTHOR" too.)

=item $description_name = $parser->get_description

This works like get_title except that it returns the contents of the
"=head1 DESCRIPTION\n\nParagraph...\n" section, assuming that that section
isn't terribly long. To recognize a "=head1 Description\n\nParagraph\n" section, pass the C<nocase> option:

$parser->get_description(nocase => 1);

=item $version_block = $parser->get_version

This works like get_title except that it returns the contents of
the "=head1 VERSION\n\n[BIG BLOCK]\n" block. Note that this does NOT
return the module's C<$VERSION>!! To recognize a
"=head1 Version\n\n[BIG BLOCK]\n" section, pass the C<nocase> option:

$parser->get_version(nocase => 1);

=back

=head1 NOTE

You don't actually I<have> to define a C<run> method. If you're
writing a Pod-formatter class, you should define a C<run> just so
that users can call C<parse_file> etc, but you don't I<have> to.

And if you're not writing a formatter class, but are instead just
writing a program that does something simple with a Pod::PullParser
object (and not an object of a subclass), then there's no reason to
bother subclassing to add a C<run> method.

=head1 SEE ALSO

L<Pod::Simple>

L<Pod::Simple::PullParserToken> -- and its subclasses
L<Pod::Simple::PullParserStartToken>,
L<Pod::Simple::PullParserTextToken>, and
L<Pod::Simple::PullParserEndToken>.

L<HTML::TokeParser>, which inspired this.
Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

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=back

=cut

JUNK:

sub _old_get_title {  # some witchery in here
  my $self = $_[0];
  my $title;
  my @to_unget;
while(1) {
  push @to_unget, $self->get_token;
  unless(defined $to_unget[-1]) { # whoops, short doc!
    pop @to_unget;
    last;
  }

  DEBUG and print STDERR "-Got token ", $to_unget[-1]->dump, "\n";

  (DEBUG and print STDERR "Too much in the buffer:\n"),
  last if @to_unget > 25; # sanity

  my $pattern = ";
  if ( #to_unget[-1]->type eq 'end'
    #and $to_unget[-1]->tagname eq 'Para'
    #and
    ($pattern = join("",
      map {;
        ($_.->type eq 'start') ? ("<" . (_.->tagname . ":\")
          : ($_.->type eq 'end' ) ? ("</" . (_.->tagname . ":\")
          : ($_.->type eq 'text' ) ? ($_.->text =~ m<^([A-Z]+)$>s ? $1 : 'X')
          : "BLORP"
        } @to_unget
      ) =~ m{<head1>NAME</head1><Para>(X|</[BCIFLS]>)+</Para>$}s
    )
    {
      # Whee, it fits the pattern
      DEBUG and print STDERR "Seems to match =head1 NAME pattern.\n";
      $title = ";
      foreach my $t (reverse @to_unget) {
        last if $t->type eq 'start' and $t->tagname eq 'Para';
        $title = $t->text . $title if $t->type eq 'text';
      }
      undef $title if $title =~ m<^\s*$>; # make sure it's contentful!
      last;
    }
    elsif ($pattern =~ m{<head\d>(.+)</head\d>$}
      and !( $1 eq '1' and $2 eq 'NAME' )
    )
    {
      # Well, it fits a fallback pattern
      DEBUG and print STDERR "Seems to match NAMEless pattern.\n";
      $title = ";
      foreach my $t (reverse @to_unget) {
        last if $t->type eq 'start' and $t->tagname =~ m/^headd$/s;
        $title = $t->text . $title if $t->type eq 'text';
      }
      undef $title if $title =~ m<^\s*$>; # make sure it's contentful!
      last;
    }
  }
}
} else {
    DEBUG and $pattern and print STDERR "Leading pattern: $pattern\n";
}

# Put it all back:
$self->unget_token(@to_unget);

if(DEBUG) {
    if(defined $title) { print STDERR "  Returning title <$title>\n" }  
    else { print STDERR "Returning title <<\n" }  
}

return " unless defined $title; 
return $title; 

Found in path(s):
  * /opt/cola/permits/1185063596_1627671001.2/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-X7wIog47/Pod-Simple-3.35.tar.gz-cosi-expand-archive-DlGwns5S/Pod-Simple-3.35/lib/Pod/Simple/PullParser.pm

No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::Search - find POD documents in directory trees

=head1 SYNOPSIS

use Pod::Simple::Search;
my $name2path = Pod::Simple::Search->new->limit_glob('LWP::*')->survey;
print "Looky see what I found: ",
    join(’,’, sort keys %$name2path), "\n";

print "LWPUA docs = ",
    Pod::Simple::Search->new->find('LWP::UserAgent') || "\n";

=head1 DESCRIPTION

B<Pod::Simple::Search> is a class that you use for running searches for Pod files. An object of this class has several attributes (mostly options for controlling search options), and some methods for searching based on those attributes.

The way to use this class is to make a new object of this class, set any options, and then call one of the search options (probably C<survey> or C<find>). The sections below discuss the
syntaxes for doing all that.

=head1 CONSTRUCTOR

This class provides the one constructor, called C<new>. It takes no parameters:

use Pod::Simple::Search;
my $search = Pod::Simple::Search->new;

=head1 ACCESSORS

This class defines several methods for setting (and, occasionally, reading) the contents of an object. With two exceptions (discussed at the end of this section), these attributes are just for controlling the way searches are carried out.

Note that each of these return C<$self> when you call them as C<< $self->I<whatever(value)>> >>. That's so that you can chain together set-attribute calls like this:

my $name2path =
   Pod::Simple::Search->new
 -> inc(0) -> verbose(1) -> callback(&blab)
 -> survey(@there);

...which works exactly as if you'd done this:

my $search = Pod::Simple::Search->new;
$search->inc(0);
$search->verbose(1);
$search->callback(&blab);
my $name2path = $search->survey(@there);

=over

=item $search->inc( I<true-or-false> );

This attribute, if set to a true value, means that searches should implicitly add perl's I<@INC> paths. This automatically considers paths specified in the C<PERL5LIB> environment as this is prepended to I<@INC> by the Perl interpreter itself. This attribute's default value is B<TRUE>. If you want to search only specific directories, set $self->inc(0) before calling $inc->survey or $inc->find.
=item $search->verbose( I<nonnegative-number> );

This attribute, if set to a nonzero positive value, will make searches output (via C<warn>) notes about what they're doing as they do it.
This option may be useful for debugging a pod-related module.
This attribute's default value is zero, meaning that no C<warn> messages are produced. (Setting verbose to 1 turns on some messages, and setting it to 2 turns on even more messages, i.e., makes the following search(es) even more verbose than 1 would make them.)

=item $search->limit_glob( I<some-glob-string> );

This option means that you want to limit the results just to items whose podnames match the given glob/wildcard expression. For example, you might limit your search to just "LWP::*", to search only for modules starting with "LWP::*" (but not including the module "LWP" itself); or you might limit your search to "LW*" to see only modules whose (full) names begin with "LW"; or you might search for "*Find*" to search for all modules with "Find" somewhere in their full name. (You can also use "?" in a glob expression; so "DB?" will match "DBI" and "DBD".)

=item $search->callback( I<&some_routine> );

This attribute means that every time this search sees a matching Pod file, it should call this callback routine. The routine is called with two parameters: the current file's filespec, and its pod name. (For example: C<("/etc/perljunk/File/Crunk.pm", "File::Crunk")> would be in C<@_>.)

The callback routine's return value is not used for anything.

This attribute's default value is false, meaning that no callback is called.

=item $search->laborious( I<true-or-false> );

Unless you set this attribute to a true value, Pod::Search will apply Perl-specific heuristics to find the correct module PODs quickly.
This attribute's default value is false. You won't normally need to set this to true.

Specifically: Turning on this option will disable the heuristics for seeing only files with Perl-like extensions, omitting subdirectories that are numeric but do I<not> match the current Perl interpreter's version ID, suppressing F<site_perl> as a module hierarchy name, etc.

=item $search->recurse( I<true-or-false> );
Unless you set this attribute to a false value, Pod::Search will recurse into subdirectories of the search directories.

=item $search->shadows( $true-or-false );

Unless you set this attribute to a true value, Pod::Simple::Search will consider only the first file of a given modulename as it looks thru the specified directories; that is, with this option off, if Pod::Simple::Search has seen a C<somepathdir/Foo/Bar.pm> already in this search, then it won't bother looking at a C<somelaterpathdir/Foo/Bar.pm> later on in that search, because that file is merely a "shadow". But if you turn on C<< $self->shadows(1) >>, then these "shadow" files are inspected too, and are noted in the pathname2podname return hash.

This attribute's default value is false; and normally you won't need to turn it on.

=item $search->limit_re( $some-regexp );

Setting this attribute (to a value that's a regexp) means that you want to limit the results just to items whose podnames match the given regexp. Normally this option is not needed, and the more efficient C<limit_glob> attribute is used instead.

=item $search->dir_prefix( $some-string-value );

Setting this attribute to a string value means that the searches should begin in the specified subdirectory name (like "Pod" or "File::Find", also expressible as "File/Find"). For example, the search option C<< $search->limit_glob("File::Find::R*") >> is the same as the combination of the search options C<< $search->limit_re("^File::Find::R") -> dir_prefix("File::Find") >>.

Normally you don't need to know about the C<dir_prefix> option, but I include it in case it might prove useful for someone somewhere.

(Implementationally, searching with limit_glob ends up setting limit_re and usually dir_prefix.)

=item $search->progress( $some-progress-object );

If you set a value for this attribute, the value is expected to be an object (probably of a class that you define) that has a C<reach> method and a C<done> method. This is meant for reporting
progress during the search, if you don't want to use a simple callback.

Normally you don't need to know about the C<progress> option, but I include it in case it might prove useful for someone somewhere.

While a search is in progress, the progress object's C<reach> and C<done> methods are called like this:

# Every time a file is being scanned for pod:
$progress->reach($count, "Scanning $file");  ++$count;

# And then at the end of the search:
$progress->done("Noted $count Pod files total");

Internally, we often set this to an object of class Pod::Simple::Progress. That class is probably undocumented, but you may wish to look at its source.

=item $name2path = $self->name2path;

This attribute is not a search parameter, but is used to report the result of C<survey> method, as discussed in the next section.

=item $path2name = $self->path2name;

This attribute is not a search parameter, but is used to report the result of C<survey> method, as discussed in the next section.

=back

=head1 MAIN SEARCH METHODS

Once you've actually set any options you want (if any), you can go ahead and use the following methods to search for Pod files in particular ways.

=head2 C<< $search->survey( @directories ) >>

The method C<survey> searches for POD documents in a given set of files and/or directories. This runs the search according to the various options set by the accessors above. (For example, if the C<inc> attribute is on, as it is by default, then the perl @INC directories are implicitly added to the list of directories (if any) that you specify.)

The return value of C<survey> is two hashes:
A hash that maps from each pod-name to the filespec (like
"Stuff::Thing" => "/whatever/plib/Stuff/Thing.pm")

A hash that maps from each Pod filespec to its pod-name (like
"/whatever/plib/Stuff/Thing.pm" => "Stuff::Thing")

Besides saving these hashes as the hashref attributes
C<name2path> and C<path2name>, calling this function also returns
these hashrefs. In list context, the return value of
C<< $search->survey >> is the list C<(%name2path, %path2name)>. In
scalar context, the return value is C<%name2path>. Or you can just call this in void context.

Regardless of calling context, calling C<survey> saves
its results in its C<name2path> and C<path2name> attributes.

E.g., when searching in F<$HOME/perl5lib>, the file
F<$HOME/perl5lib/MyModule.pm> would get the POD name I<MyModule>,
whereas F<$HOME/perl5lib/Myclass/Subclass.pm> would be
I<Myclass::Subclass>. The name information can be used for POD
translators.

Only text files containing at least one valid POD command are found.

In verbose mode, a warning is printed if shadows are found (i.e., more
than one POD file with the same POD name is found, e.g. F<CPAN.pm> in
different directories). This usually indicates duplicate occurrences of
modules in the I<@INC> search path, which is occasionally inadvertent
(but is often simply a case of a user's path dir having a more recent
version than the system's general path dirs in general.)

The options to this argument is a list of either directories that are
searched recursively, or files. (Usually you wouldn't specify files,
but just dirs.) Or you can just specify an empty-list, as in
$name2path; with the C<inc> option on, as it is by default.

The POD names of files are the plain basenames with any Perl-like
extension (.pm, .pl, .pod) stripped, and path separators replaced by
C<::>’s.
Calling Pod::Simple::Search->search(...) is short for Pod::Simple::Search->new->search(...). That is, a throwaway object with default attribute values is used.

=head2 $search->simplify_name( $str )

The method simplify_name is equivalent to basename, but also strips Perl-like extensions (.pm, .pl, pod) and extensions like .bat, .cmd on Win32 and OS/2, or .com on VMS, respectively.

=head2 $search->find( $pod )

=head2 $search->find( $pod, @search_dirs )

Returns the location of a Pod file, given a Pod/module/script name (like "Foo::Bar" or "perlvar" or "perldoc"), and an idea of what files/directories to look in.

It searches according to the various options set by the accessors above.

(For example, if the C<inc> attribute is on, as it is by default, then the perl @INC directories are implicitly added to the list of directories (if any) that you specify.)

This returns the full path of the first occurrence to the file.

Package names (eg 'A::B') are automatically converted to directory names in the selected directory. Additionally, '.', 'pm', 'pl' and '.pod' are automatically appended to the search as required.

(So, for example, under Unix, "A::B" is converted to "somedir/A/B.pm", "somedir/A/B.pod", or "somedir/A/B.pl", as appropriate.)

If no such Pod file is found, this method returns undef.

If any of the given search directories contains a pod subdirectory, then it is searched. (That's how we manage to find F<perlfunc>, for example, which is usually in F<pod/perlfunc> in most Perl dists.)

The C<verbose> and C<inc> attributes influence the behavior of this search; notably, C<inc>, if true, adds @INC I<and also $Config::Config{'scriptdir'}> to the list of directories to search.

It is common to simply say C<< $filename = Pod::Simple::Search-> new ->find("perlvar") >> so that just the @INC (well, and scriptdir) directories are searched. (This happens because the C<inc> attribute is true by default.)

Calling Pod::Simple::Search->find(...) is short for
Pod::Simple::Search->new->find(...). That is, a throwaway object with default attribute values is used.

=head2 C<< $self->contains_pod( $file ) >>

Returns true if the supplied filename (not POD module) contains some Pod documentation.

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

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This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org> with code borrowed from Marek Rouchal's L<Pod::Find>, which in turn heavily borrowed code from Nick Ing-Simmons' C<PodToHtml>.

But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=over
NAME
Pod::Simple::PullParserStartToken -- start-tokens from Pod::Simple::PullParser

SYNOPSIS
(See L<Pod::Simple::PullParser>)

DESCRIPTION
When you do $parser->get_token on a L<Pod::Simple::PullParser> object, you might get an object of this class.

This is a subclass of L<Pod::Simple::PullParserToken> and inherits all its methods, and adds these methods:

$token->tagname

This returns the tagname for this start-token object.
For example, parsing a "=head1 ..." line will give you a start-token with the tagname of "head1", token(s) for its content, and then an end-token with the tagname of "head1".

$token->tagname(I<somestring>)

This changes the tagname for this start-token object.
You probably won't need to do this.

$token->tag(...)

A shortcut for $token->tagname(...)

$token->is_tag(I<somestring>) or $token->is_tagname(I<somestring>)
These are shortcuts for `C$token->tag() eq somestring`:

=item $token->attr(attrname)

This returns the value of the `attrname` attribute for this start-token object, or undef.

For example, parsing a `L<Foo/Bar>` link will produce a start-token with a "to" attribute with the value "Foo", a "type" attribute with the value "pod", and a "section" attribute with the value "Bar".

=item $token->attr(attrname, newvalue)

This sets the `attrname` attribute for this start-token object to `newvalue`. You probably won't need to do this.

=item $token->attr_hash

This returns the hashref that is the attribute set for this start-token. This is useful if (for example) you want to ask what all the attributes are -- you can just do `Ckeys %{$token->attr_hash}`:

=back

You're unlikely to ever need to construct an object of this class for yourself, but if you want to, call `CPod::Simple::PullParserStartToken->new(tagname, attrhash)`:

=head1 SEE ALSO

LPod::Simple::PullParserToken>, LPod::Simple>, LPod::Simple::Subclassing>

=head1 SUPPORT

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Pod::Simple is maintained by:

=over
=item * Allison Randal <allison@perl.org>
=item * Hans Dieter Pearcey <hdp@cpan.org>
=item * David E. Wheeler <d wheeler@cpan.org>
=back
=cut

Found in path(s):
* /opt/cola/permits/1185063596_1627671001.2/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-X7wIog47/Pod-Simple-3.35.tar.gz-cosi-expand-archive-DIGwns5S/Pod-Simple-3.35/lib/Pod/Simple/PullParserStartToken.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::Methody -- turn Pod::Simple events into method calls

=head1 SYNOPSIS

require 5;
use strict;
package SomePodFormatter;
use base qw(Pod::Simple::Methody);

sub handle_text {
    my($self, $text) = @_; 
    ...
}

sub start_head1 {
    my($self, $attrs) = @_; 
    ...
}
sub end_head1 {
    my($self) = @_; 
    ...
}

...and start_/end_ methods for whatever other events you want to catch.

=head1 DESCRIPTION

This class is of interest to people writing Pod formatters based on Pod::Simple.

This class (which is very small -- read the source) overrides Pod::Simple's _handle_element_start, _handle_text, and _handle_element_end methods so that parser events are turned into method calls. (Otherwise, this is a subclass of L<Pod::Simple> and inherits all its methods.)

You can use this class as the base class for a Pod formatter/processor.

=head1 METHOD CALLING

When Pod::Simple sees a "=head1 Hi there", for example, it basically does this:

$parser->_handle_element_start( "head1", \%attributes );
$parser->_handle_text( "Hi there" );
$parser->_handle_element_end( "head1" );

But if you subclass Pod::Simple::Methody, it will instead do this when it sees a "=head1 Hi there":

$parser->start_head1( \%attributes ) if $parser->can('start_head1');
$parser->handle_text( "Hi there" )   if $parser->can('handle_text');
$parser->end_head1()                 if $parser->can('end_head1');
If Pod::Simple sends an event where the element name has a dash, period, or colon, the corresponding method name will have a underscore in its place. For example, "foo.bar:baz" becomes start_foo_bar_baz and end_foo_bar_baz.

See the source for Pod::Simple::Text for an example of using this class.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Subclassing>

=head1 SUPPORT

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=item * Hans Dieter Pearcey C<hdp@cpan.org>

=over
NAME
Pod::Simple::HTMLBatch - convert several Pod files to several HTML files

SYNOPSIS
perl -MPod::Simple::HTMLBatch -e 'Pod::Simple::HTMLBatch::go' in out

DESCRIPTION
This module is used for running batch-conversions of a lot of HTML documents

This class is NOT a subclass of Pod::Simple::HTML (nor of bad old Pod::Html) -- although it uses Pod::Simple::HTML for doing the conversion of each document.

The normal use of this class is like so:

use Pod::Simple::HTMLBatch;
my $batchconv = Pod::Simple::HTMLBatch->new;
$batchconv->some_option( some_value );
$batchconv->some_other_option( some_other_value );
$batchconv->batch_convert( \@search_dirs, $output_dir );

FROM THE COMMAND LINE

Note that this class also provides (but does not export) the function Pod::Simple::HTMLBatch::go.
This is basically just a shortcut for C<< Pod::Simple::HTMLBatch->batch_convert(@ARGV) >>.
It's meant to be handy for calling from the command line.

However, the shortcut requires that you specify exactly two command-line arguments, C<indirs> and C<outdir>.
Example:

% mkdir out_html
% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go @INC out_html
(to convert the pod from Perl's @INC files under the directory ./out_html)

(Note that the command line there contains a literal atsign-I-N-C. This is handled as a special case by batch_convert, in order to save you having to enter the odd-looking "" as the first command-line parameter when you mean "just use whatever's in @INC".)

Example:

% mkdir ../seekrut
% chmod og-rx ../seekrut
% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go . ../seekrut
(to convert the pod under the current dir into HTML files under the directory ./seekrut)

Example:

% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go happydocs .
(to convert all pod from happydocs into the current directory)

=head1 MAIN METHODS

=over

=item $batchconv = Pod::Simple::HTMLBatch->new;

This TODO

=item $batchconv->batch_convert( I<indirs>, I<outdir> );

this TODO

=item $batchconv->batch_convert( undef , ...);

=item $batchconv->batch_convert( q[@INC], ...);

These two values for I<indirs> specify that the normal Perl @INC

=item $batchconv->batch_convert( \@dirs , ...);
This specifies that the input directories are the items in the arrayref $@dirs.

=item $batchconv->batch_convert( "somedir" , ...);

This specifies that the director "somedir" is the input.
(This can be an absolute or relative path, it doesn't matter.)

A common value you might want would be just "." for the current directory:

   $batchconv->batch_convert( "." , ...);

=item $batchconv->batch_convert( 'somedir:someother:also' , ...);

This specifies that you want the dirs "somedir", "someother", and "also" scanned, just as if you'd passed the arrayref C<qw( somedir someother also)> Note that a ":"-separator is normal under Unix, but Under MSWin, you'll need C<somedir;someother;also> instead, since the pathsep on MSWin is ";" instead of ":". (And I<that> is because ":" often comes up in paths, like C<c:/perl/lib>.)

(Exactly what separator character should be used, is gotten from C<$Config::Config{'path_sep'}>, via the L<Config> module.)

=item $batchconv->batch_convert( ... , undef );

This specifies that you want the HTML output to go into the current directory.

(Note that a missing or undefined value means a different thing in the first slot than in the second. That's so that C<batch_convert()> with no arguments (or undef arguments) means "go from @INC, into the current directory.)

=item $batchconv->batch_convert( ... , 'somedir' );

This specifies that you want the HTML output to go into the directory 'somedir'.
(This can be an absolute or relative path, it doesn't matter.)

=back

Note that you can also call C<batch_convert> as a class method,
like so:

Pod::Simple::HTMLBatch->batch_convert(...);

That is just short for this:

Pod::Simple::HTMLBatch->new->batch_convert(...);

That is, it runs a conversion with default options, for whatever inputdirs and output dir you specify.

=head2 ACCESSOR METHODS

The following are all accessor methods -- that is, they don't do anything on their own, but just alter the contents of the conversion object, which comprises the options for this particular batch conversion.

We show the "put" form of the accessors below (i.e., the syntax you use for setting the accessor to a specific value). But you can also call each method with no parameters to get its current value. For example, C<< $self->contents_file() >> returns the current value of the contents_file attribute.

=item $batchconv->verbose( I<nonnegative_integer> );

This controls how verbose to be during batch conversion, as far as notes to STDOUT (or whatever is C<select>'d) about how the conversion is going. If 0, no progress information is printed. If 1 (the default value), some progress information is printed. Higher values print more information.

=item $batchconv->index( I<true-or-false> );

This controls whether or not each HTML page is liable to have a little table of contents at the top (which we call an "index" for historical reasons). This is true by default.

=item $batchconv->contents_file( I<filename> );

If set, should be the name of a file (in the output directory) to write the HTML index to. The default value is "index.html". If you set this to a false value, no contents file will be written.
This specifies what string should be put at the beginning of the contents page. The default is a string more or less like this:

```html
<html>
<head><title>Perl Documentation</title></head>
<body class='contentspage'>
<h1>Perl Documentation</h1>
```

This specifies what string should be put at the end of the contents page. The default is a string more or less like this:

```html
<p class='contentsfooty'>Generated by Pod::Simple::HTMLBatch v3.01 under Perl v5.008 At Fri May 14 22:26:42 2004 GMT, which is Fri May 14 14:26:42 2004 local time.</p>
```

If true (the default value), we autogenerate some CSS files in the output directory, and set our HTML files to use those.

TODO: continue

If true (the default value), we autogenerate a JavaScript in the output directory, and set our HTML files to use it. Currently, the JavaScript is used only to get the browser to remember what stylesheet it prefers.

TODO: continue

```
TODO

=item $batchconv->html_render_class( I<classname> );

This sets what class is used for rendering the files.
The default is "Pod::Simple::HTML". If you set it to something else,
it should probably be a subclass of Pod::Simple::HTML, and you should
C<require> or C<use> that class so that's it's loaded before
Pod::Simple::HTMLBatch tries loading it.

=item $batchconv->search_class( I<classname> );

This sets what class is used for searching for the files.
The default is "Pod::Simple::Search". If you set it to something else,
it should probably be a subclass of Pod::Simple::Search, and you should
C<require> or C<use> that class so that's it's loaded before
Pod::Simple::HTMLBatch tries loading it.

=back

=head1 NOTES ON CUSTOMIZATION

TODO

call add_css($someurl) to add stylesheet as alternate
call add_css($someurl,1) to add as primary stylesheet

call add_javascript

subclass Pod::Simple::HTML and set $batchconv->html_render_class to
that classname
and maybe override
 $page->batch_mode_page_object_init($self, $module, $infile, $outfile, $depth)
or maybe override
 $batchconv->batch_mode_page_object_init($page, $module, $infile, $outfile, $depth)
subclass Pod::Simple::Search and set $batchconv->search_class to
that classname

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::HTMLBatch>, L<perlpod>, L<perlpodspec>

=head1 SUPPORT
Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

Copyright (c) 2002 Sean M. Burke.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheeler@cpan.org>

=back

=cut

Found in path(s):
* /opt/cola/permits/1185063596_1627671001.2/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-X7wIog47/Pod-Simple-3.35.tar.gz-cosi-expand-archive-DIGwns5S/Pod-Simple-3.35/lib/Pod/Simple/HTMLBatch.pm

No license file was found, but licenses were detected in source scan.

# ChangeLog for Pod::Simple dist
* Release 3.35
2016-11-29 Karl Williamson <khw@cpan.org>
Needed to 'make manifest' before uploading to CPAN. No changes beyond version bump

* Release 3.35
2016-11-29 Karl Williamson <khw@cpan.org>
Stabilize t/search50.t. Thanks to rurban for the patch!
Turn off utf8 warnings when trying to see if a file is UTF-8 or not.

* Release 3.33
No changes since 3.32.

2015-11-02 Marc Green <marcgreen@cpan.org>
* Release 3.32
Fixed failing tests on Windows. Thanks to A. Sinan Unur for the patch!
Switched debugging output from STDOUT to STDERR. Should rarely be used, but modules that do depend on debugging output might need to change how they handle it. Patch from Karl Williamson (GitHub Pull Request #76).

Added errata_seen() to make POD errors easily accessible. Thanks to Sean Zellmer for the pull request!

2015-08-23 Marc Green <marcgreen@cpan.org>
* Release 3.31
No changes since 3.30_1.

2015-07-19 Marc Green <marcgreen@cpan.org>
* Release 3.30_1
Simplified the detection of case-insensitivity in Pod::Simple::Search.
Fixed "Use of uninitialized value $1 in lc" warning in Pod::Simple::Search.

If @INC includes the current directory symbol, '.', the survey() method of Pod::Simple::Search no longer excludes it from its list of directories to search. Instead, The survey() and find() methods now both exclude duplicate directories from @INC (RT #102344).

Moved source repository and updated links to new perl-pod GitHub organization: https://github.com/perl-pod/pod-simple.
Improved repository links and added GitHub issue tracking link to the distribution metadata.
Switched from File::Spec's catdir to catfile for path names, to fix failures on VMS. Also now use Unix path semantics where they're not required to be platform-specific. Thanks to Craig A. Berry for the patch (RT #105511).

Improved the example use of the 'html_encode_chars()' method in the Pod::Simple::XHTML documentation. Patch from Randy Stauner.

2015-02-23   David E. Wheeler <david@justatheory.org>
* Release 3.30
No changes since 3.29_6.

2015-02-19   David E. Wheeler <david@justatheory.org>
* Release 3.29_6
The survey() method in Pod::Simple::Search now ignores duplicate files with varying lettercasing on case-insensitive file systems.
This allows

When pondering files in a given directory, the survey() method in Pod::Simple::Search now prefers files with extensions in the following order: no extension, .pod, .pm, .plx, .pl.

The find() method in Pod::Simple::Search now records the './pod' subdirectory of each directory it considers in such a way as to preserve its case on the file system.

The find() method in Pod::Simple::Search now tries harder to find the proper file on case-insensitive file systems when searching for modules starting with "Pod". For example, when searching for 'Pod::Perldoc' it now returns a file ending in 'Pod/Perldoc.pm' instead of 'Pod/perldoc.pod', as the latter is actually the documentation for the 'perldoc' program.

2015-02-17   David E. Wheeler <david@justatheory.org>
* Release 3.29_5
No changes except that the release tarball should no longer be empty.

2015-02-16   David E. Wheeler <david@justatheory.org>
* Release 3.29_4
Removed "Caveats" from the docs. Pod::Simple has been out of beta for years.

The survey() method in Pod::Simple::Search no longer assumes that files ending in '.pod' are actually Pod. Like .pm and .pl files, .pod files must contain at least one valid POD command, as documented. This brings the behavior in line with find(), which already required that .pod files contain Pod.
The survey() method in Pod::Simple::Search now prefers files ending in .pod over those ending in .pm, and .pm over those ending in .pl, when it finds duplicate pod files for a given name.

2015-02-11   David E. Wheeler <david@justatheory.org>
* Release 3.29_3
Tightened up the first pass at recognizing a Pod command so that fewer invalid Pod lines will be recognized. Suggested by Randy Stauner.

Fixed bug where Pod::Simple would attempt to call utf8::unicode_to_native on Perl 5.6, where that function does not exist.

Typos and minor wordsmithing changes in Pod::Simple::Subclassing, thanks to Randy Stauner.

The Pod::Simple::Search survey() and find() methods now use the same code for determining @INC directories to search. The only difference is that find() also includes $Config::Config{'scriptdir'}.

2015-01-13   David E. Wheeler <david@justatheory.org>
* Release 3.29
NOTE: This will be the last release of Pod::Simple to support versions of Perl earlier than 5.6.

Fixed test failure for unsupported encoding on Perl 5.6.

Removed unnecessary dependency on constant. Reported by Petr Pisar (RT #85578).

Many documentation and comment typos fixed by David Steinbrunner.

Fixed issue when an encoding is declared via an '=encoding' directive *after* Pod::Simple has already detected an encoding. Thanks to Graham Knop for the patch and Patrice Dumas for the tests.

Added '>&STDERR' as an output to better emulate Pod::Parser::parse_from_file(). Florent Angly.

Tidied the description of the different Pod::Simple interfaces, with greater emphasis on the four different steps to subclassing. Florent Angly.

Added the 'top_anchor' attribute to Pod::Simple::HTML, to allow specification of a custom top anchor format. Gabor Szabo.
Fixed the text formatter to properly set the Text::Wrap overflow policy. Thanks to Nigel Metheringham for the fix!

Fixed mis-matched quotation marks when adding JavaScript elements to the XHTML output. Patch from jonathancast.

Fixed issues on EBCDIC. Patch from Karl Williamson (GitHub Pull Request #58).

Fixed bug where the value passed to Pod::Simple::XHTML’s html_css() method would be output twice. Thanks to Andrew Johnson for the report (RT #99303).

Documented the ‘recurse’ attribute of Pod::Simple::Search. Thanks to Jim Keenan for the report (RT #91886).

An error is no longer thrown when ‘=encoding’ directives are found on subsequent lines. Instead, we now log an error message, "Cannot have multiple =encoding directives" (RT #91757).

The HTML and XHTML formatters now do a better job of preserving lines in ‘begin html’ blocks. Fixes a bug that dates from 2002 (Perl RT#9385, CPAN RT #91851).

2013-05-04 David E. Wheeler <david@justatheory.org>
* Release 3.28

Removed use of ‘done_testing’ in t/white.t, which was added in v3.27. Thanks to Paul Howarth for the catch.

Fixed improperly calculated number of skipped tests in t/xhtml01.t when HTML::Entities is not installed.

2013-05-03 David E. Wheeler <david@justatheory.org>
* Release 3.27

Added new warnings as defined by Pod::Checker, thanks to RJBS:
+ "=over" without "=back"
+ "L<>" starts or ends with whitespace
+ raw "\" or "\" in "L<text|link>\" text

Added ->keep_encoding_directive, which is false by default, to prevent formatters from emitting a document’s ‘=encoding’ directive in most cases. That they emitted the encoding was a bug introduced in v3.26 (RT #84093). Now, only the DumpAsText and DumpAsXML formats set it to true. Patch from Patrice Dumas.

2013-02-27 David E. Wheeler <david@justatheory.org>
* Release 3.26

Fixed another test script to skip all tests when Encode is not installed.

Added `encoding()` and `detected_encoding()` to return the current encoding and the encoding actually to decode the input file. The value from `"encoding"` is also now kept in the output tree. Patch from Patrice Dumas (RT #74390).

2013-02-16 David E. Wheeler <david@justatheory.org>

* Release 3.25

Improved the warning when `"=item"` types mismatch within one `"=over"="/="back"` block.

2013-02-14 David E. Wheeler <david@justatheory.org>

* Release 3.24

Fixed corner case bug for unlikely scenario in which non-UTF-8 text could be parsed as UTF-8. Grant McLean.

XHTML IDs can no longer end with punctuation. Thanks to Smylers for the patch.

Fixed test failure on Perl 5.6.2.

Changed the default installation location from "perl" to "site" on 5.12 and higher, since as of that version of Perl, dual-life modules no longer need to be installed in "perl" to replace in-core versions. Patch from tzccinct.

Fixed hash order dependency test failures on Perl 5.17. Thanks to Yves Orton for the patch.

Inlined the code that tries to guess a Pod file's encoding. This reduces the time Pod::Simple takes to build the core Perl documentation by 15-20%. Thanks to Dagfinn Ilmari Mannsker for the patch!

Added a warning when `"=item"` types mismatch within one `"=over"="/="back"` block. Marc Green/Google Summer of Code, with assist from RJBS.

Fixed regression introduced in 3.22 in which "C< >" tags were incorrectly treated as verbatim text in table of contents items emitted by Pod::Simple::XHTML. Thanks to Randy Stauner for the report and to Thomas Sibley for the fix!
Loosened up the matching of "L< >" tags for man pages so that they allow names with dots, underscores, and any other characters other than "/", just so long as they end in '[(;[-a-zA-Z0-9]+])]'. Thanks to Dave Rolsky and Kevin Ryde for the reports (RT #82975 & RT #82972).

Fixed inverted mapping of "keyboard" to "kbd" in Pod::Simple::HTML. Thanks to Robert Boisvert for the bug report (RT #79201).

Added two new Tagmap entries to Pod::Simple::HTML: "preformat" maps to "pre", and "teletype" maps to "tt". Suggested by Robert Boisvert (RT #79201).

"X< >" tags are now ignored by the pull parser when it searches for titles, as is any trailing whitespace. Thanks to Patrice Dumas for the report (RT #74389).

2012-08-14 David E. Wheeler <david@justatheory.org>
* Release 3.23

Eliminated nested elements in table of contents (index) items output of Pod::Simple::XHTML. This was especially problematic for headers that included links, as the TOC then got nested anchor elements, which simply would not work. Thanks to Ben Bullock for the report and test case (RT #77686).

Fixed semantically invalid nested XHTML generated by Pod::Simple::XHTML since v3.21. Gisle Aas.

Improved support for nested "C< >" tags in Pod::Simple::XHTML. Gisle Aas.

No longer tries to decode a string with the "utf8" flag set, as the double-decoding only triggered an error. Grant McLean.

Added documentation note that the API expects encoded text (octets). Grant McLean.

Added "parse_characters()" option to specify that strings to are already decoded from octets into characters. Grant McLean.

2012-05-27 David E. Wheeler <david@justatheory.org>
* Release 3.22

Fix but where Pod::Simple would whine about non-ASCII bytes in code or comments. Now only does so for Pod (in the absence of an

2012-05-23  David E. Wheeler <david@justatheory.org>
* Release 3.21

NOTE: COMPATABILITY CHANGE: The 'codes_in_verbatim' option in Pod::Simple::XHTML is no longer enabled by default. This brings it agreement with the other formatting classes, and eliminates unexpected behavior in XHTML-formatted Pod. Users who depended on this functionality can still get it by enabling 'codes_in_verbatim' in their code.

Fixed some typos in the documentation. Thanks to Jonathan Yu via the Debian packagers via Florian Ragwitz (RT #75532).

Now emit a warning the first time a non-ASCII byte is encountered when no "=encoding" has been seen. Grant McLean.

When a non-ASCII byte is encountered before an "=encoding" line has been seen, a heuristic (as described in perlpodspec) is applied to select UTF-8 encoding if the non-ASCII bytes form a valid UTF-8 byte sequence, or Latin-1 otherwise. Grant McLean.

Added 'handle_code' method to Pod::Simple::XHTML. This allows subclasses to override the handling of verbatim blocks, and makes for a more cohesive interface, to boot. Gisle Aas.

Subsequent text segments are now joined together and passed as a single unit to text handling code. This makes it easier for custom handlers to process complete blocks of text in a single call to 'handle_text', rather than in dribs and drabs. Gisle Aas.

Replaced naive text wrapping code in Pod::Simple::DumpAsXML with Text::Wrap, which was already used for similar purposes elsewhere in Pod::Simple. Gisle Aas.

2012-03-01  David E. Wheeler <david@justatheory.org>
* Release 3.20

Removed use of 'done_testing' in t/xhtml15.t, which was added in v3.19. Thanks to Paul Howarth for the catch.

Fixed quoting of links in a regular expression Pod::Simple::Text. Reported by Father Chrysostomos.

Fix test failure on case-insensitive, non-case-preserving file systems (VMS I'm looking at *you*). Patch from Craig A. Berry.
Pod::Simple::HTML no longer emits "href='#___top'" if a TOC (index) is not output. Patch from Rick Myers.

Fixed links in the TOC of XHTML output to use IDs derived from encoded text, rather than raw Pod, so that it will link to the ID actually generated for the section. Thanks to Randy Stauner for the report (with test case!) (RT #72544).

PullParser now throws an exception on an attempt to set a source more than once. Necessary because data from the previous source will be cached, so the new source would be ignored anyway. Create a new PullParser, instead. Thanks to Paul Boldra for the report (RT #74265).

2011-08-23  David E. Wheeler <david@justatheory.org>
* Release 3.19

Fixed occasional test failure when tests are run in parallel (HARNESS_OPTIONS=j6:c). Thanks to Alexei Znamensky for the report and Marc Green for the fix.

Added "pod_handler" option. This is a callback that can be used to inspect the content on a "=pod" line. Marc Green/Google Summer of Code.

Added tests for proper line-ending parsing from the previous release. The tests were in the repository, but didn't make it into the MANIFEST or, therefore, the release. Reported by Marc Green.

Added the "parse_empty_lists" option. When enabled, Pod::Simple will recognize empty lists (that is, a blocks with '=over' and '=back' but nothing in between). Disabled by default. Marc Green/Google Summer of Code.

Added the "whiteline_handler" attribute. It's much like "code_handler", "cut_handler", and "pod_handler", except it's triggered on lines that contain only whitespace characters. Marc Green/Google Summer of Code.

Added "raw" attribute to L<> treelet that contains the L<>'s raw contents. Marc Green/Google Summer of Code.

Pod directives autoclosed by Pod::Simple are now denoted as such by the new "fake_closer" attribute. Marc Green/Google Summer of Code.

Fixed incompatibility with Pod::Simple::HTMLBatch in Pod::Simple::XHTML. Patch by Eric Johnson.
Pod::Simple now properly parses Pod files using Mac OS Classic line-endings (\r). Marc Green/Google Summer of Code.

Fixed test failure in ’t/search50.t when the test finds a .pod but the module is in a .pm. Thanks to the cpan-testers who reported this when the test searched for Capture::Tiny.

Documented tertiary methods. Patch from Shawn H Corey.

Added "backlink" option to Pod::Simple::XHTML. Thanks to Marc Green/Google Summer of Code for the pull request.

Typos fixed in Pod::Simple::HTMLBatch. Reported by Shawn H Corey.

Fixed quoting of value returned by a "strip_verbatim_indent()" code reference so that regex meta characters are properly escaped.

Added "anchor_items" option to Pod::Simple::XHTML. This allows text items (which are output as <dt> elements) to have IDs that can be referenced in the "#" part of a URL. Marc Green/Google Summer of Code.

Added "recurse" option to Pod::Simple::Search. It's enabled by default; disable it to turn off recursion into subdirectories. Marc Green/Google Summer of Code.

Added documentation to clarify the behavior of the "content_seen" method. Thanks to Olaf Alders for the pull request.

Fixed invalid HTML generated for nested lists by Pod::Simple::XHTML (Fitz Elliott).

Replaced the invalid "<nobr>" tag -- created for "S<>" -- with ' <span style="white-space: nowrap;">' (Fitz Elliott).

Fixed some nerbles in our own Pod (Michael Stevens)

Improved the "Minimal code" example in Pod::Simple::HTML. The key...
is to use pase_file(), not parse_from_file() (which should otherwise be undocumented, and is just there for Pod::Parser compatibility. Thanks to prodding from var Arnfrj Bjarmason (RT #65428).

Added the html_charset() and html_encode_chars() attributes to Pod::Simple::XHTML. Inspired by a bug report from Agent Zhang () (RT #29587).

Added "Minimal code" example to the Pod::Simple::XHTML documentation.

Fixed mispelling of the "=encoding" markup in the parser (it was spelled "=encode"). Thanks to "TTY" for the patch. (RT #24820).

2010-11-11 David E. Wheeler <david@justatheory.org>
* Release 3.15

Removed "perlpod.pod" and "perlpodspec.pod". These now just live in the Perl core.

Fixed stylesheet names output by HTMLBatch to match the names of the actual stylesheet files (broken in 3.09). Thanks to Kevin Ryde for the report (RT #56725).

Added missing closing slash to the CSS links in the XHTML output. Thanks to HarleyPig for the patch!

Added parens around bar "qw(...)" in t/xhtml05.t. Thanks to Jerry D. Hedden for the patch.

Improved the Pod::Simple::HTML docs. Thanks to Gabor Szabo for the patch.

Pod::Simple::XHTML now properly encodes entities in URLs in the anchor tag. Thanks to John McNamara for the report (RT-60249).

Pod::Simple::HTML and XHTML now strip whitespace from the end of section names that appear as anchor names for headers (in HTML) and IDs (in XHTML). Such whitespace appeared when "X<>" entities were stripped out but not the space between them (RT-56572).

Make test "t/search50.t" always pass on case-insensitive file systems rather than just skip VMS.

2009-04-27
* Release 3.14

Removed explicit loading of UNIVERSAL. RJBS.
Reversed the change applied in release 3.09 to fix RT #12239. POD tag found inside a complex POD tag (e.g., "C<<< I<foo> >>>") is again parsed as a tag embedded in a tag instead of text and entities. The previous interpretation of `perldoc perlpod` was mistaken. (RT #55602 from Christopher J. Madsen).

2009-12-17  David E. Wheeler <david@justatheory.org>
* Release 3.13

Removed deleted test file from MANIFEST.

2009-12-17  David E. Wheeler <david@justatheory.org>
* Release 3.12

Removed "All rights reserved" from all files.

Added acknowledgements to man.he.net and search.cpan.org for permission to link man pages and Perl module links to their sites in the output of Pod::Simple::HTML and Pod::Simple::XHTML.

Add "html_h_level" option to Pod::Simple::XHTML and ::HTML to allow a =head1 to become an <h2> and so on. RJBS.

Add batch_mode_page_object_init() method to Pod::Simple::XHTML. This allows it to be used by Pod::Simple::HTMLBatch.

Fixed a regression in Pod::Simple::XHTML where '=begin html' blocks were incorrectly escaped rather than simply passed through unmolested. RJBS.

Removed the undocumented "fullstop_space_harden" attribute, which apparently was only used by Pod::Text a very long time ago.

2009-12-09  David E. Wheeler <david@justatheory.org>
* Release 3.11

Restored code to HTMLBatch that allows the TOC (index) to be created in batch jobs (RT #52324 from Martin J. Evans).

Added resources to META.yml, including bug tracker, license, and repository.

Turned man page links into links to man.he.net in Pod::Simple::HTML and Pod::Simple::XHTML output. Subclass and override resolve_man_page_link() to use a different URL.

Added the resolve_pod_page_link() and resolve_man_page_link() methods.
to Pod::Simple::XHTML to make it easier for subclasses to change the URLs created for POD and man page links.

Fixed the output of entities in L<> tags by Pod::Simple::XHTML.

Fixed the output of POD links from Pod::Simple::XHTML so that the section part (/foo) is turned into a proper fragment identifier (#foo) in the resulting search.cpan.org link.

Pod::Simple::Text now outputs URLs for links created in the L<text|URL> format. For example, L<Perl|http://perl.org> is now output as "Perl <http://perl.org>" rather than just as "Perl".

Updated perlpod.pod and perlpodspec.pod to sync up with Perl core (and to be released in Perl 5.12). Changes include:
* Removing the prohibition against L<text|href>
* Deprecation of L<section> and L"section"
* Legalization of "=begin formatname parameter"

A couple of bug fixes in Pod::Simple::HTML from Graham Barr.

Added the do_section() method to Pod::Simple::HTML. Graham Barr.

Word-smithed the "DESCRIPTION" a bit and wrote the README.

Synced up all module version numbers to 3.11 except for Pod::Simple::HTMLLegacy, which is at 5.01 and should not have its version number lowered.

2009-11-12   David E. Wheeler <david@justatheory.org>
* Release 3.10

Converted test files that had DOS endings to have Unix endings (RT #50922 from Steve Hay).

Skip tests on VMS where the lack of filename case preservation can wreak havoc (RT #51184 from Craig A. Berry).

Fix nested definition list format in the XHTML output (RT #51187 from Lars D).

Added some files missing from the MANIFEST (and therefore the distribution) in the last two releases.

2009-10-27   Allison Randal <allison@perl.org>
* Release 3.09

Add support for an index (TOC) in the XHTML output from David E.
Add strip_verbatim_indent() from David E. Wheeler.

Added the "nocase" option to PullParser's get_title(), get_version(), get_description(), and get_author() methods. This allows one to fetch the contents of those sections regardless of the case of the labels (e.g., "NAME" and "Name" and "name" are all valid). Graham Barr.

Added the search_class() accessor to Pod::Simple::HTMLBatch. David E. Wheeler.

XHTML output now properly encodes entities in all places, not just in verbatim blocks and code spans. David E. Wheeler.

Fixed XHTML to output definition lists when it should, rather than (broken) unordered lists. David E. Wheeler.

Fixed XHTML so that multiparagraph list items work correctly. David E. Wheeler.

Fixed XHTML ordered list output so that it does not include the number specified in the POD in the output. This is on a par with out the HTML output works. David E. Wheeler.

Applied URL patch from Leon Brocard for The Perl Journal archives.

Fixed test failures with older versions of HTML::Entities (RT #43903 from Salvador Tercia).

Changed CSS files generated by HTMLBatch to be no more than 8.3 characters long. (RT #40450 from Renee Baecker)

Added entity handling for E<sol> and E<verbar> to Pod::Simple::XHTML. (RT #49615 from Chas Owens.)

Fixed a bug in Pod::Simple::HTML where a definition term item with no corresponding definition item would be output with no closing </a></dt>. (RT # 37107 from Kevin Ryde).

Added entity handling for numeric entities to Pod::Simple::XHTML, following perlpod specification.

A POD tag found inside a complex POD tag (e.g., "C<<< C<foo> >>>") is now properly parsed as text and entities instead of a tag embedded in a tag. This is in compliance with 'perldoc perlpod' (RT #12239 from Michael Schwern).
Thanks to David E. Wheeler for applying patches, resolving bugs, and generally getting ready for the release.

2009-07-16 Allison Randal <allison@perl.org>
* Release 3.08

Fix installdirs for Perl versions where Pod::Simple was core; RT#36446 & RT#39709, thanks to Jerry Hedden.

Fix encoding handling for code in paragraphs; RT#45829, thanks to David Wheeler.

2008-06-04 Allison Randal <allison@perl.org>
* Release 3.07

Fix module dependencies, make HTML::Entities optional and require Test::More.

2008-06-03 Allison Randal <allison@perl.org>
* Release 3.06

Fix bugs related to passing $1 to File::Spec, reported by Andrew Hamlin and John McNamara.

Applied a suggested fix from Kevin Ryde to return a successful exit code when Pod::Simple::HTML is run from the command line.

Fix handling of complex L<URL> entries, thanks to tests supplied in RT#4896.

Fix incorrect handling of S<> entries made up of entirely whitespace, thanks to test case from Andreas Koenig.

Launch Pod::Simple::XHTML, an XHTML compliant, more easily extensible HTML formatter.

Add feature to parse additional text after =begin target as a block title, requested by Adam Kennedy.

Thanks to Hans Dieter Pearcey for applying patches, resolving bugs, and generally getting ready for the release.

2007-03-03 Allison Randal <allison@perl.org>
* Release 3.05

Standardized all test files on 8.3 naming scheme for Perl core.

Applied test patches from Jerry Hedden for Perl core when
Encode not installed.

Applied test patch from Ken Williams for 5.005_04 compatibility.

Applied a patch from Christopher Madsen to fix architecture directory searches on Gentoo.

Fixed a failing search test on Debian-based distributions caused by Debian stripping Pod documentation out of core modules. (Three cheers to the CPAN testers and James Ponza for sending enough reports that I could work out the pattern.)

2006-01-18 Allison Randal <allison@perl.org>
* Release 3.04

Applied test patches for Perl core integration from Steve Peters.

Added a 'reinit' method to Pod::Simple::BlackBox for Russ Allbery so Pod::Man can provide backward compatibility to existing users (such as Module::Build and ExtUtils::MakeMaker).

Applied patch for extracting case-preserved package names on VMS from Craig Berry.

2005-11-21 Allison Randal <allison@perl.org>
* Release 3.03

Applied whitespace patches for Pod::Man and Pod::Text from Russ Allbery.

Applied validation patches to Pod::Simple::HTML from Graham Barr.

2004-05-24 Sean M. Burke <sburke@cpan.org>
* Release 3.02

Just fixing some typos in the CSS generated by Pod::Simple::HTMLBatch.

2004-05-24 Sean M. Burke <sburke@cpan.org>
* Release 3.01

No big changes to the main modules, but there's many changes to the important Pod::Simple::HTML module.

Also, new modules:
Pod::Simple::HTMLBatch
Pod::Simple::HTMLLegacy
Pod::Simple::Progress
Pod::Simple::Search
and tests for these (well, most).

Some prettying up of the Makefile.PL.

The test 00about.t is a bit more careful and verbose now.

The docs are still incomplete, esp. for Pod::Simple::HTML and Pod::Simple::HTMLBatch, which I hope to improve quite soon.

2004-05-07 Sean M. Burke <sburke@cpan.org>
* Release 2.06

Allison Randal brilliantly refactors a huge monolithic sub in Blackbox.pm. Code is now actually sanely readable!

I add the new option-attributes fullstop_space_harden and codes_in_verbatim, and the two methods abandon_output_string and abandon_output_fh. Not yet documented.

New test fullstop_spaces.t and new corpus document greek_iso_8859_7.pod.

Another version should be forthcoming in a few days that has the new Pod::Simple::HTML stuff in it.

Note to self: document =extend and =encoding in perlpodspec ASAP!

2003-11-04 Sean M. Burke <sburke@cpan.org>
* Release 2.05 -- bugfix version

In an attempt to stop Perl 5.6 versions from going completely crazy, I've tried to basically turn off all Unicode/utf8 support under 5.6. Under 5.8 and above, Unicode should work fine, and under 5.6, all Unicode characters should be replaced with a little "can't render" symbol, either a "" or a "".

Many many thanks to Jarkko Hietaniemi for helping out.

(Works under 5.005 now too?)

2003-10-10 Sean M. Burke <sburke@cpan.org>
* Release 2.04 -- minor bugfix version

* Added some code to insulate Pod::Simple to runtime changes in the value of $/. Thanks to Iain Truskett for catching this.
* Added FILENO method to TiedOutFH.pm, to work quietly under some
perls. Thanks to Jochen Stenzel for catching this.

* Fixed some tests that erroneously failed under some 5.6's
  because of chdir(s) in *.t files messing up @INC. Thanks to many
  who caught this, including Rocco Caputo.

2003-09-07  Sean M. Burke <sburke@cpan.org>
* Release 2.03 -- minor upgrade
* A =head[1234] command now closes any currently open =over, and
  warns.
* Fixing a few obscure bugs, including one to do with the
  Makefile.
* Added some tests for those bugs.

2003-09-02  Sean M. Burke <sburke@cpan.org>
* Release 2.02 -- fixing a testing bug
* Autrijus Tang found a silly bug of mine in corpustest.t's
  testing of corpus/t/nonesuch.txt. Fixed,
* I add encoding_nonesuch.t to test corpus/t/nonesuch.txt better.

2003-09-01  Sean M. Burke <sburke@cpan.org>
* Release 2.01
* Moved all version numbers up to 2.01 for reasons of Tibetan
  numerology.

* Implemented =encoding. Thanks a million to Jarkko, Autrijus,
  Dan Kogai, and many others for their help, patience, and
  encouragement.

It's not yet documented, but see ./t/corpus/*.txt for examples at
least.

* Added 'use utf8' to all the modules. Byebye perl-5.005
  compatibility, hello decent perl-5.6 compatibility.

----------------------------------------

2003-09-01  Sean M. Burke <sburke@cpan.org>
* Release 0.98
* At Michael Schwern's suggestion, a list that begins with a
  "=item [number]" line where number isn't a 1, is no longer
  treated as an error, but instead is silently coerced into being a
  text-item list, just as if it were "=item wubble" or whatever.

2003-08-12  Sean M. Burke <sburke@cpan.org>
* Release 0.97
* Looking goooooood. Not smelling so much like beta anymore!
* I think this might be the last version before I go
putting "use utf8" all over the place.

* Added placeholders for "=encoding" support. If you use
"=encoding", you'll get an error about "not yet implemented"
instead of "unknown directive".

* Rewrote Pod::Simple::Pullparser's get_title, and added
get_version, get_author, and get_description. Documented them.
Thanks to Graham Barr for contributing an initial get_title and
then being patient while I seemed to do nothing with it for months
on end!

* More tests.

Otherwise just minor changes since last version:
* Fixed error in Pod::Simple::RTF.
* Added new but undocumented methods to Pod::Simple:
  unaccept_directive(s) unaccept_target(s) unaccept_code(s)
* Corrected '='back without =open' error to '='back without =over'
* A little tweaking to the _verbatim_format code.
* Dump routines may use \x{NN} instead of \xNN format.
* Pod::Simple::HTML now uses VerbatimFormatted
* A few changes of DEBUG messages -- nothing you'd normally see.

2002-11-19 Sean M. Burke <sburke@cpan.org>
* Release 0.96
* Still kinda sorta beta.

* Much much more docs in this version. Only a few feature
changes:

* Added any_errata_seen to Pod::Simple. Should've been in there
  ages ago. Oops!
* Fixed some errors in the experimental VerbatimFormatted code.
* Added is_tagname / is_tag to Pod::Simple::PullParserStartToken
  and Pod::Simple::PullParserEndToken
* Added RTFDEFLANG stuff to Pod::Simple::RTF.

2002-11-10 Sean M. Burke <sburke@cpan.org>
* Release 0.95
* Beta release. Much documentation still to write, many features
  still to add. The APIs might change in future versions.

* Now including perlpod and perlpodspec in the dist.

* Pod::Simple -- added parse_from_file
* Pod::Simple::RTF -- minor style changes, and minor change to the
  RTF-wrapping logic.
* Pod::Simple::BlackBox -- a =cut opening a block is no longer a fatal(ish) error.
* Pod::Simple::BlackBox -- added experimental new VerbatimFormattted stuff.

2002-10-16  Sean M. Burke <sburke@cpan.org>
* Release 0.94
* Beta release. Much documentation still to write, many features still to add. The APIs might change in future versions.

* Pod::Simple::RTF -- minor style tweaks
* Pod::Simple::PullParserEndToken and ::PullParserStartToken -- added ->tag as an alias for ->tagname.
* Pod::Simple and Pod::Simple::BlackBox -- added tolerance for "=item * Foo" as a variant syntax for "=item *

Foo". Tests added/changed accordingly.
* Pod::Simple::HTML -- added <a name="..."> stuff, and a hack at doing something with X<...>'s.

2002-09-29  Sean M. Burke <sburke@cpan.org>
* Release 0.93
* Beta release. Much documentation still to write, many features still to add. The APIs might change in future versions.

* Pod::Simple -- added errors_seen attribute
* Pod::Simple::HTML -- added support for =for HTML ... directives, and =extend directives.
* Oh, and I added Pod::Simple::RTF in 0.92 but forgot to note it until now.

2002-09-29  Sean M. Burke <sburke@cpan.org>
* Release 0.92
* Beta release. Much documentation still to write, many features still to add. The APIs might change in future versions.

* Fixing bungled distribution.

2002-09-29  Sean M. Burke <sburke@cpan.org>
* Release 0.91
* Beta release. Much documentation still to write, many features still to add. The APIs might change in future versions.

* Pod::Simple::PullParserTextToken -- added 'text_r'

* Pod::Simple::PullParser -- added 'get_title' and 'get_title_short' to
* Pod::Simple -- corrected wording of "Format for second =extend parameter" error message.

* Pod::PullParser -- made its filter() run as intended, like Pod::Simple's filter.

* Pod::Subclassing -- more docs

2002-09-11  Sean M. Burke <sburke@cpan.org>
* Release 0.90
* Beta release. Much documentation still to write, many features still to add. The APIs might change in future versions.

Found in path(s):
* /opt/cola/permits/1185063596_1627671001.2/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-X7wIog47/Pod-Simple-3.35.tar.gz-cosi-expand-archive-DlGwns5S/Pod-Simple-3.35/ChangeLog

No license file was found, but licenses were detected in source scan.

=head1 NAME

perfaq3 - Programming Tools ($Revision: 1.38 $, $Date: 1999/05/23 16:08:30 $)

=head1 DESCRIPTION

This section of the FAQ answers questions related to programmer tools and programming support.

=head2 How do I do (anything)?

Have you looked at CPAN (see L< perlfaq2 >)? The chances are that someone has already written a module that can solve your problem.
Have you read the appropriate man pages? Here's a brief index:

Basics perldata, perlvar, perlsyn, perlop, perls
Execution perlrun, perldebug
Functions perfunc
Objects perlref, perlmod, perlobj, perltie
Data Structures perlref, perllol, perldsc
Modules perlmod, perlmodlib, perls
Regexes perlre, perlfunc, perlop, perllocale
Moving to perl5 perltrap, perl
Linking w/C perlxstut, perlxs, perlc, perlgs, perlembed
(not a man-page but still useful)

A crude table of contents for the Perl man page set is found in L< perltoe >.
How can I use Perl interactively?

The typical approach uses the Perl debugger, described in the perldebug(1) man page, on an "empty" program, like this:

```
perl -de 42
```

Now just type in any legal Perl code, and it will be immediately evaluated. You can also examine the symbol table, get stack backtraces, check variable values, set breakpoints, and other operations typically found in symbolic debuggers.

Is there a Perl shell?

In general, no. The Shell.pm module (distributed with Perl) makes Perl try commands which aren't part of the Perl language as shell commands. perlsh from the source distribution is simplistic and uninteresting, but may still be what you want.

How do I debug my Perl programs?

Have you tried `use warnings` or used `-w`? They enable warnings to detect dubious practices.

Have you tried `use strict`? It prevents you from using symbolic references, makes you predeclare any subroutines that you call as bare words, and (probably most importantly) forces you to predeclare your variables with `my`, `our`, or `use vars`.

Did you check the return values of each and every system call? The operating system (and thus Perl) tells you whether they worked, and if not why.

```
open(FH, "> /etc/cantwrite")
  or die "Couldn't write to /etc/cantwrite: $!
"
```

Did you read `perltrap`? It's full of gotchas for old and new Perl programmers and even has sections for those of you who are upgrading from languages like `awk` and `C`.

Have you tried the Perl debugger, described in `perldebug`? You can step through your program and see what it's doing and thus work out why what it's doing isn't what it should be doing.

How do I profile my Perl programs?

You should get the Devel::DProf module from the standard distribution (or separately on CPAN) and also use Benchmark.pm from the standard
distribution. The Benchmark module lets you time specific portions of your code, while Devel::DProf gives detailed breakdowns of where your code spends its time.

Here's a sample use of Benchmark:

```perl
use Benchmark;

@junk = `cat /etc/motd`;
$count = 10_000;

timethese($count, {
   'map' => sub { my @a = @junk;
      map { s/a/b/ } @a;
      return @a }
   },
   'for' => sub { my @a = @junk;
      local $_;
      for (@a) { s/a/b/ }
      return @a },
   });
```

This is what it prints (on one machine--your results will be dependent on your hardware, operating system, and the load on your machine):

```
Benchmark: timing 10000 iterations of for, map...
  for:  4 secs ( 3.97 usr  0.01 sys =  3.98 cpu)
  map:  6 secs ( 4.97 usr  0.00 sys =  4.97 cpu)
```

Be aware that a good benchmark is very hard to write. It only tests the data you give it and proves little about the differing complexities of contrasting algorithms.

=head2 How do I cross-reference my Perl programs?

The B::Xref module, shipped with the new, alpha-release Perl compiler (not the general distribution prior to the 5.005 release), can be used to generate cross-reference reports for Perl programs.

```
perl -MO=Xref,OPTIONS scriptname.plx
```

=head2 Is there a pretty-printer (formatter) for Perl?

There is no program that will reformat Perl as much as indent(1) does for C. The complex feedback between the scanner and the parser (this feedback is what confuses the vgrind and emacs programs) makes it challenging at best to write a stand-alone Perl parser.
Of course, if you simply follow the guidelines in `perlstyle`, you shouldn't need to reformat. The habit of formatting your code as you write it will help prevent bugs. Your editor can and should help you with this. The perl-mode or newer cperl-mode for emacs can provide remarkable amounts of help with most (but not all) code, and even less programmable editors can provide significant assistance. Tom swears by the following settings in vi and its clones:

```
set ai sw=4
map! ^O {^M}^[O^T
```

Now put that in your `.exrc` file (replacing the caret characters with control characters) and away you go. In insert mode, `^T` is for indenting, `^D` is for undenting, and `^O` is for blockdenting--as it were. If you haven't used the last one, you're missing a lot. A more complete example, with comments, can be found at http://www.perl.com/CPAN-local/authors/id/TOMC/scripts/toms.exrc.gz

If you are used to using the `vgrind` program for printing out nice code to a laser printer, you can take a stab at this using http://www.perl.com/CPAN/doc/misc/tips/working.vgrind.entry, but the results are not particularly satisfying for sophisticated code.

The a2ps at http://www.infres.enst.fr/~Edemaille/a2ps/ does lots of things related to generating nicely printed output of documents.

=head2 Is there a ctags for Perl?

There's a simple one at http://www.perl.com/CPAN/authors/id/TOMC/scripts/ptags.gz which may do the trick. And if not, it's easy to hack into what you want.

=head2 Is there an IDE or Windows Perl Editor?

Perl programs are just plain text, so any editor will do.

If you're on Unix, you already have an IDE--Unix itself. The UNIX philosophy is the philosophy of several small tools that each do one thing and do it well. It's like a carpenter's toolbox.

If you want a Windows IDE, check the following:

=over 4

=item CodeMagicCD

http://www.codemagiccd.com/
Item Komodo

ActiveState's cross-platform, multi-language IDE has Perl support, including a regular expression debugger and remote debugging (http://www.ActiveState.com/Products/Komodo/index.html). (Visual Perl, a Visual Studio.NET plug-in is currently (early 2001) in beta (http://www.ActiveState.com/Products/VisualPerl/index.html)).

Item The Object System

(http://www.castlelink.co.uk/object_system/) is a Perl web applications development IDE.

Item PerlBuilder

(http://www.solutionsoft.com/perl.htm) is an integrated development environment for Windows that supports Perl development.

Item Perl code magic

(http://www.petes-place.com/codemagic.html).

Item visiPerl+

http://helpconsulting.net/visiperl/, from Help Consulting.

For editors: if you're on Unix you probably have vi or a vi clone already, and possibly an emacs too, so you may not need to download anything. In any emacs the cperl-mode (M-x cperl-mode) gives you perhaps the best available Perl editing mode in any editor.

For Windows editors: you can download an Emacs

=over 4

Item GNU Emacs

http://www.gnu.org/software/emacs/windows/ntemacs.html

Item MicroEMACS

http://members.nbci.com/uemacs/

Item XEmacs

http://www.xemacs.org/Download/index.html
or a vi clone such as

=item Elvis

=item Vile
http://vile.cx/

=item Vim
http://www.vim.org/


For vi lovers in general, Windows or elsewhere:

nvi (http://www.bostic.com/vi/, available from CPAN in src/misc/) is
yet another vi clone, unfortunately not available for Windows, but in
UNIX platforms you might be interested in trying it out, firstly because
strictly speaking it is not a vi clone, it is the real vi, or the new
incarnation of it, and secondly because you can embed Perl inside it
to use Perl as the scripting language. nvi is not alone in this,
though: at least also vim and vile offer an embedded Perl.

The following are Win32 multilanguage editor/IDESs that support Perl:

=item Codewright
http://www.starbase.com/

=item MultiEdit

=item SlickEdit
There is also a toyedit Text widget based editor written in Perl that is distributed with the Tk module on CPAN. The ptkdb (http://world.std.com/~aep/ptkdb/) is a Perl/tk based debugger that acts as a development environment of sorts. Perl Composer (http://perlcomposer.sourceforge.net/vperl.html) is an IDE for Perl/Tk GUI creation.

In addition to an editor/IDE you might be interested in a more powerful shell environment for Win32. Your options include

- Bash
  from the Cygwin package (http://sources.redhat.com/cygwin/)

- Ksh
  from the MKS Toolkit (http://www.mks.com/), or the Bourne shell of the U/WIN environment (http://www.research.att.com/sw/tools/uwin/)

- Tcsh

- Zsh
  ftp://ftp.blarg.net/users/amol/zsh/, see also http://www.zsh.org/

MKS and U/WIN are commercial (U/WIN is free for educational and research purposes), Cygwin is covered by the GNU Public License (but that shouldn't matter for Perl use). The Cygwin, MKS, and U/WIN all contain (in addition to the shells) a comprehensive set of standard UNIX toolkit utilities.

If you're transferring text files between Unix and Windows using FTP be sure to transfer them in ASCII mode so the ends of lines are appropriately converted.

On Mac OS the MacPerl Application comes with a simple 32k text editor that behaves like a rudimentary IDE. In contrast to the MacPerl Application
the MPW Perl tool can make use of the MPW Shell itself as an editor (with no 32k limit).

=item BBEdit and BBEdit Lite

are text editors for Mac OS that have a Perl sensitivity mode (http://web.barebones.com/).

=item Alpha

is an editor, written and extensible in Tcl, that nonetheless has built in support for several popular markup and programming languages including Perl and HTML (http://alpha.olm.net/).

Pepper and Pe are programming language sensitive text editors for Mac OS X and BeOS respectively (http://www.hekkelman.com/).

=head2 Where can I get Perl macros for vi?

For a complete version of Tom Christiansen's vi configuration file, see http://www.perl.com/CPAN/authors/Tom_Christiansen/scripts/toms.exrc.gz, the standard benchmark file for vi emulators. The file runs best with nvi, the current version of vi out of Berkeley, which incidentally can be built with an embedded Perl interpreter—see http://www.perl.com/CPAN/src/misc.

=head2 Where can I get perl-mode for emacs?

Since Emacs version 19 patchlevel 22 or so, there have been both a perl-mode.el and support for the Perl debugger built in. These should come with the standard Emacs 19 distribution.

In the Perl source directory, you'll find a directory called "emacs", which contains a cperl-mode that color-codes keywords, provides context-sensitive help, and other nifty things.

Note that the perl-mode of emacs will have fits with C"main'foo" (single quote), and mess up the indentation and highlighting. You are probably using C"main::foo" in new Perl code anyway, so this shouldn't be an issue.

=head2 How can I use curses with Perl?

The Curses module from CPAN provides a dynamically loadable object module interface to a curses library. A small demo can be found at the
directory http://www.perl.com/CPAN/authors/Tom_Christiansen/scripts/rep; this program repeats a command and updates the screen as needed, rendering B<rep ps axu> similar to B<top>.

=head2 How can I use X or Tk with Perl?

Tk is a completely Perl-based, object-oriented interface to the Tk toolkit that doesn't force you to use Tcl just to get at Tk. Sx is an interface to the Athena Widget set. Both are available from CPAN. See the directory http://www.perl.com/CPAN/modules/by-category/08_User_Interfaces/


=head2 How can I generate simple menus without using CGI or Tk?

The http://www.perl.com/CPAN/authors/id/SKUNZ/perlmenu.v4.0.tar.gz module, which is curses-based, can help with this.

=head2 What is undump?

See the next question on "$How can I make my Perl program run faster?"

=head2 How can I make my Perl program run faster?

The best way to do this is to come up with a better algorithm. This can often make a dramatic difference. Jon Bentley's book "Programming Pearls" (that's not a misspelling!) has some good tips on optimization, too. Advice on benchmarking boils down to: benchmark and profile to make sure you're optimizing the right part, look for better algorithms instead of microtuning your code, and when all else fails consider just buying faster hardware.

A different approach is to autoload seldom-used Perl code. See the AutoSplit and AutoLoader modules in the standard distribution for that. Or you could locate the bottleneck and think about writing just that part in C, the way we used to take bottlenecks in C code and write them in assembler. Similar to rewriting in C, modules that have critical sections can be written in C (for instance, the PDL module from CPAN).

In some cases, it may be worth it to use the backend compiler to produce byte code (saving compilation time) or compile into C, which will certainly save compilation time and sometimes a small amount (but
not much) execution time. See the question about compiling your Perl programs for more on the compiler--the wins aren't as obvious as you'd hope.

If you're currently linking your perl executable to a shared libc.so, you can often gain a 10-25% performance benefit by rebuilding it to link with a static libc.a instead. This will make a bigger perl executable, but your Perl programs (and programmers) may thank you for it. See the INSTALL file in the source distribution for more information.

Unsubstantiated reports allege that Perl interpreters that use sfio outperform those that don't (for I/O intensive applications). To try this, see the INSTALL file in the source distribution, especially the "Selecting File I/O mechanisms" section.

The undump program was an old attempt to speed up your Perl program by storing the already-compiled form to disk. This is no longer a viable option, as it only worked on a few architectures, and wasn't a good solution anyway.

=head2 How can I make my Perl program take less memory?

When it comes to time-space tradeoffs, Perl nearly always prefers to throw memory at a problem. Scalars in Perl use more memory than strings in C, arrays take more than that, and hashes use even more. While there's still a lot to be done, recent releases have been addressing these issues. For example, as of 5.004, duplicate hash keys are shared amongst all hashes using them, so require no reallocation.

In some cases, using substr() or vec() to simulate arrays can be highly beneficial. For example, an array of a thousand booleans will take at least 20,000 bytes of space, but it can be turned into one 125-byte bit vector--a considerable memory savings. The standard Tie::SubstrHash module can also help for certain types of data structure. If you're working with specialist data structures (matrices, for instance) modules that implement these in C may use less memory than equivalent Perl modules.

Another thing to try is learning whether your Perl was compiled with the system malloc or with Perl's builtin malloc. Whichever one it is, try using the other one and see whether this makes a difference. Information about malloc is in the INSTALL file in the source distribution. You can find out whether you are using perl's malloc by typing C<perl -V:useymalloc>.

=head2 Is it unsafe to return a pointer to local data?
sub makeone {
    my @a = ( 1 .. 10 );
    return \@a;
}

for $i ( 1 .. 10 ) {
    push @many, makeone();
}

print $many[4][5], "\n";

print "@many\n";

=head2 How can I free an array or hash so my program shrinks?

You can't. On most operating systems, memory allocated to a program can never be returned to the system. That's why long-running programs sometimes re-exec themselves. Some operating systems (notably, FreeBSD and Linux) allegedly reclaim large chunks of memory that is no longer used, but it doesn't appear to happen with Perl (yet). The Mac appears to be the only platform that will reliably (albeit, slowly) return memory to the OS.

We've had reports that on Linux (Redhat 5.1) on Intel, C<undef $scalar> will return memory to the system, while on Solaris 2.6 it won't. In general, try it yourself and see.

However, judicious use of my() on your variables will help make sure that they go out of scope so that Perl can free up that space for use in other parts of your program. A global variable, of course, never goes out of scope, so you can't get its space automatically reclaimed, although undef()ing and/or delete()ing it will achieve the same effect. In general, memory allocation and de-allocation isn't something you can or should be worrying about much in Perl, but even this capability (preallocation of data types) is in the works.

=head2 How can I make my CGI script more efficient?

Beyond the normal measures described to make general Perl programs faster or smaller, a CGI program has additional issues. It may be run several times per second. Given that each time it runs it will need to be re-compiled and will often allocate a megabyte or more of system memory, this can be a killer. Compiling into C B<isn't going to help you> because the process start-up overhead is where the bottleneck is.

There are two popular ways to avoid this overhead. One solution
involves running the Apache HTTP server (available from http://www.apache.org/) with either of the mod_perl or mod_fastcgi plugin modules.

With mod_perl and the Apache::Registry module (distributed with mod_perl), httpd will run with an embedded Perl interpreter which pre-compiles your script and then executes it within the same address space without forking. The Apache extension also gives Perl access to the internal server API, so modules written in Perl can do just about anything a module written in C can. For more on mod_perl, see http://perl.apache.org/

With the FCGI module (from CPAN) and the mod_fastcgi module (available from http://www.fastcgi.com/) each of your Perl programs becomes a permanent CGI daemon process.

Both of these solutions can have far-reaching effects on your system and on the way you write your CGI programs, so investigate them with care.


A non-free, commercial product, "The Velocity Engine for Perl", (http://www.binevolve.com/ or http://www.binevolve.com/velocigen/) might also be worth looking at. It will allow you to increase the performance of your Perl programs, running programs up to 25 times faster than normal CGI Perl when running in persistent Perl mode or 4 to 5 times faster without any modification to your existing CGI programs. Fully functional evaluation copies are available from the web site.

=head2 How can I hide the source for my Perl program?

Delete it. :-) Seriously, there are a number of (mostly unsatisfactory) solutions with varying levels of "security".

First of all, however, you I<can't> take away read permission, because the source code has to be readable in order to be compiled and interpreted. (That doesn't mean that a CGI script's source is readable by people on the web, though--only by people with access to the filesystem.) So you have to leave the permissions at the socially friendly 0755 level.

Some people regard this as a security problem. If your program does insecure things and relies on people not knowing how to exploit those insecurities, it is not secure. It is often possible for someone to determine the insecure things and exploit them without viewing the source. Security through obscurity, the name for hiding your bugs
instead of fixing them, is little security indeed.

You can try using encryption via source filters (Filter::* from CPAN), but any decent programmer will be able to decrypt it. You can try using the byte code compiler and interpreter described below, but the curious might still be able to de-compile it. You can try using the native-code compiler described below, but crackers might be able to disassemble it. These pose varying degrees of difficulty to people wanting to get at your code, but none can definitively conceal it (true of every language, not just Perl).

If you're concerned about people profiting from your code, then the bottom line is that nothing but a restrictive license will give you legal security. License your software and pepper it with threatening statements like ``This is unpublished proprietary software of XYZ Corp. Your access to it does not give you permission to use it blah blah blah.” We are not lawyers, of course, so you should see a lawyer if you want to be sure your license’s wording will stand up in court.

=head2 How can I compile my Perl program into byte code or C?

Malcolm Beattie has written a multifunction backend compiler, available from CPAN, that can do both these things. It is included in the perl5.005 release, but is still considered experimental. This means it’s fun to play with if you’re a programmer but not really for people looking for turn-key solutions.

Merely compiling into C does not in and of itself guarantee that your code will run very much faster. That's because except for lucky cases where a lot of native type inferencing is possible, the normal Perl run-time system is still present and so your program will take just as long to run and be just as big. Most programs save little more than compilation time, leaving execution no more than 10-30% faster. A few rare programs actually benefit significantly (even running several times faster), but this takes some tweaking of your code.

You'll probably be astonished to learn that the current version of the compiler generates a compiled form of your script whose executable is just as big as the original perl executable, and then some. That's because as currently written, all programs are prepared for a full eval() statement. You can tremendously reduce this cost by building a shared I<libperl.so> library and linking against that. See the F<INSTALL> podfile in the Perl source distribution for details. If you link your main perl binary with this, it will make it minuscule. For example, on one author's system, F</usr/bin/perl> is only 11k in size!

In general, the compiler will do nothing to make a Perl program smaller,
faster, more portable, or more secure. In fact, it can make your situation worse. The executable will be bigger, your VM system may take longer to load the whole thing, the binary is fragile and hard to fix, and compilation never stopped software piracy in the form of crackers, viruses, or bootleggers. The real advantage of the compiler is merely packaging, and once you see the size of what it makes (well, unless you use a shared I<libperl.so>), you'll probably want a complete Perl install anyway.

=head2 How can I compile Perl into Java?

You can also integrate Java and Perl with the Perl Resource Kit from O'Reilly and Associates. See http://www.oreilly.com/catalog/prkunix/.

Perl 5.6 comes with Java Perl Lingo, or JPL. JPL, still in development, allows Perl code to be called from Java. See jpl/README in the Perl source tree.

=head2 How can I get C<#!perl> to work on [MS-DOS,NT,...]?

For OS/2 just use

    extproc perl -S -your_switches

as the first line in C<*.cmd> file (C<-S> due to a bug in cmd.exe's `extproc' handling). For DOS one should first invent a corresponding batch file and codify it in C<ALTERNATIVE_SHEBANG> (see the F<INSTALL> file in the source distribution for more information).

The Win95/NT installation, when using the ActiveState port of Perl, will modify the Registry to associate the C<.pl> extension with the perl interpreter. If you install another port, perhaps even building your own Win95/NT Perl from the standard sources by using a Windows port of gcc (e.g., with cygwin or mingw32), then you'll have to modify the Registry yourself. In addition to associating C<.pl> with the interpreter, NT people can use: C<SET PATHEXT=%PATHEXT%;.PL> to let them run the program C<install-linux.pl> merely by typing C<install-linux>.

Macintosh Perl programs will have the appropriate Creator and Type, so that double-clicking them will invoke the Perl application.

I<IMPORTANT!>: Whatever you do, PLEASE don't get frustrated, and just throw the perl interpreter into your cgi-bin directory, in order to get your programs working for a web server. This is an EXTREMELY big security risk. Take the time to figure out how to do it correctly.

=head2 Can I write useful Perl programs on the command line?
Yes. Read L<perlrun> for more information. Some examples follow. (These assume standard Unix shell quoting rules.)

# sum first and last fields
perl -lane 'print $F[0] + $F[-1]' *

# identify text files
perl -le 'for(@ARGV) {print if -f && -T_}' *

# remove (most) comments from C program
perl -0777 -pe 's{//*/}{}gs' foo.c

# make file a month younger than today, defeating reaper daemons
perl -e '$X=24*60*60; utime(time(),time() + 30 * $X,@ARGV)' *

# find first unused uid
perl -le '$i++ while getpwuid($i); print $i'

# display reasonable manpath
echo $PATH | perl -nl -072 -e '
\s!([^/]+)$!man!\&\&-d&&!/s{$_}++\&\&push@m,$$_;END{print"@m"}'

OK, the last one was actually an Obfuscated Perl Contest entry. :-)

=head2 Why don't Perl one-liners work on my DOS/Mac/VMS system?

The problem is usually that the command interpreters on those systems have rather different ideas about quoting than the Unix shells under which the one-liners were created. On some systems, you may have to change single-quotes to double ones, which you must I<NOT> do on Unix or Plan9 systems. You might also have to change a single % to a %%.

For example:

# Unix
perl -e 'print "Hello world\n"

# DOS, etc.
perl -e "print \"Hello world\n"

# Mac
print "Hello world\n"
(then Run "Myscript" or Shift-Command-R)

# VMS
perl -e "print ""Hello world\n""
The problem is that none of these examples are reliable: they depend on the command interpreter. Under Unix, the first two often work. Under DOS, it's entirely possible that neither works. If 4DOS was the command shell, you'd probably have better luck like this:

```
perl -e "print <Ctrl-x>"Hello world\n<Ctrl-x>"
```

Under the Mac, it depends which environment you are using. The MacPerl shell, or MPW, is much like Unix shells in its support for several quoting variants, except that it makes free use of the Mac's non-ASCII characters as control characters.

Using qq(), q(), and qx(), instead of "double quotes", 'single quotes', and `backticks`, may make one-liners easier to write.

There is no general solution to all of this. It is a mess, pure and simple. Sucks to be away from Unix, huh? :-)

[Some of this answer was contributed by Kenneth Albanowski.]

=head2 Where can I learn about CGI or Web programming in Perl?

For modules, get the CGI or LWP modules from CPAN. For textbooks, see the two especially dedicated to web stuff in the question on books. For problems and questions related to the web, like "Why do I get 500 Errors" or "Why doesn't it run from the browser right when it runs fine on the command line", see these sources:

WWW Security FAQ
   http://www.w3.org/Security/Faq/

Web FAQ
   http://www.boutell.com/faq/

CGI FAQ
   http://www.webthing.com/tutorials/cgifaq.html

HTTP Spec
   http://www.w3.org/pub/WWW/Protocols/HTTP/

HTML Spec
   http://www.w3.org/TR/REC-html40/
   http://www.w3.org/pub/WWW/MarkUp/

CGI Spec
   http://www.w3.org/CGI/

CGI Security FAQ
Where can I learn about object-oriented Perl programming?

A good place to start is L<perltoot>, and you can use L<perlobj>, L<perlboot>, and L<perlbot> for reference. Perltoot didn't come out until the 5.004 release; you can get a copy (in pod, html, or postscript) from http://www.perl.com/CPAN/doc/FMTEYEWTK/.

Where can I learn about linking C with Perl? [h2xs, xsubpp]

If you want to call C from Perl, start with L<perlxstut>, moving on to L<perlxs>, L<xsubpp>, and L<perlguts>. If you want to call Perl from C, then read L<perlembed>, L<percall>, and L<perlguts>. Don't forget that you can learn a lot from looking at how the authors of existing extension modules wrote their code and solved their problems.

I've read perlembed, perl guts, etc., but I can't embed perl in my C program; what am I doing wrong?

Download the ExtUtils::Embed kit from CPAN and run `make test`. If the tests pass, read the pods again and again and again. If they fail, see L<perlbug> and send a bug report with the output of C<make test TEST_VERBOSE=1> along with C<perl -V>.

When I tried to run my script, I got this message. What does it mean?

A complete list of Perl's error messages and warnings with explanatory text can be found in L<perldiag>. You can also use the splain program (distributed with Perl) to explain the error messages:

perl program 2>diag.out
splain [-v] [-p] diag.out

or change your program to explain the messages for you:

use diagnostics;

or

use diagnostics -verbose;

What's MakeMaker?

This module (part of the standard Perl distribution) is designed to write a Makefile for an extension module from a Makefile.PL. For more
=head1 AUTHOR AND COPYRIGHT

Copyright (c) 1997-1999 Tom Christiansen and Nathan Torkington. All rights reserved.

When included as an integrated part of the Standard Distribution of Perl or of its documentation (printed or otherwise), this works is covered under Perl's Artistic License. For separate distributions of all or part of this FAQ outside of that, see L<perlfaq>.

Irrespective of its distribution, all code examples here are in the public domain. You are permitted and encouraged to use this code and any derivatives thereof in your own programs for fun or for profit as you see fit. A simple comment in the code giving credit to the FAQ would be courteous but is not required.

Found in path(s):
* /opt/cola/permits/1185063596_1627671001.2/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-X7wIog47/Pod-Simple-3.35.tar.gz-cosi-expand-archive-DIGwns5S/Pod-Simple-3.35/|/perfaq.pod
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple - framework for parsing Pod

=head1 SYNOPSIS

TODO

=head1 DESCRIPTION

Pod::Simple is a Perl library for parsing text in the Pod ("plain old documentation") markup language that is typically used for writing documentation for Perl and for Perl modules. The Pod format is explained in L<perlpod>; the most common formatter is called C<perldoc>.

Be sure to read L</ENCODING> if your Pod contains non-ASCII characters.

Pod formatters can use Pod::Simple to parse Pod documents and render them into plain text, HTML, or any number of other formats. Typically, such formatters will be subclasses of Pod::Simple, and so they will inherit its methods, like C<parse_file>.

If you're reading this document just because you have a Pod-processing subclass that you want to use, this document (plus the documentation for the subclass) is probably all you need to read.
If you're reading this document because you want to write a formatter subclass, continue reading it and then read L<Pod::Simple::Subclassing>, and then possibly even read L<perlpodspec> (some of which is for parser-writers, but much of which is notes to formatter-writers).

=head1 MAIN METHODS

=over

=item C<< $parser = I<SomeClass>-new(); >>

This returns a new parser object, where I<SomeClass> is a subclass of Pod::Simple.

=item C<< $parser->output_fh( *OUT ); >>

This sets the filehandle that C<$parser>'s output will be written to. You can pass C<*STDOUT> or C<*STDERR>, otherwise you should probably do something like this:

my $outfile = "output.txt";
open TXTOUT, ">$outfile" or die "Can't write to $outfile: !";
$parser->output_fh(TXTOUT);

...before you call one of the C<< $parser->parse_I<whatever> >> methods.

=item C<< $parser->output_string( \$somestring ); >>

This sets the string that C<$parser>'s output will be sent to, instead of any filehandle.

=item C<< $parser->parse_file( I<$some_filename> ); >>

=item C<< $parser->parse_file( *INPUT_FH ); >>

This reads the Pod content of the file (or filehandle) that you specify, and processes it with that C<$parser> object, according to however C<$parser>’s class works, and according to whatever parser options you have set up for this C<$parser> object.

=item C<< $parser->parse_string_document( I<$all_content> ); >>

This works just like C<parse_file> except that it reads the Pod content not from a file, but from a string that you have already in memory.
This processes the lines in \{@lines\} (where each list item must be a defined value, and must contain exactly one line of content -- so no items like C\"foo
bar\" are allowed). The final C<undef> is used to indicate the end of document being parsed.

The other C<parser_I<whatever>> methods are meant to be called only once per C<Parser> object; but C<parse_lines> can be called as many times per C<$parser> object as you want, as long as the last call (and only the last call) ends with an C<undef> value.

This returns true only if there has been any real content seen for this document. Returns false in cases where the document contains content, but does not make use of any Pod markup.

This is a shortcut method for creating a new parser object, setting the output handle to STDOUT, and then processing the specified file (or filehandle, or in-memory document). This is handy for one-liners like this:

perl -MPod::Simple::Text -e "Pod::Simple::Text->filter('thingy.pod')"

=head1 SECONDARY METHODS

Some of these methods might be of interest to general users, as well as of interest to formatter-writers.

Note that the general pattern here is that the accessor-methods read the attribute's value with C<< $value = $parser->I<attribute> >> and set the attribute's value with C<< $parser->I<attribute>(I<newvalue>) >>. For each accessor, I typically only mention one syntax or another, based on which I think you are actually most likely to use.
The Pod parser normally expects to read octets and to convert those octets to characters based on the C<encoding> declaration in the Pod source. Set this option to a true value to indicate that the Pod source is already a Perl character stream. This tells the parser to ignore any C<encoding> command and to skip all the code paths involving decoding octets.

If you set this attribute to a true value, you will suppress the parser's complaints about irregularities in the Pod coding. By default, this attribute's value is false, meaning that irregularities will be reported.

Note that turning this attribute to true won't suppress one or two kinds of complaints about rarely occurring unrecoverable errors.

If you set this attribute to a true value, you will stop the parser from generating a "POD ERRORS" section at the end of the document. By default, this attribute's value is false, meaning that an errata section will be generated, as necessary.

If you set this attribute to a true value, it will send reports of parsing errors to STDERR. By default, this attribute's value is false, meaning that no output is sent to STDERR.

Setting C<complain_stderr> also sets C<no_errata_section>.

This returns the filename that this parser object was set to read from.

This returns true if C<$parser> has read from a source, and has seen Pod content in it.
This returns true if \$parser has read from a source, and come to the end of that source.

The perlpod spec for a Verbatim paragraph is "It should be reproduced exactly...", which means that the whitespace you've used to indent your verbatim blocks will be preserved in the output. This can be annoying for outputs such as HTML, where that whitespace will remain in front of every line. It's an unfortunate case where syntax is turned into semantics.

If the POD you're parsing adheres to a consistent indentation policy, you can have such indentation stripped from the beginning of every line of your verbatim blocks. This method tells Pod::Simple what to strip. For two-space indents, you'd use:

\$parser->strip_verbatim_indent('  ');

For tab indents, you'd use a tab character:

\$parser->strip_verbatim_indent("\t");

If the POD is inconsistent about the indentation of verbatim blocks, but you have figured out a heuristic to determine how much a particular verbatim block is indented, you can pass a code reference instead. The code reference will be executed with one argument, an array reference of all the lines in the verbatim block, and should return the value to be stripped from each line. For example, if you decide that you're fine to use the first line of the verbatim block to set the standard for indentation of the rest of the block, you can look at the first line and return the appropriate value, like so:

\$new->strip_verbatim_indent(sub {
    my $lines = shift;
    (my $indent = $lines->[0]) =~ s/\S.*//;
    return $indent;
});

If you'd rather treat each line individually, you can do that, too, by just transforming them in-place in the code reference and returning \$undef. Say that you don't want any lines indented. You can do something like this:

\$new->strip_verbatim_indent(sub {
    my $lines = shift;
    sub { s/^\s+// for @ $lines },
return undef;
}:

=back

=head1 TERTIARY METHODS

=over

=item C<< $parser->abandon_output_fh() >>X<abandon_output_fh>

Cancel output to the file handle. Any POD read by the C<$parser> is not affected.

=item C<< $parser->abandon_output_string() >>X<abandon_output_string>

Cancel output to the output string. Any POD read by the C<$parser> is not affected.

=item C<< $parser->accept_code( @codes ) >>X<accept_code>

Alias for L<< accept_codes >>.

=item C<< $parser->accept_codes( @codes ) >>X<accept_codes>

Allows C<$parser> to accept a list of L<perlpod/Formatting Codes>. This can be used to implement user-defined codes.

=item C<< $parser->accept_directive_as_data( @directives ) >>X<accept_directive_as_data>

Allows C<$parser> to accept a list of directives for data paragraphs. A directive is the label of a L<perlpod/Command Paragraph>. A data paragraph is one delimited by C<< =begin/=for/=end >> directives. This can be used to implement user-defined directives.

=item C<< $parser->accept_directive_as_processed( @directives ) >>X<accept_directive_as_processed>

Allows C<$parser> to accept a list of directives for processed paragraphs. A directive is the label of a L<perlpod/Command Paragraph>. A processed paragraph is also known as L<perlpod/Ordinary Paragraph>. This can be used to implement user-defined directives.

=item C<< $parser->accept_directive_as_verbatim( @directives ) >>X<accept_directive_as_verbatim>

Allows C<$parser> to accept a list of directives for L<perlpod/Verbatim Paragraph>. A directive is the label of a L<perlpod/Command Paragraph>. This can be used to implement user-defined directives.
=item C<< $parser->accept_target( @targets ) >> X<accept_target>

Alias for L<< accept_targets >>.

=item C<< $parser->accept_target_as_text( @targets ) >> X<accept_target_as_text>

Alias for L<< accept_targets_as_text >>.

=item C<< $parser->accept_targets( @targets ) >> X<accept_targets>

Accepts targets for C<< =begin/=for/=end >> sections of the POD.

=item C<< $parser->accept_targets_as_text( @targets ) >> X<accept_targets_as_text>

Accepts targets for C<< =begin/=for/=end >> sections that should be parsed as POD. For details, see L<< perlpodspec/About Data Paragraphs >>.

=item C<< $parser->any_errata_seen() >> X<any_errata_seen>

Used to check if any errata was seen.

I<Example:>

die "too many errors\n" if $parser->any_errata_seen();

=item C<< $parser->errata_seen() >> X<errata_seen>

Returns a hash reference of all errata seen, both whines and screams. The hash reference's keys are the line number and the value is an array reference of the errors for that line.

I<Example:>

if ( $parser->any_errata_seen() ) {
    $logger->log( $parser->errata_seen() );
}

=item C<< $parser->detected_encoding() >> X<detected_encoding>

Return the encoding corresponding to C<< =encoding >>, but only if the encoding was recognized and handled.

=item C<< $parser->encoding() >> X<encoding>

Return encoding of the document, even if the encoding is not correctly handled.

=item C<< $parser->parse_from_file( $source, $to ) >> X<parse_from_file>
Parses from \texttt{C\$source\textgreater} file to \texttt{C\$to\textless} file. Similar to \texttt{Pod::Parser/parse_from_file}.

\item \texttt{C\$parser\textgreater\textless scream( @error_messages ) \textgreater\textless\textgreater X<scream>}

Log an error that can't be ignored.

\item \texttt{C\$parser\textgreater\textless unaccept_code( @codes ) \textgreater\textless X<unaccept_code>}

Alias for \texttt{C\<unaccept_codes \textgreater\textless}.

\item \texttt{C\$parser\textgreater\textless unaccept_codes( @codes ) \textgreater\textless\textgreater X\textless<unaccept_codes>}

Removes \texttt{C\<@codes \textgreater} as valid codes for the parse.

\item \texttt{C\$parser\textgreater\textless unaccept_directive( @directives ) \textgreater\textless X<unaccept_directive>}

Alias for \texttt{C\<unaccept_directives \textgreater\textless}.

\item \texttt{C\$parser\textgreater\textless unaccept_directives( @directives ) \textgreater\textless\textgreater X\textless<unaccept_directives>}

Removes \texttt{C\<@directives \textgreater} as valid directives for the parse.

\item \texttt{C\$parser\textgreater\textless unaccept_target( @targets ) \textgreater\textless X<unaccept_target>}

Alias for \texttt{C\<unaccept_targets \textgreater\textless}.

\item \texttt{C\$parser\textgreater\textless unaccept_targets( @targets ) \textgreater\textless\textgreater X\textless<unaccept_targets>}

Removes \texttt{C\<@targets \textgreater} as valid targets for the parse.

\item \texttt{C\$parser\textgreater\textless version_report() \textgreater\textless\textgreater X<version_report>}

Returns a string describing the version.

\item \texttt{C\$parser\textgreater\textless whine( @error_messages ) \textgreater\textless\textgreater X<whine>}

Log an error unless \texttt{C\$parser\textgreater\textless no_whining( TRUE ); \textgreater\textless}.

=head1 ENCODING

The Pod::Simple parser expects to read B\textless octets\textgreater. The parser will decode the octets into Perl's internal character string representation using the value of the C\textless=encoding\textgreater declaration in the POD source.

If the POD source does not include an C\textless=encoding\textgreater declaration, the parser will
attempt to guess the encoding (selecting one of UTF-8 or CP 1252) by examining
the first non-ASCII bytes and applying the heuristic described in
L<perlpodspec>.  (If the POD source contains only ASCII bytes, the
encoding is assumed to be ASCII.)

If you set the C<parse_characters> option to a true value the parser will
expect characters rather than octets; will ignore any C<encoding>; and will
make no attempt to decode the input.

=head1 SEE ALSO

L<Pod::Simple::Subclassing>

L<perlpod|perlpod>

L<perlpodspec|perlpodspec>

L<Pod::Escapes|Pod::Escapes>

L<perldoc>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the
pod-people@perl.org mail list. Send an empty email to
pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository,
L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or
to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to
<bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

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This library is free software; you can redistribute it and/or modify it
under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but
without any warranty; without even the implied warranty of
merchantability or fitness for a particular purpose.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>.
But don't bother him, he's retired.

Pod::Simple is maintained by:

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<wheeler@cpan.org>

=back

Documentation has been contributed by:

=over

=item * Gabor Szabo C<szabgab@gmail.com>

=item * Shawn H Corey C<SHCOREY at cpan.org>

=back

=cut

Found in path(s):
* /opt/cola/permits/1185063596_1627671001.20/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-X7wIog47/Pod-Simple-3.35.tar.gz-cosi-expand-archive-DIGwns5S/Pod-Simple-3.35/lib/Pod/Simple.pod

No license file was found, but licenses were detected in source scan.

=head1 Pod::Simple version 3.33

Pod::Simple is a Perl library for parsing text in the Pod ("plain old documentation") markup language that is typically used for writing documentation for Perl and for Perl modules. The Pod format is explained L<perlpod>; the most common formatter is called C<perldoc>.

Pod formatters can use Pod::Simple to parse Pod documents and render them into plain text, HTML, or any number of other formats.

=head2 Installation

To install this module, type the following:

perl Makefile.PL
make
make test
make install

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=item * David E. Wheeler <d wheeler@cpan.org>

=item * Marc Green <marc green@cpan.org>

=back

=cut

Found in path(s):
NAME

Pod::Simple::SimpleTree -- parse Pod into a simple parse tree

SYNOPSIS

% cat ptest.pod

 PIE

I like B<pie>!

% perl -MPod::Simple::SimpleTree -MData::Dumper -e \ 
  "print Dumper(Pod::Simple::SimpleTree->new->parse_file(shift)->root)" \ 
  ptest.pod

$VAR1 = [
  'Document',
  { 'start_line' => 1 },
  [
    'head1',
    { 'start_line' => 1 },
    'PIE'
  ],
  [
    'Para',
    { 'start_line' => 3 },
    'I like ',
    [
      'B',
      { },
      'pie'
    ],
    '!'  
  ];

DESCRIPTION

This class is of interest to people writing a Pod processor/formatter.

This class takes Pod and parses it, returning a parse tree made just
of arrayrefs, and hashrefs, and strings.
This is a subclass of L<Pod::Simple> and inherits all its methods.

This class is inspired by XML::Parser’s “Tree” parsing-style, although
it doesn’t use exactly the same LoL format.

=head1 METHODS

At the end of the parse, call C<< $parser->root >> to get the
tree's top node.

=head1 Tree Contents

Every element node in the parse tree is represented by an arrayref of
the form: C<[
  I<elementname>, \%attributes, I<...subnodes...> ]>.
See the example tree dump in the Synopsis, above.

Every text node in the tree is represented by a simple (non-ref)
string scalar. So you can test C<ref($node)> to see whether you have
an element node or just a text node.

The top node in the tree is C<[
'Document', \%attributes,
I<...subnodes...> ]>

=head1 SEE ALSO

L<Pod::Simple>

L<perllol>

L</The "Tree" subsubsection in XML::Parser|XML::Parser/"Tree">

=head1 SUPPORT

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=cut

Found in path(s):
* /opt/cola/permits/1185063596_1627671001.2/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-X7wIog47/Pod-Simple-3.35.tar.gz-cosi-expand-archive-DlGwus5S/Pod-Simple-3.35/lib/Pod/Simple/SimpleTree.pm

No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::TextContent -- get the text content of Pod

=head1 SYNOPSIS

TODO

perl -MPod::Simple::TextContent -e \n"exit Pod::Simple::TextContent->filter(shift)->any_errata_seen" \nthingy.pod

=head1 DESCRIPTION

This class is that parses Pod and dumps just the text content. It is
mainly meant for use by the Pod::Simple test suite, but you may find
some other use for it.

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Spell>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the
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=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>.
But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheeler@cpan.org>

=over
NAME

Pod::Simple::PullParserTextToken -- text-tokens from Pod::Simple::PullParser

SYNOPSIS

(See L<Pod::Simple::PullParser>)

DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser>, you might get an object of this class.

This is a subclass of L<Pod::Simple::PullParserToken> and inherits all its methods, and adds these methods:

- $token->text

This returns the text that this token holds. For example, parsing CZ<><foo> will return a C start-token, a text-token, and a C end-token. And if you want to get the "foo" out of the text-token, call C<< $token->text >>

- $token->text(1<somestring>)

This changes the string that this token holds. You probably won't need to do this.

- $token->text_r()

This returns a scalar reference to the string that this token holds. This can be useful if you don't want to memory-copy the potentially large text value (well, as large as a paragraph or a verbatim block) as calling $token->text would do.

Or, if you want to alter the value, you can even do things like this:
for ( $token->text_r ) { # Aliases it with $_ !!

    s/ The / the /g; # just for example

    if ( 'A' eq chr(65) ) { # (if in an ASCII world)
        tr\xA0/ /;
        tr\xAD//d;
    }

    ...or however you want to alter the value...
    (Note that starting with Perl v5.8, you can use, e.g.,

        my $nbsp = chr utf8::unicode_to_native(0xA0);
        s/$nbsp/ /g;

        to handle the above regardless if it's an ASCII world or not)
    }

=back

You're unlikely to ever need to construct an object of this class for
yourself, but if you want to, call
C<<
Pod::Simple::PullParserTextToken->new( I<text> )
>>

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

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=item * David E. Wheeler <dwheeler@cpan.org>

=back

=cut

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* /opt/cola/permits/1185063596_1627671001.2/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-X7wlog47/Pod-Simple-3.35.tar.gz-cosi-expand-archive-DIGwns5S/Pod-Simple-3.35/lib/Pod/Simple/PullParserTextToken.pm

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---
abstract: 'framework for parsing Pod'
author:  
  - 'Allison Randal <allison@perl.org>'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.0401, CPAN::Meta::Converter version 2.150005'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Pod-Simple
no_index:
directory:
- t
- inc

recommends:
  Encode: '2.78'
requires:
  Carp: '0'
  Config: '0'
  Cwd: '0'
  File::Basename: '0'
  File::Find: '0'
  File::Spec: '0'
  Pod::Escapes: '1.04'
  Symbol: '0'
  Test: '1.25'
  Test::More: '0'
  Text::Wrap: '98.112902'
  integer: '0'
  overload: '0'
  strict: '0'

resources:
  bugtracker: https://github.com/perl-pod/pod-simple/issues
  homepage: http://search.cpan.org/dist/Pod-Simple/
  license: http://dev.perl.org/licenses/
  repository: git://github.com/perl-pod/pod-simple.git
  version: '3.35'
  x_serialization_backend: 'CPAN::Meta::YAML version 0.012'

Found in path(s):
* /opt/cola/permits/1185063596_1627671001.2/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-X7wIog47/Pod-Simple-3.35.tar.gz-cosi-expand-archive-DIGwms5S/Pod-Simple-3.35/META.yml

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=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Spell>

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Thanks to L<search.cpan.org|http://search.cpan.org/> for permission to use the site for Perl module links.

AUTHOR

Pod::Simple::XHTML was created by Allison Randal <allison@perl.org>.

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

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item * David E. Wheeler C<dwheeler@cpan.org>

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NAME
Pod::Simple::XMLOutStream -- turn Pod into XML

=head1 SYNOPSIS

perl -MPod::Simple::XMLOutStream -e \
"exit Pod::Simple::XMLOutStream->filter(shift)->any_errata_seen" \
thingy.pod

=head1 DESCRIPTION

Pod::Simple::XMLOutStream is a subclass of L<Pod::Simple> that parses Pod and turns it into XML.

Pod::Simple::XMLOutStream inherits methods from L<Pod::Simple>.

=head1 SEE ALSO

L<Pod::Simple::DumpAsXML> is rather like this class; see its documentation for a discussion of the differences.

L<Pod::Simple>, L<Pod::Simple::DumpAsXML>, L<Pod::SAX>

L<Pod::Simple::Subclassing>

The older (and possibly obsolete) libraries L<Pod::XML>, L<Pod::PXML>

=head1 ABOUT EXTENDING POD

TODO: An example or two of =extend, then point to Pod::Simple::Subclassing

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Spell>

=head1 SUPPORT

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* David E. Wheeler <dwheeler@cpan.org>

NAME

Pod::Simple::DumpAsXML -- turn Pod into XML

SYNOPSIS

perl -MPod::Simple::DumpAsXML -e \n"exit Pod::Simple::DumpAsXML->filter(shift)->any_errata_seen" \nthingy.pod
=head1 DESCRIPTION

Pod::Simple::DumpAsXML is a subclass of L<Pod::Simple> that parses Pod and turns it into indented and wrapped XML. This class is of interest to people writing Pod formatters based on Pod::Simple.

Pod::Simple::DumpAsXML inherits methods from L<Pod::Simple>.

=head1 SEE ALSO

L<Pod::Simple::XMLOutStream> is rather like this class.
Pod::Simple::XMLOutStream's output is space-padded in a way that's better for sending to an XML processor (that is, it has no ignorable whitespace). But
Pod::Simple::DumpAsXML's output is much more human-readable, being (more-or-less) one token per line, with line-wrapping.

L<Pod::Simple::DumpAsText> is rather like this class, except that it doesn't dump with XML syntax. Try them and see which one you like best!

L<Pod::Simple>, L<Pod::Simple::DumpAsXML>

The older libraries L<Pod::PXML>, L<Pod::XML>, L<Pod::SAX>

=head1 SUPPORT

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1.1063 libxtables12 1.6.1 2ubuntu2

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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
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
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
slave/kpropd_rpc.c
slave/kproplog.c

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1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

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1.1073 gophercloud 0.20.0

1.1073.1 Available under license :

package RESOURCE

import (  
  "github.com/gophercloud/gophercloud"  
  "github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
  gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method  
// to interpret it as a RESOURCE.
type GetResult struct {
  commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method  
// to interpret it as a RESOURCE.
type CreateResult struct {

commonResult

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
resources, err := ExtractResources(r)
return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
var s struct {
    Links struct {
        Next string `json:"next"
        Previous string `json:"previous"
    } `json:"links"
}
err := r.ExtractInto(&s)
if err != nil {
    return "", err
}
return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
var s struct {
    Resources []Resource `json:"resources"
}
err := (r.(ResourcePage)).ExtractInto(&s)
Contributor Tutorial
====================

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code
========================

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](/github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](/github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests
----------------------
The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* [https://github.com/gophercloud/gophercloud/pull/584](https://github.com/gophercloud/gophercloud/pull/584)
* [https://github.com/gophercloud/gophercloud/pull/586](https://github.com/gophercloud/gophercloud/pull/586)
* [https://github.com/gophercloud/gophercloud/pull/587](https://github.com/gophercloud/gophercloud/pull/587)
* [https://github.com/gophercloud/gophercloud/pull/594](https://github.com/gophercloud/gophercloud/pull/594)

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in
What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're testing with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests
----------------------------------

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement
the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$(write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$(write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$(write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
```
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child
  Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and
proceed to [Step 6](step-06-code-review.md).

Step 6: Code Review

=============

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional
changes to your code.

While you're working on the finishing touches to your code, it is helpful
to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull
Request. As well, take advantage of the automatic testing that is done to
each commit.

### Travis-CI
If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review

---------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used).

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes

-------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the
It's Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```go
package testing

import (
    "fmt"
    "net/http"
    "testing"

    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = ``
{ `
} `

// GetResult provides a Get result.
const GetResult = ``
{ `
} `

// CreateRequest provides the input to a Create request.
const CreateRequest = ``
{ `
} `

// UpdateRequest provides the input to as Update request.
```
const UpdateRequest = `{
}
`

// UpdateResult provides an update result.
const UpdateResult = `{
}
`

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{
}

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{
}

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{
}

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
// HandleCreateResourceSuccessfully creates an HTTP handler at `resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)
        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.WriteHeader(http.StatusNoContent)
    })
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "PATCH")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, UpdateRequest)
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, UpdateResult)
    })
}

package testing

import {
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        count++
        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
        return true, nil
    })
    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)
createOpts := resources.CreateOpts{
    Name: "resource two",
}

actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleUpdateResourceSuccessfully(t)

    updateOpts := resources.UpdateOpts{
        Description: "Staging Resource",
    }

    actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

package RESOURCE

import {
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
}

// ListOptsBuilder allows extensions to add additional parameters to
// the List request

// ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.

// ListOpts struct {
}
// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        }
        url += query
    }
        return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
    })
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    resp, err := client.Get(getURL(client, id), &r.Body, nil)
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        return
    }
    // More code here
r.Err = err
return
}
resp, err := client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
OkCodes: []int{201},
})
_, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
resp, err := client.Delete(deleteURL(client, id), nil)
_, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
b, err := opts.ToResourceUpdateMap()
if err != nil {
    r.Err = err
    return
}
resp, err := client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
OkCodes: []int{200},
})
_, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
return
}

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package RESOURCE

import "github.com/gophercloud/gophercloud"
func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

Step 7: Congratulations!

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 4: Acceptance Testing

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack
environment for testing.

---

Once you've confirmed you are able to test your code, proceed to
[Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull
Request.

*/

Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/

package RESOURCE

Step 2: Create an Issue

========================

Every patch / Pull Request requires a corresponding issue. If you're fixing
a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

-------------

When reporting a bug, please try to provide as much information as you
can.

The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647

Feature Request

-------------

If you've noticed that a feature is missing from Gophercloud, you'll also
need to create an issue before doing any work. This is to start a discussion
about whether or not the feature should be included in Gophercloud. We don't want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call
If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.
Step 3: Code Hunting

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package.

Meaning, we want to change:

```go
```
```go
type Network struct {
  ID     string `json:"id"
  Name   string `json:"name"
  AdminStateUp bool `json:"admin_state_up"
  Status string `json:"status"
  Subnets []string `json:"subnets"
  TenantID string `json:"tenant_id"
  Shared bool `json:"shared"
}
```
```go
```

to look like

```go
```
```go
type Network struct {
  ID     string `json:"id"
  Name   string `json:"name"
  AdminStateUp bool `json:"admin_state_up"
  Status string `json:"status"
  Subnets []string `json:"subnets"
  TenantID string `json:"tenant_id"
  Shared bool `json:"shared"

  AvailabilityZoneHints []string `json:"availability_zone_hints"
}
```
```go
```

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.
One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/).

However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[string]`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips
-----------------

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on.
Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

**Step 1: Read Our Guides**

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

---

1.1074 oauth-sign 0.9.0

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1.1078 libksba8 1.3.5 2

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1.1095 libgssapikrb 1.17 3

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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
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
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
slave/kpropd_rpc.c
slave/kproplog.c

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fields:
  site: string
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** 1.1122 gpg 2.2.4 1ubuntu1.4 **

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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.

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

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

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This option is useful when you wish to copy part of the code of
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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
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You must give prominent notice with each copy of the work that the
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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:

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of
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software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
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The precise terms and conditions for copying, distribution and
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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

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1.1132 basesystem 11-5.el8

1.1132.1 Available under license:
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%global distroname %(source /etc/os-release; echo \${REDHAT_SUPPORT_PRODUCT})

Summary: The skeleton package which defines a simple %{distroname} system
Name: basesystem
Version: 11
Release: 5%{?dist}
License: Public Domain
Group: System Environment/Base
Requires(pre): setup filesystem
BuildArch: noarch

description
Basesystem defines the components of a basic %{distroname} system
(for example, the package installation order to use during bootstrapping).
Basesystem should be in every installation of a system, and it
should never be removed.

prep

build

install

clean

files

defattr(-,root,root,-)

changelog
* Tue May 07 2019 CentOS Sources <bugs@centos.org> - 11-5.el8.centos
  - adjust description
  - adjust summary

* Wed Feb 07 2018 Fedora Release Engineering <releng@fedoraproject.org> - 11-5
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_28_Mass_Rebuild

* Wed Jul 26 2017 Fedora Release Engineering <releng@fedoraproject.org> - 11-4
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_27_Mass_Rebuild

* Fri Feb 10 2017 Fedora Release Engineering <releng@fedoraproject.org> - 11-3
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_26_Mass_Rebuild
* Wed Feb 03 2016 Fedora Release Engineering <releng@fedoraproject.org> - 11-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_24_Mass_Rebuild

* Thu Jul 09 2015 Ondrej Vasik <ovasik@redhat.com> 11-1
  - automatically determine OS name at build time (#1195396)

* Wed Jun 17 2015 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-11
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_23_Mass_Rebuild

* Sat Jun 07 2014 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-10
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_21_Mass_Rebuild

* Sat Aug 03 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-9
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_20_Mass_Rebuild

* Wed Feb 13 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-8
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_20_Mass_Rebuild

* Wed Jul 18 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-7
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild

* Thu Jan 12 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-6
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Thu Jun 23 2011 Ondrej Vasik <ovasik@redhat.com> 10.0-5
  - fix FTBFS typo (#715640), add disttag

* Mon Feb 07 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org>
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild

* Fri Jul 24 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-3
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_12_Mass_Rebuild

* Mon Feb 23 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_11_Mass_Rebuild

* Mon Oct 20 2008 Phil Knirsch <pknirsch@redhat.com> 10.0-1
  - Bump version and rebuild for Fedora 10 (#451289)

* Fri Mar 02 2007 Phil Knirsch <pknirsch@redhat.com> - 8.1-1
  - Cleanup per package review (#225608)

* Wed Jul 12 2006 Jesse Keating <jkeating@redhat.com> - 8.0-5.1.1
  - rebuild

* Fri Dec 09 2005 Jesse Keating <jkeating@redhat.com>
  - rebuilt
* Wed Sep 22 2004 Bill Nottingham <notting@redhat.com>
  - rebuilt

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
  - rebuilt

* Wed Aug 21 2002 Bill Nottingham <notting@redhat.com>
  - bump rev

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
  - automatic rebuild

* Tue Jun 6 2000 Bill Nottingham <notting@redhat.com>
  - rebuild. Wheee.

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
  - auto rebuild in the new build environment (release 4)

* Tue Mar 16 1999 Cristian Gafton <gafton@redhat.com>
  - don't require rpm (breaks dependency chain)

* Tue Mar 16 1999 Erik Troan <ewt@redhat.com>
  - require rpm

* Wed Dec 30 1998 Cristian Gafton <gafton@redhat.com>
  - build for 6.0

* Tue Aug 11 1998 Jeff Johnson <jbj@redhat.com>
  - build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
  - translations modified for de, fr, tr

* Tue Sep 23 1997 Erik Troan <ewt@redhat.com>
  - made a noarch package
1.1133 libpsl5 0.20.2 2

1.1133.1 Available under license:

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: libpsl
Source: https://github.com/rockdaboot/libpsl

Files: *
Copyright: 2014-2016 Tim Ruehsen
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Files: debian/*
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Files: src/psl-make-dafsa src/lookup_string_in_fixed_set.c
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1.1134 toposort 2.0.2

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1.1135 dnf-plugin-subscription-manager
1.27.18-1.el8_3

1.1135.1 Available under license:

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Data model artifacts for Prometheus.

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1.1138 logr 0.2.0

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1.1139 libcrack 2.9.2 5build1
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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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the user installs one, as long as the modified version is
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c) Accompany the work with a written offer, valid for at
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d) If distribution of the work is made by offering access to copy
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e) Verify that the user has already received a copy of these
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

----------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan
=20
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
> =20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> =2Dmike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
the original license (before moving to sourceforge -- aka, 2.7) was not GPL-2 ... it was a modified artistic license ... i didn't notice the license change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which imo is just wrong. it isn't the place of a library to dictate to application writers what license they should be using.

thus LGPL-2.1 enters to fill this void.

DMike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme you all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing you all come up with is fine by me.

-- Nathan

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li... [mailto:cracklib-devel-bounces@li...]
> On Behalf Of Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was
not
GPL-2 ... it was a modified artistic license ... i didn't notice the
license
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib
unless their
applications are also GPL-2 which IMO is just wrong. it isn't the
place of a
library to dictate to application writes what license they should
be using.
thus LGPL-2.1 enters to fill this void.

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small
bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.
Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
> > I am sympathetic. Guys, what do you reckon?
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now ?
> yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> > > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now ?
> yes. go for it. thanks++
Nathan Neulinger is the only one who can actually make said change ...
-mike

----------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
----------

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
  by scanin-ipv5.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
  by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxttr020623
  for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
  by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
  for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
  by rutherford.zen.co.uk with esmtp (Exim 4.50)
  id 1IcOcX-0004Qt-6L
  for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd807100109008k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: cracklib
Upstream-Contact: Nathan Neulinger <nneul@umr.edu>
Source: http://sourceforge.net/projects/cracklib

Files: *
Copyright: 1993 Alec Muffett <alecm@crypto.dircon.co.uk>
  2005-2014 Nathan Neulinger <nneul@umr.edu>
  2008-2014 Jan Dittberner <jan@dittberner.info>
License: LGPL-2.1
Comment:
Starting from version 2.8.15 released on 2009-11-19 cracklib is licensed under the terms of the LGPL 2.1. For a
detailed discussion and history see README-LICENSE.

Files: debian/*
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    Martin Pitt <martin@piware.de>
    Jan Ditthberner <jandd@debian.org>
License: LGPL-2.1

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1.1140 libssl 1.1.1k-r0
1.1140.1 Available under license :

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1.1149 debug 2.6.9
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1.1156 bin-links 1.1.8

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1.1157 coreutils 8.26-3
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This debian package was first created by Michael Stone <mstone@debian.org>, from coreutils 4.5.1.

Changes:
* added Debian GNU/Linux package maintenance system files
* at times, bug fixes awaiting inclusion in the upstream source

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Local-Date: Fri, 06 Jun 2003 13:18:52 -0400
Date: Fri, 6 Jun 2003 10:18:52 -0700
From: Juan Gomez <juang@us.ibm.com>
To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

Stephen,

"There is no restriction on modifications and derived works" on the work I
did for the openldap server as long as this is consistent with the openldap
license. Please forward this email to Kurt so he does the appropriate
changes to the files to reflect this.

Regards, Juan
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MA
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From: Mark Adamson <adamson@andrew.cmu.edu>
To: Stephen Frost <sfrost@debian.org>
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* To: Stephen Frost <sfrost@snowman.net>
* Subject: Re: OpenLDAP Licenseing issues
* From: "Kurt D. Zeilenga" <Kurt@OpenLDAP.org>
* Date: Wed, 28 May 2003 10:55:44 -0700
* Cc: Steve Langasek <vorlon@netexpress.net>, debian-legal@lists.debian.org, openldap-devel@OpenLDAP.org
* In-reply-to: <20030528162613.GB8524@ns.snowman.net>
* Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>
* Old-return-path: <Kurt@OpenLDAP.org>

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. The file `src/libs/snprintf/snprintf.c’, written by Mark Martinec
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. The `grn’ preprocessor, written by Barry Roitblat <barry@rentonww.com>
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The original package can be found at

    src/preproc/grn/gprint.h
    src/preproc/grn/hdb.cpp
    src/preproc/grn/hgraph.cpp
    src/preproc/grn/hpoint.cpp
    src/preproc/grn/main.cpp

. The `gxditview’ output device. It is based on X11’s `xditview’ program
  and thus has the X license.

    src/devices/xditview/DESC.in
    src/devices/xditview/Dvi.c
    src/devices/xditview/Dvi.h
Macro Packages

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. The -mdoc macro set, using the BSD license.

  tmac/doc.tmac
  tmac/doc-old.tmac
  tmac/doc-common
  tmac/doc-ditroff
  tmac/doc-nroff
  tmac/doc-syms
  tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

  tmac/e.tmac
Hyphenation Patterns

---------------------

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of the TeX system written by Donald E. Knuth; the master file can be found at

ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

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. The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at

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Version 3.1, 31 March 2009

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@enumerate 0
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6b.

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@end enumerate

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@end smallexample

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notice like this when it starts in an interactive mode:

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under certain conditions; type var{show c} for details.
@end smallexample

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* github.com/BurntSushi/toml - https://github.com/BurntSushi/toml

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match.go, match_test.go:

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* golang.org/x/tools/go/analysis - https://github.com/golang/tools

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL string `json:"url,omitempty"
}
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import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "serialuri:2",
                Value: "Remote virtual Serial Port Concentrator",
            },
        },
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "dvs",
                Value: "vSphere Distributed Switch",
            },
        },
    }
}

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{}
    m.Self = ref
    m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }

    return m
}
func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{
    }
    
    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }
    
    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:    req.Labels,
    })
    
    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{
    }
    
    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...]...) // This line seems incorrect.
            return body
        }
    }
    return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{
    }
    
    for i := range m.Licenses {
        license := &m.Licenses[i]
        if req.LicenseKey != license.LicenseKey {
            continue
        }
        
        body.Res = new(types.UpdateLicenseLabelResponse)
for j := range license.Labels {
    label := &license.Labels[j]

    if label.Key == req.LabelKey {
        if req.LabelValue == "" {
            license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
        } else {
            label.Value = req.LabelValue
        }
        return body
    }
}

license.Labels = append(license.Labels, types.KeyValue{
    Key:   req.LabelKey,
    Value: req.LabelValue,
})

return body

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    return body
}
body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
    EntityId:  req.EntityId,
    AssignedLicense: EvalLicense,
}

return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

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import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin     string
    Option     string
    Severity   string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version    string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(` It is replaced by "%v"`, n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}

const (
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated = "deprecated" // deprecated, but still completely functional
    ignored = "ignored" // if included in the corefile, it will be ignored by CoreDNS
    removed = "removed" // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
    newdefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
unsupported = "unsupported" // the plugin/option is not supported by the migration tool

// The following statuses are used for selecting/filtering notifications
all = "all" // show all statuses
)

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# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

### Install Tar

Copy requires that `tar` be installed in the container image.

### Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `<path>`
- Remote file format is `:<pod-name>://<path>`

```
```
```
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```
```
```

## Remote to Local

**Provide feedback at the [survey](https://www.surveymonkey.com/r/JH35X82)**
Copy a remote file from a Pod to a local file.

- Local file format is `<path>`
- Remote file format is `<pod-name>::<path>`

{% sample lang="yaml" %}
```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```
{% endmethod %}

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

{% sample lang="yaml" %}
```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```
{% endmethod %}

## Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>`,

- `<pod-namespace>/<pod-name>:

{% sample lang="yaml" %}
```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```
{% endmethod %}

runc

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tomb - support for clean goroutine termination in Go.

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1.1183 python3-syspurpose 1.27.18-1.el8_3
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1.1193 githubcomgoopenapispec 0.20.3

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package spec

import (  
"encoding/json"  
"testing"
 )

"github.com/stretchr/testify/assert"

var license = License{  
LicenseProps: LicenseProps{Name: "the name", URL: "the url"},}
const licenseJSON = `{ "name": "the name", "url": "the url", "x-license": "custom term" }`

func TestIntegrationLicense(t *testing.T) {
    const licenseYAML = "name: the name
url: the url"
    b, err := json.MarshalIndent(license, "", "\t")
    if assert.NoError(t, err) {
        assert.Equal(t, licenseJSON, string(b))
    }

    actual := License{}
    err = json.Unmarshal([]byte(licenseJSON), &actual)
    if assert.NoError(t, err) {
        assert.EqualValues(t, license, actual)
    }
}

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    "github.com/go-openapi/swag"
)

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

// UnmarshalJSON hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

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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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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

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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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1.1198 sg3-utils 1.42 2ubuntu1.18.04.2

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10th April 2012
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1.1199 read-package-json 2.1.1

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{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s(\"%s\", %d, %#x)", NULL, NULL
},
{ TARGET_FREEBSD_NR___acl_delete_fd, "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
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{ TARGET_FREEBSD_NR___acl_set_link, "__acl_set_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___semctl, "__semctl", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(d,"%s", %#x, %d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_freebsd6_mmap, "freebsd6_mmap", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
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{ TARGET_FREEBSD_NR_issetuid, "issetuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s("%s", "%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", "%s", NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(\%#x)" },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(\%d,\%d,\%d)" },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setopt, "sockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(\%p,\%p)" },
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{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(\%d,\%d,\%d)" },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_start, "start", "%s(\"%s\",\%p)" },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s(\"%s\",\%p)" },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s(\"%s\",\"%s\")" },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_th_create, "thr_create", "%s(\%#x, \%#x, \%d)" },
{ TARGET_FREEBSD_NR_th_exit, "thr_exit", "%s(\%#x)" },
{ TARGET_FREEBSD_NR_th_kill, "thr_kill", "%s(\%d, \%#x)" },
{ TARGET_FREEBSD_NR_th_kill2, "thr_kill2", "%s(\%d, \%d, \%d)" },
{ TARGET_FREEBSD_NR_th_new, "thr_new", "%s(\%#x, \%d)" },
{ TARGET_FREEBSD_NR_th_self, "thr_self", "%s(\%#x)" },
{ TARGET_FREEBSD_NR_th_self, "thr_self", "%s(\%#x)" },
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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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1.1202 libpam-modules 1.1.8
3.6ubuntu2.18.04.3

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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam_motd/pam_motd.c

--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
     close(fd);
 }

+int display_legal(pam_handle_t *pamh)
+{
+    int retval = PAM_IGNORE, rc;
+    char *user = NULL;
+    char *dir = NULL;
+    char *flag = NULL;
+    struct passwd *pwd = NULL;
+    struct stat s;
+    int f;
+    /* Get the user name to determine if we need to print the disclaimer */
+    rc = pam_get_item(pamh, PAM_USER, &user);
+    }
if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
{
    PAM_MODUTIL_DEF_PRIVS(privs);

    /* Get the password entry */
pwd = pam_modutil_getpwnam (pamh, user);
    if (pwd != NULL)
    {
        if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
            pam_syslog(pamh, LOG_ERR,
                    "Unable to change UID temporarily\n",
                    pwd->pw_uid);
            retval = PAM_SESSION_ERR;
            goto finished;
        }

        if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
            goto finished;
        if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
            goto finished;

        if (stat(flag, &s) != 0)
        {
            display_file(pamh, "/etc/legal");
            mkdir(dir, 0700);
            f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
                    S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
            if (f>=0) close(f);
        }
    }

    if (pam_modutil_regain_priv(pamh, &privs)) {
        pam_syslog(pamh, LOG_ERR,
                "Unable to change UID back to %d", privs.old_uid);
        retval = PAM_SESSION_ERR;
    }

    _pam_drop(flag);
    _pam_drop(dir);
}

return retval;

PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
int argc, const char **argv)
@@ -116,6 +171,9 @@
/* Display the updated motd */
display_file(pamh, motd_path);

+ /* Display the legal disclaimer only if necessary */
+ retval = display_legal(pamh);
+
+ return retval;

}
with the distribution.

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1.1204 agentkeepalive 4.1.4
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1.1205 mongo-driver 1.5.1
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BSON library for Go

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
  Name string `json:"name,omitempty"
  URL  string `json:"url,omitempty"
}

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin     string
    Option     string
    Severity   string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version    string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf("Plugin "Plugin "Plugin ", n.Plugin)
    } else {
        s += fmt.Sprintf("Option "Option "Option ", n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {

Open Source Used In Intersight Kubernetes Service 1.0.15 12106
s += "is added as a default in " + n.Version + "." 
} else {
    s += "is " + n.Severity + " in " + n.Version + "." 
}
if n.ReplacedBy != "" {
    s += fmt.Sprintf(` It is replaced by "%v",`, n.ReplacedBy)
}
if n.Additional != "" {
    s += " " + n.Additional 
}
return s 

const ( 
    // The following statuses are used to indicate the state of support/deprecation in a given release. 
    deprecated = "deprecated" // deprecated, but still completely functional 
    ignored = "ignored" // if included in the corefile, it will be ignored by CoreDNS 
    removed = "removed" // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile 
    newdefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile. 
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool 

    // The following statuses are used for selecting/filtering notifications 
    all = "all" // show all statuses 
) 

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## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```
## Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>/.`

- `<pod-namespace>/<pod-name>:<path>`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```
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import (  
  "github.com/vmware/govmomi/object"  
  "github.com/vmware/govmomi/vim25/methods"  
  "github.com/vmware/govmomi/vim25/mo"  
  "github.com/vmware/govmomi/vim25/soap"  
  "github.com/vmware/govmomi/vim25/types"  
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{  
  LicenseKey: "00000-00000-00000-00000-00000",  
  EditionKey: "eval",  
  Name:    "Evaluation Mode",  
  Properties: []types.KeyAnyValue{  
    {  
      Key: "feature",  
      Value: types.KeyValue{  
        Key:   "serialuri:2",  
        Value: "Remote virtual Serial Port Concentrator",  
      },  
    },  
    {  
      Key: "feature",  
      Value: types.KeyValue{  
        Key:   "dvs",  
        Value: "vSphere Distributed Switch",  
      },  
    },  
  },  
}

type LicenseManager struct {  
  mo.LicenseManager  
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {  
  m := &LicenseManager{}  
  m.Self = ref  
  m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

  if Map.IsVXP() {  
    am := Map.Put(&LicenseAssignmentManager{}).Reference()  
    m.LicenseAssignmentManager = &am  
  }

  return m  
}
func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{},
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels: req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
            return body
        }
    }

    return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{}{

    for i := range m.Licenses {
        license := &m.Licenses[i]

        if req.LicenseKey != license.LicenseKey {
            continue
        }

        body.Res = new(types.UpdateLicenseLabelResponse)
for j := range license.Labels {
    label := &license.Labels[j]

    if label.Key == req.LabelKey {
        if req.LabelValue == "" {
            license.Labels = append(license.Labels[:i], license.Labels[i+1:...])
        } else {
            label.Value = req.LabelValue
        }
        return body
    }
}

license.Labels = append(license.Labels, types.KeyValue{
    Key:   req.LabelKey,
    Value: req.LabelValue,
})

return body
}

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        id := types.ManagedObjectReference{
            Type: "HostSystem",
            Value: req.EntityId,
        }

        if Map.Get(id) == nil {
            return body
        }
    }

    return body
}
body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
    
    EntityId: req.EntityId,
    AssignedLicense: EvalLicense,
    
}

return body

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

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tomb - support for clean goroutine termination in Go.

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procsfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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= vendor/github.com/moby/sys/mountinfo/LICENSE 3b83ef96387f14655fc854ddc3c6bd57

1.1215 libunistring 0.9.9-3.el8

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1.1217 cidr-regex 2.0.10

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1.1218 libxmlsec1-openssl 1.2.25 1build1

1.1218.1 Available under license:

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1.1219 strict-uri-encode 2.0.0

1.1219.1 Available under license:

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1.1220 write-file-atomic 2.4.3

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1.1221 code-point-at 1.1.0

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1.1222 grub efi 2.04 1ubuntu44.1.2

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1.1223 linux-headers-generic 4.15.0.156.145
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1.1224 pkgconf-pkg-config 1.4.2-1.el8

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1.1231 libncursesw 6.1 1ubuntu1.18.04

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1.1232 minizlib 2.1.2

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1.1235 adduser 3.115

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- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
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- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
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- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
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DES core in libhcrypto

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D3DES (V5.09)

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1.1258 libss 1.43.4-2

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

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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#
# 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)

This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Gadi Oxman, August 1995

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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete—if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Pete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Miller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
SATO, Yuichi
Sánchez, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John
The following people have worked to translate sudo into other languages:

- Blittermann, Mario
- Bogusz, Jakub
- Casagrande, Milo
- Castro, Felipe
- Cho, Seong-ho
- Chornoivan, Yuri
- Diguez, Francisco
- Ferreira, Rafael
- Garca-Fontes, Walter
- Gezer, Volkan
- Hamasaki, Takeshi
- Hamming, Peter
- Hansen, Joe
- Hantrais, Frédric
- Hein, Jochen
- Hufthammer, Karl Ove
- Jerovek, Damir
- Karvonen, Jorma
- Kazik, Duan
- Kelemen, Gbor
- Koir, Klemen
- Kozlov, Yuri
- Kramer, Jakob
- Krznar, Tomislav
- Marchal, Frédéric
- Margevičius, Algimantas
- Maryanov, Pavel
- Nikoli, Miroslav
- Nylander, Daniel
- Psa, Petr
- Qun, Trn Ngc
- Regueiro, Leandro
- Sarer, zgr
- Sendn, Abel
- Sikrom, ka
- Spingos, Dimitris
- Taniguchi, Yasuaki
- Tomat, Fábio
- Uranga, Mikel Olasagasti
- Vorotnikov, Artem
- Wang, Wylmer
1.1261 libidn 1.33 2.1ubuntu1.2

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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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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source
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1.1266 nvidia-container-runtime-hook 1.4.0 1

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FROM debian:buster-slim

RUN apt-get update & & apt-get install -y --no-install-recommends \
    ruby \
    ruby-dev \
    bundler \
    cmake \
    pkg-config \

git \
build-essential \
libssl-dev

RUN gem install licensee

CMD ["/bin/bash"]

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Upstream-Name: nvidia-container-runtime
Source: https://github.com/NVIDIA/nvidia-container-runtime

Files: *
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1.1268 base-files 10.3+deb10u11
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 supposedly

### An HTTP(s) proxy `http.Agent` implementation for HTTP
This module provides an `http.Agent` implementation that connects to a specified HTTP or HTTPS proxy server, and can be used with the built-in `http` module.

__Note:__ For HTTP proxy usage with the `https` module, check out `node-https-proxy-agent`.

Installation
-------------
Install with `npm`:
```
$ npm install http-proxy-agent
```

Example
-------
```
var url = require('url');
var http = require('http');
var HttpProxyAgent = require('http-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// HTTP endpoint for the proxy to connect to
console.log('attempting to GET %j', endpoint);
var opts = url.parse(endpoint);

// create an instance of the `HttpProxyAgent` class with the proxy server information
var agent = new HttpProxyAgent(proxy);
opts.agent = agent;

http.get(opts, function (res) {
    console.log("response" event!", res.headers);
    res.pipe(process.stdout);
});
```
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1.1302

github.com/prometheus/common/sigv4 0.1.0

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1.1303 require-directory 2.1.1

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1.1304 dbus-daemon 1.12.8-12.el8_3

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1.1316 xdg-basedir 3.0.0

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  * 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.
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  * Added atomicops for Solaris

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This file contains a list of people who have contributed code and effort to the memcached project. If you don't see your name mentioned send email to the memcached mailing list so you can be immortalized.

Also see the ChangeLog for even more people who have helped over the years by submitting fixes, patches and reporting bugs.

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MySQL 5.7.28 (and later)

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Google SMP patch

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Version 3.1, 31 March 2009

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md5 (Message-Digest Algorithm 5)

This code implements the MD5 message-digest algorithm. The algorithm is due to Ron Rivest. This code was written by Colin Plumb in 1993, no copyright is claimed. This code is in the public domain; do with it what you wish.

Equivalent code is available from RSA Data Security, Inc. This code has been tested against that, and is equivalent, except that you don't need to include two pages of legalese with every copy.

The code has been modified by Mikael Ronstroem to handle calculating a hash value of a key that is always a multiple of 4 bytes long. Word 0 of the calculated 4-word hash value is returned as the hash value.

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1.1327 bridgeutils 1.5 15ubuntu1

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS
back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.
Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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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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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
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.

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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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 a program 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.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.
Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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

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

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

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

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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
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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
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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
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this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

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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.

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

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

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

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

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

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

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

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

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

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metrics from the pseudo-filesystem proc.

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1.1339 libbz 1.0.6-8.1

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1.1340 openjdk-11-jre-headless 11.0.9+11-1~deb10u1

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1.1348 curl 7.58.0 2ubuntu3.14
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I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html) licensed code is not allowed to be linked with code licensed under the [Original BSD license](https://spdx.org/licenses/BSD-4-Clause.html) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an
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## libcurl

Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is very liberal.

## OpenSSL

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL’s licensing is a problem for you, consider using another TLS library.

## GnuTLS

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## libressl

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## c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

## zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

## MIT Kerberos

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

## Heimdal

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

## GNU GSS

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## OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses
OpenLDAP as a shared library only, I have not heard of anyone that ships
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## libssh2

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1.1349 github.com/simonpasquier/klog-gokit
0.3.0

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1.1350 debian-archive-keyring

2019.1+deb10u1

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This package was originally put together by Michael Vogt
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1.1351 liblzma 5.2.2 1.3

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EXTRA_DIST += rangecoder/price_tablegen.c

liblzma_la_SOURCES += rangecoder/range_common.h

if COND_ENCODER_LZMA1
    liblzma_la_SOURCES += \ rangecoder/range_encoder.h \ rangecoder/price.h \ rangecoder/price_table.c
endif

if COND_DECODER_LZMA1
    liblzma_la_SOURCES += rangecoder/range_decoder.h
endif

Found in path(s):
* /opt/cola/permits/1130843244_1612823881.19/0/liblzma-5-2-2-zip/liblzma/rangecoder/Makefile.inc

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```
EXTRA_DIST += lzma/fastpos_tablegen.c

liblzma_la_SOURCES += lzma/lzma_common.h

if COND_ENCODER_LZMA1
    liblzma_la_SOURCES += \
        lzma/fastpos.h \ 
        lzma/lzma_encoder.h \ 
        lzma/lzma_encoder.c \ 
        lzma/lzma_encoder_presets.c \ 
        lzma/lzma_encoder_private.h \ 
        lzma/lzma_encoder_optimum_fast.c \ 
        lzma/lzma_encoder_optimum_normal.c

    if !COND_SMALL
        liblzma_la_SOURCES += lzma/fastpos_table.c
    endif
endif

if COND_DECODER_LZMA1
    liblzma_la_SOURCES += \
        lzma/lzma_decoder.c \ 
        lzma/lzma_decoder.h
endif

if COND_ENCODER_LZMA2
    liblzma_la_SOURCES += \
        lzma/lzma2_encoder.c \ 
        lzma/lzma2_encoder.h
endif

if COND_DECODER_LZMA2
    liblzma_la_SOURCES += \
        lzma/lzma2_decoder.c \ 
        lzma/lzma2_decoder.h
endif
```

Found in path(s):
- /opt/cola/permits/1130843244_1612823881.19/0/liblzma-5-2-2-zip/liblzma/lzma/Makefile.inc
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common/common.c \
common/common.h \
common/memcmplen.h \
common/block_util.c \
common/easy_preset.c \
common/easy_preset.h \
common/filter_common.c \
common/filter_common.h \
common/hardware_physmem.c \
common/index.c \
common/index.h \
common/stream_flags_common.c \
common/stream_flags_common.h \
common/stream_flags_common.h
common/vli_size.c

if COND_MAIN_ENCODER
liblzma_la_SOURCES += \
common/aline_encoder.c \
common/block_buffer_encoder.c \ common/block_buffer_encoder.h \ common/block_encoder.c \ common/block_encoder.h \ common/block_header_encoder.c \ common/easy_buffer_encoder.c \ common/easy_encoder.c \ common/easy_encoder_memusage.c \ common/filter_buffer_encoder.c \ common/filter_encoder.c \ common/filter_encoder.h \ common/filter_flags_encoder.c \ common/index_encoder.c \ common/index_encoder.h \ common/stream_buffer_encoder.c \ common/stream_encoder.c \ common/stream_flags_encoder.c \ common/vli_encoder.c
endif
endif

if COND_THREADS
liblzma_la_SOURCES += \
common/hardware_cputhreads.c \ common/outqueue.c \ common/outqueue.h \ common/stream_encoder_mt.c
endif

if COND_MAIN_DECODER
liblzma_la_SOURCES += \
common/alone_decoder.c \ common/alone_decoder.h \ common/auto_decoder.c \ common/block_buffer_decoder.c \ common/block_decoder.c \ common/block_decoder.h \ common/block_header_decoder.c \ common/easy_decoder_memusage.c \ common/filter_buffer_decoder.c \ common/filter_decoder.c \ common/filter_decoder.h \ common/filter_flags_decoder.c \ common/index_decoder.c

common/index_hash.c \
common/stream_buffer_decoder.c \
common/stream_decoder.c \
common/stream_decoder.h \
common/stream_flags_decoder.c \
common/vli_decoder.c 
endif

Found in path(s):
* /opt/cola/permits/1130843244_1612823881.19/0/liblzma-5-2-2-zip/liblzma/common/Makefile.inc
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if COND_ENCODER_LZ
liblzma_la_SOURCES += \
lz/lz_encoder.c \nlz/lz_encoder.h \nlz/lz_encoder_hash.h \nlz/lz_encoder_hash_table.h \nlz/lz_encoder_mf.c
endif

if COND_DECODER_LZ
liblzma_la_SOURCES += \nlz/lz_decoder.c \nlz/lz_decoder.h
endif

Found in path(s):
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prefix=@prefix@
exec_prefix=@exec_prefix@
libdir=@libdir@
includedir=@includedir@

Name: liblzma
Description: General purpose data compression library
URL: @PACKAGE_URL@
Version: @PACKAGE_VERSION@
Cflags: -I${includedir}
Libs: -L${libdir} -llzma
Libs.private: @PTHREAD_CFLAGS@ @LIBS@

Found in path(s):
* /opt/cola/permits/1130843244_1612823881.19/0/liblzma-5-2-2-zip/liblzma/liblzma.pc.in
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liblzma_la_SOURCES += \ 
delta/delta_common.c \ 
delta/delta_common.h \ 
delta/delta_private.h

if COND_ENCODER_DELTA
liblzma_la_SOURCES += \ 
delta/delta_encoder.c \ 
delta/delta_encoder.h
endif

if COND_DECODER_DELTA
liblzma_la_SOURCES += \ 
delta/delta_decoder.c \ 
delta/delta_decoder.h
endif

Found in path(s):
* /opt/cola/permits/1130843244_1612823881.19/0/liblzma-5-2-2-zip/liblzma/delta/Makefile.inc
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/*
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 *
 * See ../lzma.h for information about liblzma as a whole.
 */

Found in path(s):
* /opt/cola/permits/1130843244_1612823881.19/0/liblzma-5-2-2-zip/liblzma/api/lzma/index.h
* /opt/cola/permits/1130843244_1612823881.19/0/liblzma-5-2-2-zip/liblzma/api/lzma/vli.h
* /opt/cola/permits/1130843244_1612823881.19/0/liblzma-5-2-2-zip/liblzma/api/lzma/index_hash.h
* /opt/cola/permits/1130843244_1612823881.19/0/liblzma-5-2-2-zip/liblzma/api/lzma/filter.h
* /opt/cola/permits/1130843244_1612823881.19/0/liblzma-5-2-2-zip/liblzma/api/lzma/check.h
* /opt/cola/permits/1130843244_1612823881.19/0/liblzma-5-2-2-zip/liblzma/api/lzma/hardware.h
* /opt/cola/permits/1130843244_1612823881.19/0/liblzma-5-2-2-zip/liblzma/api/lzma/container.h
* /opt/cola/permits/1130843244_1612823881.19/0/liblzma-5-2-2-zip/liblzma/api/lzma/version.h
* /opt/cola/permits/1130843244_1612823881.19/0/liblzma-5-2-2-zip/liblzma/api/lzma/stream_flags.h
* /opt/cola/permits/1130843244_1612823881.19/0/liblzma-5-2-2-zip/liblzma/api/lzma/base.h
* /opt/cola/permits/1130843244_1612823881.19/0/liblzma-5-2-2-zip/liblzma/api/lzma/lzma12.h
* /opt/cola/permits/1130843244_1612823881.19/0/liblzma-5-2-2-zip/liblzma/api/lzma/block.h
* /opt/cola/permits/1130843244_1612823881.19/0/liblzma-5-2-2-zip/liblzma/api/lzma/bcj.h
* /opt/cola/permits/1130843244_1612823881.19/0/liblzma-5-2-2-zip/liblzma/api/lzma/delta.h

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liblzma_la_SOURCES += \
  simple/simple_coder.c \
  simple/simple_coder.h \
  simple/simple_private.h

if COND_ENCODER_SIMPLE
liblzma_la_SOURCES += \
  simple/simple_encoder.c \
  simple/simple_encoder.h
endif

if COND_DECODER_SIMPLE
liblzma_la_SOURCES += \

simple/simple_decoder.c
simple/simple_decoder.h
endif

if COND_FILTER_X86
liblzma_la_SOURCES += simple/x86.c
endif

if COND_FILTER_POWERPC
liblzma_la_SOURCES += simple/powerpc.c
endif

if COND_FILTER_IA64
liblzma_la_SOURCES += simple/ia64.c
endif

if COND_FILTER_ARM
liblzma_la_SOURCES += simple/arm.c
endif

if COND_FILTER_ARMTHUMB
liblzma_la_SOURCES += simple/armthumb.c
endif

if COND_FILTER_SPARC
liblzma_la_SOURCES += simple/sparc.c
endif

Found in path(s):
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EXTRA_DIST += \
check/crc32_tablegen.c \
check/crc64_tablegen.c \

liblzma_la_SOURCES += \
check/check.c \ncheck/check.h \ncheck/crc_macros.h
if COND_CHECK_CRC32
if COND_SMALL
    liblzma_la_SOURCES += check/crc32_small.c
else
    liblzma_la_SOURCES += \n        check/crc32_table.c \n        check/crc32_table_le.h \n        check/crc32_table_be.h
if COND_ASM_X86
    liblzma_la_SOURCES += check/crc32_x86.S
else
    liblzma_la_SOURCES += check/crc32_fast.c
endif
endif
endif

if COND_CHECK_CRC64
if COND_SMALL
    liblzma_la_SOURCES += check/crc64_small.c
else
    liblzma_la_SOURCES += \n        check/crc64_table.c \n        check/crc64_table_le.h \n        check/crc64_table_be.h
if COND_ASM_X86
    liblzma_la_SOURCES += check/crc64_x86.S
else
    liblzma_la_SOURCES += check/crc64_fast.c
endif
endif
endif

if COND_CHECK_SHA256
if COND_INTERNAL_SHA256
    liblzma_la_SOURCES += check/sha256.c
endif
endif

def

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/**
 * \file api/lzma.h
 * \brief The public API of liblzma data compression library
 *
 * liblzma is a public domain general-purpose data compression library with
 * a zlib-like API. The native file format is .xz, but also the old .lzma

* format and raw (no headers) streams are supported. Multiple compression
* algorithms (filters) are supported. Currently LZMA2 is the primary filter.
*
* liblzma is part of XZ Utils <http://tukaani.org/xz/>. XZ Utils includes
* a gzip-like command line tool named xz and some other tools. XZ Utils
* is developed and maintained by Lasse Collin.
*
* Major parts of liblzma are based on Igor Pavlov's public domain LZMA SDK
* <http://7-zip.org/sdk.html>.
*
* The SHA-256 implementation is based on the public domain code found from
* 7-Zip <http://7-zip.org/>, which has a modified version of the public
* domain SHA-256 code found from Crypto++ <http://www.cryptopp.com/>.
* The SHA-256 code in Crypto++ was written by Kevin Springle and Wei Dai.
*/
/*
* Author: Lasse Collin
*
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*/

Found in path(s):
* /opt/cola/permits/1130843244_1612823881.19/0/liblzma-5-2-2-zip/liblzma/api/lzma.h

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1.1353 libtasn 4.13 3

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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 (now Zope Corporation; see http://www.zope.com/). 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 is a sponsoring member of the PSF.

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Mersenne Twister
----------------

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

    A C-program for MT19937, with initialization improved 2002/1/26.
    Coded by Takuji Nishimura and Makoto Matsumoto.

    Before using, initialize the state by using init_genrand(seed)
    or init_by_array(init_key, key_length).

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
  between ascii and binary. This results in a 1000-fold speedup. The C
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- Arguments more compliant with Python standard

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--------------------------

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test_epoll
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Select kqueue
-------------

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SipHash24
--------

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
Samuel Neves (supercop/crypto_auth/siphash24/little)
strtod and dtoa

--------------------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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------

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zlib
----

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cfuhash
-------

The implementation of the hash table used by the :mod:`tracemalloc` is based on the cfuhash project:

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libmpdec
--------

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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
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#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)
dns.c - Recursive, Reentrant DNS Resolver.

------------------------------------------------------------------------
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1.1382 networkd-dispatcher 1.7 0ubuntu3.3

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Protocol Buffers for Go with Gadgets

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Go support for Protocol Buffers - Google's data interchange format

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Go support for Protocol Buffers - Google's data interchange format

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package goautoneg
import "bitbucket.org/ww/goautoneg"

HTTP Content-Type Autonegotiation.

The functions in this package implement the behaviour specified in http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header
and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list
of clauses

TYPES

type Accept struct {
    Type, SubType string
    Q            float32
    Params       map[string]string
}
Structure to represent a clause in an HTTP Accept Header

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Protocol Buffers for Go with Gadgets

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.. comments from Autoconf 2.52g:

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dos/config.h was generated with autoheader, which tells Autoconf to
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 Greeks and Windows

### Constant-time SSSE3 AES core implementation.
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##
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1.1396 pb 1.0.29

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1.1397 glib 2.56.4-8.el8

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1.1398 python3-policycoreutils 2.9-9.el8
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1.1400 openssl 1.1.1g-15.el8_3

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1.1402 e2fsprogs 1.43.4-2

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===================================================================
--- tdbsa/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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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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# 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)

This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Theodore Ts'o
23-June-2007

---------------------------------------------------------------

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

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

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Gadi Oxman, August 1995

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// Ref: http://www.khronos.org/registry/typedarray/specs/latest/
// Date: 2011-02-01
//
// Variations:
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# spdx-license-ids


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## Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm):

```javascript
... npm install spdx-license-ids ...
```

### Node.js API

#### require('spdx-license-ids')

Type: `string[]`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]
```

```javascript
ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=> true
ids.includes('GPL-3.0'); //=> false
```

#### require('spdx-license-ids/deprecated')

Type: `string[]`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]
```

```javascript
deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false
```
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wcwidth.js: JavaScript Porting of Markus Kuhn's wcwidth() Implementation
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validate-npm-package-license
============================
Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```
SPDX license identifiers are valid license strings:

```javascript
var assert = require('assert');
var validSPDXExpression = {
  validForNewPackages: true,
  validForOldPackages: true,
  spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```

The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
  valid('Apache 2.0'),
  {
    validForOldPackages: false,
    validForNewPackages: false,
    warnings: [
      'license should be ' +
      'a valid SPDX license expression (without "LicenseRef"), ' +
      '"UNLICENSED", or ' +
      '"SEE LICENSE IN <filename>"',
      'license is similar to the valid expression "Apache-2.0"'
    ]
  }
);
```

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
  valid('(GPL-3.0-only OR BSD-2-Clause)'),
  validSPDXExpression
);
```

... except if they contain `LicenseRef`:
```javascript
var warningAboutLicenseRef = {
validForOldPackages: false,
validForNewPackages: false,
spdx: true,
warnings: [
'label should be ’ +
'a valid SPDX license expression (without "LicenseRef"), ’ +
'”UNLICENSED”, or ’ +
'”SEE LICENSE IN <filename>”',
]
};

assert.deepEqual(
valid('LicenseRef-Made-Up'),
warningAboutLicenseRef
);

assert.deepEqual(
valid('(MIT OR LicenseRef-Made-Up)'),
warningAboutLicenseRef
);
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
assert.deepEqual(
valid('SEE LICENSE IN LICENSE.txt'),
{
validForOldPackages: true,
validForNewPackages: true,
inFile: 'LICENSE.txt'
}
);

assert.deepEqual(
valid('SEE LICENSE IN license.md'),
{
validForOldPackages: true,
validForNewPackages: true,
inFile: 'license.md'
}
);
```

---

Open Source Used In Intersight Kubernetes Service 1.0.15 16625
If there aren't any licensing terms, use 'UNLICENSED':

```javascript
```javascript
var unlicensed = {
  validForNewPackages: true,
  validForOldPackages: true,
  unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```
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1.1410 libcap-ng 0.7.7-3+b1

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1.1415 kernel-headers 4.18.0-240.22.1.el8_3

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1.1427 sbsigntool 0.9.2 2ubuntu1~18.04.1

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vis.c in libbroken

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

@verbatim
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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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 Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

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

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

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Gocheck - A rich testing framework for Go

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1.1442 npm-cache-filename 1.0.2

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1.1443 google-golang-org-grpc 1.26.0

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1.1444 iconv-lite 0.6.3

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1.1445 python3-decorator 4.2.1-2.el8

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1.1446 lodash-root 3.0.1
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1.1447 github.com/codesenberg/concurrent

0.0.0-20180531114123-64560cfcf964

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1.1448 nettle 3.4.1-2.el8
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---

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1.1463 webidl-conversions 3.0.1

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1.1464 python3-lib2to3 3.6.9 1~18.04

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It was downloaded from http://python.org/, built by extracting the Tk and gdbm extensions from the upstream tarballs.

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Python License

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.

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pkgname=perl-software-license
(pkgreal=Software-License
(author=LEONT
(a=${author%%"${author#??}"
(au=${author%%"${author#?}"
(pkgver=0.103014
(pkgrel=0
pkgdesc="Perl module for generating prefilled license text"
(url="https://metacpan.org/pod/Software::License"
(arch="noarch"
(license="Artistic-1.0-Perl"
(depends="perl perl-data-section perl-text-template perl-try-tiny"
(makedepends="perl-dev"
(subpackages="$pkgname-doc"
(source="https://cpan.metacpan.org/authors/id/${au}/${author}/${pkgreal}-${pkgver}.tar.gz"
(builddir="$srcdir/${pkgreal}-${pkgver}"

build() {
PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
make
}

check() {
make test
}

package() {
make DESTDIR="$pkgdir" install
find "$pkgdir" !(-name perllocal.pod -o -name .packlist) -delete
}

sha512sums="8012f9d3e8671bdcba5b52f6790f6cd2f6a0510883bb40115c222c8c685a6d6697ba33b3f9d8d853841cd22ee080e991c9038b6ba7b1057f475b3b63457069d Software-License-0.103014.tar.gz"

# Maintainer: Adelie Platform Group <adelie-devel@lists.adelielinux.org>
pkgname=bsd-compat-headers
(pkgver=0.7.1
(pkgrel=1
pkgdesc="Compatibility files for building BSD software"
(url=""
arch="noarch"
option="!check"    # Just header files.
license="BSD-2-Clause AND BSD-3-Clause"
derpends=""
makedepends=""
subpackages=""
source="sys-cdefs.h
sys-queue.h
sys-tree.h"

package() {
    mkdir -p "$pkgdir"
case "$CLIBC" in
        musl)
            install -D "$srcdir"/sys-cdefs.h "$pkgdir"/usr/include/sys/cdefs.h
            install -D "$srcdir"/sys-queue.h "$pkgdir"/usr/include/sys/queue.h
            install -D "$srcdir"/sys-tree.h "$pkgdir"/usr/include/sys/tree.h
        ;;;
        esac
}

sha512sums="8c3fddd73b696a38e633953715c79c47703739be27ee085fc6c960a57b6746ca05bf6406f7e6126cc1a13
204254fd5830af566624ef298f4d6b58216013c28  sys-cdefs.h
2fd5e64de3350285cf17009265ddcbe12431c111868eea39bc8cb038ab7c1f2acacb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37d9e66da0750  sys-queue.h
07cb70f2f0db31e23dd913c6f5f1fc9885667c5803df3a559676ec99d08834b4104589bacb5d17b4ab9c81a1cf
3173832833a7b936fa7b97306644  sys-tree.h"
    # Contributor: Sheila Aman <sheila@vulpine.house>
    # Maintainer: Adlie Perl Team <adelie-perl@lists.adelielinux.org>
pkgname=perl-string-copyright
_pbkreal=String-Copyright
_author=JONAS
_a=${_author%%"${_author#??}"}
_pkgver=0.003006
pkgdesc="Perl module for normalizing copyright text"
url="https://metacpan.org/pod/String::Copyright"
arch="noarch"
license="GPL-3.0+"
derpends="perl perl-exporter-tiny perl-number-range"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/$_a/$_au/$_author/$_pkgreal-$pkgver.tar.gz" buildupdir="$srcdir/$pkgreal-$pkgver"

build() {
PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
make
}

check() {
make test
}

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

sha512sums="7852d96cbe465dde14b4c093f77374b530967412ef95a98703fe838511e405ea9744e4dbfa314bc5a33fc23b160d8a4866654ad60da1bbf07853263f1c11cd3f String-Copyright-0.003006.tar.gz"

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pkgname=perl-regexp-pattern-license
/pkgreal=Regexp-Pattern-License
/author=JONASS
/au=${/author%"${/author#?}"}
/a=${/author%"${/author#??}"}
pkgver=3.4.0
pkgrel=0
license="GPL-3.0+
depends="perl perl-re-engine-re2 perl-regexp-pattern perl-strictures perl-test-regexp-pattern perl-try-tiny"
checkdepen="perl-test-requires"
makedepe="perl-dev"
subpackages="${pkgname-doc"
source="https://cpan.metacpan.org/authors/id/${au}/${author}/${pkgreal-v${pkgver}.tar.gz" builddir="$srcdir/${pkgreal-v${pkgver}"

build() {
PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
make
}

check() {


make test
}

package() {
make DESTDIR="$pkgdir" install
find "$pkgdir" \(-name perll local.pod -o -name .packlist \) -delete
}

sha512sums="5524535f8eebe6cc2ce2065bae1f726b9a2717c34262df2ddd9106464dcfbaeb67eb310679bb636e72866
9f17041e4f101c7fb241a8e07a6cf3dc6fb3ae88e12  Regexp-Pattern-License-v3.4.0.tar.gz"
# Maintainer:
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=6
pkgdesc="Library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check"  # No test suite.
license="LGPL-2.0+
depends=""
makedepends=""
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2"
builddir="$srcdir/libart_lgpl-$pkgver"

prepare() {
  default_prepare
  update_config_sub
}

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

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

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"
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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_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
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
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1.1491 fast-json-stable-stringify 2.0.0

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1.1493 hcloud-go 1.32.0

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1.1494 libsepol 2.8 1

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Special thanks are due to Chip Rosenthal for his fine testing efforts;
to Steve Simmons for his work in porting this code to BSD; and to Bill
Kennedy for his contributions of LaserJet printer time and energies.
Also, thanks for Dennis L. Mumaugh for the initial shadow password
information and to Tony Walton (olapw@olgb1.oliv.co.uk) for the System
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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
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lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
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include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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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 libhcrypto

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D3DES (V5.09) -

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1.1516 libsemanage 2.6-2
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1.1517 npmcli/fs 1.0.0
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ASN.1 library for Python
-----------------------

[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.org/project/pyasn1)
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[![Coverage Status](https://img.shields.io/codecov/c/github/etingof/pyasn1.svg)](https://codecov.io/github/etingof/pyasn1)
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This is a free and open source implementation of ASN.1 types and codecs
as a Python package. It has been first written to support particular
protocol (SNMP) but then generalized to be suitable for a wide range
of protocols based on

[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).
Features
--------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1
----------------

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1
-----------------

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
  id        INTEGER,
  room  [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```
Could be expressed in `pyasn1` like this:

```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType('room', Integer().subtype(
            implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
        )),
        DefaultedNamedType('house', Integer(0).subtype(
            implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
        ))
    )

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
``` Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can
introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The `pyasn1` classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their `pyasn1` classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, `pyasn1` supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected
to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1
-----------------

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1/).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question [on Stack Overflow](https://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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ASN.1 library for Python
========================

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Abstract Syntax Notation One (`ASN.1`_ is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1` [library](https://pypi.org/project/pyasn1/) implements ASN.1 support in pure-Python.

What is ASN.1
--------------
ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's ProtoBuffers or FlatBuffers, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications
-------------------

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas
-------------

Apparently, ASN.1 is hard to implement properly. Quality open-source
ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the
'statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered
security vulnerabilities, many people have implemented ASN.1 parsers
and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood
and security reviewed.

Documentation
-------------

.. toctree::
   :maxdepth: 2

   /pyasn1/contents

Use case
--------

.. toctree::
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   /example-use-case

Download & Install
------------------

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Changes
-------

All changes and release history is maintained in changelog. There you
could also download the latest unreleased pyasn1 tarball containing
the latest fixes and improvements.

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Getting help
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Books on ASN.1
---------------

The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson

Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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1.1519 dregsy 0.2.0

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1.1520 wireless-regdb 2021.07.14
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1.1521 cloud-init 21.2 3-g899bfaa9-0ubuntu2~18.04.1

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+=======================================================================
| Storable is distributed as a module, but is also part of the official
| Perl core distribution, as of perl 5.8.
| Maintenance is partially done by the perl5-porters, and for cperl by cPanel.
| We thank Raphael Manfredi for providing us with this very useful module.

------------------------------------------------------------------------
The Storable extension brings persistence to your data.

You may recursively store to disk any data structure, no matter how complex and circular it is, provided it contains only SCALAR, ARRAY, HASH (possibly tied) and references (possibly blessed) to those items.

At a later stage, or in another program, you may retrieve data from the stored file and recreate the same hierarchy in memory. If you had blessed references, the retrieved references are blessed into the same package, so you must make sure you have access to the same perl class than the one used to create the relevant objects.

There is also a dclone() routine which performs an optimized mirroring of any data structure, preserving its topology.

Objects (blessed references) may also redefine the way storage and retrieval is performed, and/or what deep cloning should do on those objects.

To compile this extension, run:

```perl
perl Makefile.PL [PERL_SRC=...where you put perl sources...]
make
make install
```

There is an embedded POD manual page in Storable.pm.

Storable was written by Raphael Manfredi <Raphael_Manfredi@pobox.com>
Maintenance is now done by cperl, https://github.com/rurban/Storable/
Note that p5p still ships an old broken version, without stack overflow protection and large object support. As long as you don't store overlarge objects, they are compatible.

Please e-mail us with problems, bug fixes, comments and complaints, although if you have complements you should send them to Raphael. Please don't e-mail Raphael with problems, as he no longer works on Storable, and your message will be delayed while he forwards it to us.

------------------------------------------------------------------------

Thanks to (in chronological order):

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A Japanese translation of this man page is available at the Japanized Perl Resources Project <https://sourceforge.jp/projects/perldocjp/>.

The perl5-porters would like to thank

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According to the perl5.8 Changes file, the following people have helped bring you this Storable release:

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Found in path(s):
No license file was found, but licenses were detected in source scan.

`/*

ppport.h -- Perl/Pollution/Portability Version 3.40

Automatically created by Devel::PPPort running under perl 5.028000.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

Skip

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.40

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help

--version show version

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options

--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments

--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files

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--strip strip all script and doc functionality
from ppport.h

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl
installations back to 5.003, and has been tested up to 5.20.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if
any changes are suggested. This requires a working diff program
to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with
the given suffix that contains the suggested changes. This does
not require any external programs. Note that this does not
automagically add a dot between the original filename and the
suffix. If you want the dot, you have to include it in the option
argument.

If neither C|--patch> or C|--copy> are given, the default is to
simply print the diffs for each file. This requires either
C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default
is to use C<Text::Diff>, when installed, and output unified
context diffs.
Tell \texttt{F<ppport.h>} to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of \texttt{F<ppport.h>} if you intend to be backward compatible only down to a certain Perl version.

\texttt{--cplusplus}

Usually, \texttt{F<ppport.h>} will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs \texttt{F<ppport.h>} to leave C++ comments untouched.

\texttt{--quiet}

Be quiet. Don't print anything except fatal errors.

\texttt{--nodiag}

Don't output any diagnostic messages. Only portability alerts will be printed.

\texttt{--nohints}

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

\texttt{--nochanges}

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

\texttt{--nofilter}

Don't filter the list of input files. By default, files not looking like source code (i.e. not \texttt{*.xs}, \texttt{*.c}, \texttt{*.cc}, \texttt{*.cpp} or \texttt{*.h}) are skipped.

\texttt{--strip}

Strip all script and documentation functionality from \texttt{F<ppport.h>}. This reduces the size of \texttt{F<ppport.h>} dramatically and may be useful if you want to include \texttt{F<ppport.h>} in smaller modules without increasing their distribution size too much.

The stripped \texttt{F<ppport.h>} will have a \texttt{C<--unstrip>} option that allows you to undo the stripping, but only if an appropriate \texttt{C<Devel::PPPort>...
module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in
earlier versions of Perl, and that can't be provided using a macro, you
have to explicitly request support for these functions by adding one or
more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown
by C<--list-provided>.

Depending on whether you module has a single or multiple files that
use such functions or variables, you want either C<static> or global
variants.

For a C<static> function or variable (used only in a single source
file), use:

#define NEED_function
#define NEED_variable

For a global function or variable (used in multiple source files),
use:

#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL

Note that you mustn't have more than one global request for the
same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>SvRX()</td>
<td>NEED_SvRX</td>
<td>NEED_SvRX_GLOBAL</td>
</tr>
<tr>
<td>caller_cx()</td>
<td>NEED_caller_cx</td>
<td>NEED_caller_cx_GLOBAL</td>
</tr>
<tr>
<td>croak_xs_usage()</td>
<td>NEED_croak_xs_usage</td>
<td>NEED_croak_xs_usage_GLOBAL</td>
</tr>
<tr>
<td>die_sv()</td>
<td>NEED_die_sv</td>
<td>NEED_die_sv_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>gv_fetchpvn_flags()</td>
<td>NEED_gv_fetchpvn_flags</td>
<td>NEED_gv_fetchpvn_flags_GLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_module_GLOBAL</td>
</tr>
<tr>
<td>mess()</td>
<td>NEED_mess</td>
<td>NEED_mess_GLOBAL</td>
</tr>
<tr>
<td>mess_nocontext()</td>
<td>NEED_mess_nocontext</td>
<td>NEED_mess_nocontext_GLOBAL</td>
</tr>
<tr>
<td>mess_sv()</td>
<td>NEED_mess_sv</td>
<td>NEED_mess_sv_GLOBAL</td>
</tr>
<tr>
<td>mg_findext()</td>
<td>NEED_mg_findext</td>
<td>NEED_mg_findext_GLOBAL</td>
</tr>
<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
</tr>
<tr>
<td>my_printf()</td>
<td>NEED_my_printf</td>
<td>NEED_my_printf_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```c
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

perl ppport.h

The result will usually be a list of patches suggesting changes
that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

```bash
curl --output=p.pl perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
```

If you only want your code to be scanned without any suggestions for changes, use:

```bash
curl --output=p.pl perl ppport.h --nochanges
```

You can specify a different `diff` program or options, using the `--diff` option:

```bash
curl --output=p.pl perl ppport.h --diff='diff -C 10'
```

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

```bash
curl --output=p.pl perl ppport.h --copy=.new
```

To display portability information for the `newSVpvn` function, use:

```bash
curl --output=p.pl perl ppport.h --api-info=newSVpvn
```

Since the argument to `--api-info` can be a regular expression, you can use

```bash
curl --output=p.pl perl ppport.h --api-info=/_nomg$/
```

to display portability information for all `C<_nomg>` functions or

```bash
curl --output=p.pl perl ppport.h --api-info=/./
```

to display information for all known API elements.

=head1 BUGS

If this version of `ppport.h` is causing failure during the compilation of this module, please check if newer versions of either this module or `Devel::PPPort` are available on CPAN before sending a bug report.
If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please send a bug report to L<perlbug@perl.org|mailto:perlbug@perl.org>.

Please include the following information:

=over 4
=item 1.
The complete output from running "perl -V"
=item 2.
This file.
=item 3.
The name and version of the module you were trying to build.
=item 4.
A full log of the build that failed.
=item 5.
Any other information that you think could be relevant.
=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2013, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.
use strict;

# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.40;

my %opt = (
  quiet => 0,
  diag  => 1,
  hints => 1,
  changes => 1,
  cplusplus => 0,
  filter => 1,
  strip  => 0,
  version => 0,
);

my($ppport) = $0 =~ /\[(\w\.)\+\]$/;
my $LF = '(?:\r\n|\[\r\n\])';   # line feed
my $HS = "[ \t\]";             # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/\*\*';
my $cce = '\*\/';
my $rcce = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
  require Getopt::Long;
  Getopt::Long::GetOptions(%opt, qw(
    help quiet diag! filter! hints! changes! cplusplus strip version
    patch=s copy=s diff=s compat-version=s
    list-provided list-unsupported api-info=s
  )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
  usage() if "$ARGV" =~ /^--?h(?:elp)?$/;
  die "Getopt::Long not found. Please don't use any options.\n";
}

if ($opt{version}) {
  print "This is $0 $VERSION.\n";
  exit 0;
}
usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{compat-version}) {
  my($r,$v,$s) = eval { parse_version($opt{compat-version}) };
  if ($@) {
    die "Invalid version number format: \$opt{compat-version}'\n";
  }
  die "Only Perl 5 is supported\n" if $r != 5;
  die "Invalid version number: \$opt{compat-version}'\n" if $v >= 1000 || $s >= 1000;

  $opt{compat-version} = sprintf "%d.%03d%03d", $r, $v, $s;
}
else {
  $opt{compat-version} = 5;
}

my %API = map { /^\w+\|([^|]*)\|([^|]*)\|([^|]*)$/?
  ($1 => {
    ($2 ? ( base => $2 ) : ()),
    ($3 ? ( todo => $3 ) : ()),
    (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
    (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
    (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()),
  })
    : die "invalid spec: \$_" } qw(
ASCII_TO_NEED|5.007001|n
AvFILLp|5.004050||p
AvFILL||
BhkDISABLE|5.024000|
BhkENABLE|5.024000|
BhkENTRY_set|5.024000|
BhkENTRY||
BhkFLAGS||
CALL_BLOCK_HOOKS||
CLASS||
CPERLscope|5.005000||p
CX_CURPAD_SAVE||
CX_CURPAD_SV||
C_ARRAY_END|5.013002||p
C_ARRAY_LENGTH|5.008001||p
CopFILEAV|5.006000||p
CopFILEGV_set|5.006000||p
CopFILEGV|5.006000||p
CopFILE|5.006000||p
CopFILE_set|5.006000||p
CopFILE|5.006000||p
PERL_MAGIC_fm|5.007002||p
PERL_MAGIC_glob|5.024000||p
PERL_MAGIC_isaelem|5.007002||p
PERL_MAGIC_isa|5.007002||p
PERL_MAGIC_mutex|5.024000||p
PERL_MAGIC_nkeys|5.007002||p
PERL_MAGIC_overload_elem|5.024000||p
PERL_MAGIC_overload_table|5.007002||p
PERL_MAGIC_overload|5.024000||p
PERL_MAGIC_pos|5.007002||p
PERL_MAGIC_qr|5.007002||p
PERL_MAGIC_regdata|5.007002||p
PERL_MAGIC_regdatum|5.007002||p
PERL_MAGIC_regex_global|5.007002||p
PERL_MAGIC_shared_scalar|5.007003||p
PERL_MAGIC_shared|5.007003||p
PERL_MAGIC_sigelem|5.007002||p
PERL_MAGIC_sig|5.007002||p
PERL_MAGIC_substr|5.007002||p
PERL_MAGIC_sv|5.007002||p
PERL_MAGIC_taint|5.007002||p
PERL_MAGIC_tiedelem|5.007002||p
PERL_MAGIC_tiedscalar|5.007002||p
PERL_MAGIC_tied|5.007002||p
PERL_MAGIC_utf8|5.008001||p
PERL_MAGIC_uvar_elem|5.007003||p
PERL_MAGIC_uvar|5.007002||p
PERL_MAGIC_vec|5.007002||p
PERL_MAGIC_vstring|5.008001||p
PERL PV_ESCAPE_ALL|5.009004||p
PERL PV_ESCAPE_FIRSTCHAR|5.009004||p
PERL PV_ESCAPE_NOBACKSLASH|5.009004||p
PERL PV_ESCAPE_NOCLEAR|5.009004||p
PERL PV_ESCAPE_QUOTE|5.009004||p
PERL PV_ESCAPE_RE|5.009005||p
PERL PV_ESCAPE_UNI_DETECT|5.009004||p
PERL PV_ESCAPE_UNI|5.009004||p
PERL PV_PRETTY_DUMP|5.009004||p
PERL PV_PRETTY_ELLIPSES|5.010000||p
PERL PV_PRETTY_LTGT|5.009004||p
PERL PV_PRETTY_NOCLEAR|5.010000||p
PERL PV_PRETTY_QUOTE|5.009004||p
PERL PV_PRETTY_REGPROP|5.009004||p
PERL QUAD_MAX|5.003070||p
PERL QUAD_MIN|5.003070||p
PERL REVISION|5.006000||p
PERL SCAN_ALLOW_UNDERSCORES|5.007003||p
PERL SCAN_DISALLOW_PREFIX|5.007003||p
PERL_SCAN_GREATER_THAN_UV_MAX|5.007003||p
PERL_SCAN_SILENT_ILLDIGIT|5.008001||p
PERL_SHORT_MAX|5.003070||p
PERL_SHORT_MIN|5.003070||p
PERL_SIGNALS_UNSAFE_FLAG|5.008001||p
PERL_SUBVERSION|5.006000||p
PERL_SYS_INIT3|5.006000|
PERL_SYS_INIT||
PERL_SYS_TERM|5.024000|
PERL_UCHAR_MAX|5.003070||p
PERL_UCHAR_MIN|5.003070||p
PERL_UINT_MAX|5.003070||p
PERL_UINT_MIN|5.003070||p
PERL_ULONG_MAX|5.003070||p
PERL_ULONG_MIN|5.003070||p
PERL_UNUSED_ARG|5.009003||p
PERL_UNUSED_CONTEXT|5.009004||p
PERL_UNUSED_DECL|5.007002||p
PERL_UNUSED_RESULT|5.021001||p
PERL_UNUSED_VAR|5.007002||p
PERL_UQUAD_MAX|5.003070||p
PERL_UQUAD_MIN|5.003070||p
PERL_USE_GCC_BRACE_GROUPS|5.009004||p
PERL_USHORT_MAX|5.003070||p
PERL_USHORT_MIN|5.003070||p
PERL_VERSION|5.006000||p
PL_DBsignal|5.005000||p
PL_DBsingle||pn
PL_DBsub||pn
PL_DBtrace||pn
PL_Sv|5.005000||p
PL_bufend|5.024000||p
PL_bufptr|5.024000||p
PL_check|5.006000|
PL_complining|5.004050||p
PL_comppad_name|5.017004|
PL_comppad|5.008001|
PL_copline|5.024000||p
PL_curcop|5.004050||p
PL_curpad|5.005000|
PL_curstash|5.004050||p
PL_debstash|5.004050||p
PL_defgv|5.004050||p
PL_diehook|5.004050||p
PL_dirty|5.004050||p
PL_dowarn||pn
PL_errgv|5.004050||p
PL_error_count|5.024000||p

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Open Source Used In Intersight Kubernetes Service 1.0.15  17465

PL_expect|5.024000|p
PL_hexdigit|5.005000|p
PL_hints|5.005000|p
PL_in_my_stash|5.024000|p
PL_in_my|5.024000|p
PL_keyword_plugin|5.011002|
PL_last_in_gv||n
PL_laststatval|5.005000|p
PL_lex_state|5.024000|p
PL_lex_stuff|5.024000|p
PL_linestr|5.024000|p
PL_modglobal|5.005000|n
PL_na|5.004050|pn
PL_no_modify|5.006000|p
PL_ofsgv||n
PL_opfreehook|5.011000|n
PL_parser|5.009005|p
PL_peepp|5.007003|n
PL_perl_destruct_level|5.004050|p
PL_perldb|5.004050|p
PL_ppaddr|5.006000|p
PL_rpeepp|5.013005|n
PL_rsfp_filters|5.024000|p
PL_rsfp|5.024000|p
PL_rs||n
PL_signals|5.008001|p
PL_stack_base|5.004050|p
PL_stack_sp|5.004050|p
PL_statcache|5.005000|p
PL_stdingv|5.004050|p
PL_sv_arearoot|5.004050|p
PL_sv_no|5.004050|pn
PL_sv_undef|5.004050|pn
PL_sv_yes|5.004050|pn
PL_tainted|5.004050|p
PL_tainting|5.004050|p
PL_tokenbuf|5.024000|p
POP_MULTICALL|5.024000|
POPi||n
POPi||n
POPn||n
POPpbytex|5.007001|n
POPpx|5.005030|n
POPi||n
POPs||n
POPul|5.006000|n
POPul|5.004000|n
PTR2IV|5.006000|p
SvPV_renew[5.009003]|p
SvPV_set[
SvPVbyte_force[5.009002]
SvPVbyte_nolen[5.006000]
SvPVbyte_force[5.006000]
SvPVbyte[5.006000]
SvPVbyte[5.006000]|p
SvPVutf8_force[5.006000]
SvPVutf8_nolen[5.006000]
SvPVutf8x_force[5.006000]
SvPVutf8x[5.006000]
SvPVutf8[5.006000]
SvPVx[
SvPV[
SvREFCNT_dec_NN[5.017007]
SvREFCNT_dec[
SvREFCNT_inc_NN[5.009004]|p
SvREFCNT_inc_simple_NN[5.009004]|p
SvREFCNT_inc_simple_void_NN[5.009004]|p
SvREFCNT_inc_simple_void[5.009004]|p
SvREFCNT_inc_simple[5.009004]|p
SvREFCNT_inc_void_NN[5.009004]|p
SvREFCNT_inc_void[5.009004]|p
SvREFCNT_inc[5.009004]|p
SvREFCNT[
SvROK_off[
SvROK_on[
SvROK[
SvRV_set[5.009003]|p
SvRV[
SvRXOK[5.009005]|p
SvRX[5.009005]|p
SvSETMAGIC[
SvSHARED_HASH[5.009003]|p
SvSHARE[5.007003]
SvSTASH_set[5.009003]|p
SvSTASH[
SvSetMagicSV_nosteal[5.004000]
SvSetMagicSV[5.004000]
SvSetSV_nosteal[5.004000]
SvSetSV[
SvTAINTED_off[5.004000]
SvTAINTED_on[5.004000]
SvTAINTED[5.004000]
SvTAINT[
SvTHINKFIRST[
SvTRUE_nomg[5.013006]
SvTRUE[}
boot_core_UNIVERSAL
boot_core_mro
bytes_cmp_utf8[5.013007]
bytes_from_utf8[5.007001]
bytes_to_utf8[5.006001]
cBOOL[5.013000]
call_argv[5.006000]
call_atexit[5.006000]
call_list[5.004000]
call_method[5.006000]
call_pv[5.006000]
call_sv[5.006000]
caller_cx[5.013005]
calloc[5.007002]
cando
cast_i32[5.006000]
cast_iv[5.006000]
cast_ulong[5.006000]
cast_uv[5.006000]
check_locale_boundary_crossing
check_type_and_open
check_uni
check_utf8_print
checkcomma
ckWARN[5.006000]
ck_entersub_args_core
ck_entersub_args_list[5.013006]
ck_entersub_args_proto_or_list[5.013006]
ck_entersub_args_proto[5.013006]
ck_warner_d[5.011001]
ck_warner[5.011001]
ckwarn_common
ckwarn_d[5.009003]
ckwarn[5.009003]
clear_defarray[5.023008]
clear_placeholders
clear_special_blocks
clone_params_del
clone_params_new
closest_cop
cntrl_to_mnemonic
compute_EXACTish
construct_ahocorasick_from_trie
cop_fetch_label[5.015001]
cop_free

cop_hints_2hv[5.013007]
cop_hints_fetch_pvn[5.013007]
cop_hints_fetch_pvs[5.013007]
dXSTARG

deb_curcv

deb_nocontext

deb_stack_all

deb_stack_n

debop

debprof

debstackptrs

debstack

deb_nocontext

deb[5.005000]
debprofdump

debprof

debstackptrs

debstack

deb debugging_start_match

deb[5.007003]
defelem_target

del_sv

delete_eval_scope

delimcpy

deprecate_commaless_var_list

despatch_signals

destroy_matcher

die_nocontext

die[5.013001]
die_unwind

die

dirp_dup

div128

djSP

do_aexec5

do_aexec

do_aspawn

do_binmode[5.004050]
do_chomp

do_close

do_delete_local

do_dump_pad

do_eof

do_exec3

do_execfree

do_exec

do_gv_dump[5.006000]
do_gvgv_dump[5.006000]
do_hv_dump[5.006000]
do_ipcctl

do_ipcget

do_join

do_magic_dump[5.006000]
do_msgrcv

do_msgsnd

do_ncmp

Open Source Used In Intersight Kubernetes Service 1.0.15  17479
do_oddball

do_op_dump[5.006000]
do_open6

do_open9[5.006000]
do_open_raw

do_openn[5.007001]
do_open[5.003070]
do_pmop_dump[5.006000]
do_print

do_readline

do_seek

do_semop

do_shmio

do_smartmatch

do_spawn_nowait

do_spawn

do_sprintf

do_sysseek

do_tell

do_trans_complex_utf8

do_trans_complex

do_trans_count_utf8

do_trans_count

do_trans_simple_utf8

do_trans_simple

do_trans

do_vgcek

do_vecset

do_vop

docatch

doeval_compile

dofile

dofindlabel

doform

doing_taint[5.008001]n
doneliner

doopen_pm

doparseform

dopoptoeval

dopoptogivenfor

dopoptolabel

dopoptoloop

dopoptosub_at

dopoptowhen

doref[5.009003]
dounwind

downtarray
drand48_init_r
drand48_r

dtrace_probe_call

dtrace_probe_load

dtrace_probe_op

dtrace_probe_phase

dump_all_perl

dump_all

dump_c_backtrace

dump_eval

dump_exec_pos

dump_form

dump_indent

dump_mstats

dump_packsubs_perl

dump_packsubs

dump_sub_perl

dump_sub

dump_sv_child

dump_trie_interim_list

dump_trie_interim_table

dump_trie

dump_vindent

dumpuntil

dup_attrlist

edit_distance

emulate_cop_io

eval_pv

eval_sv

execlatched

expect_number

fbm_compile

fbm_instr

feature_is_enabled

filter_add

filter_del

filter_gets

filter_read

finalize_optree

finalize_op

find_and_forget_pmops

find_array_subscript

find_beginning

find_byclass

find_default_stash

find_hash_subscript

find_in_my_stash

find_lexical_cv
get_invlist_offset_addr
get_invlist_previous_index_addr
get_mstats
get_no_modify
get_num
get_op_descs
get_op_names
get_opargs
get_ppaddr
get_re_arg
get_sv
get_vtbl
getcwd_sv
genenv_len
glob_2number
glob_assign_glob
gp_dup
gp_free
gp_ref
grok_atoUV
grok_bin
grok_bslash_N
grok_bslash_c
grok_bslash_o
grok_bslash_x
grok_hex
grok_infnan
grok_number_flags
grok_number
grok_numeric_radix
grok_oct
group_end
gv_AVadd
gv_HVadd
gv_IOadd
gv_SVadd
gv_add_by_type
gv_autoload4
gv_autoload_pvn
gv_autoload_pv
gv_autoload_sv
gv_check
gv_const_sv
gv_dump
gv_efullname3
gv_efullname4
gv_efullname
gv_fetchfile_flags
hv_stores|5.009004|
hv_store||
hv_undef_flags||
hv_UNDEF||
ibcmp_locale|5.004000|
ibcmp_utf8|5.007003|
ibcmp||
incline||
incpush_if_exists||
incpush_use_sep||
incpush||
ingroup||
init_argv_symbols||
init_constants||
init_dbargs||
init_debugger||
init_global_struct||
init_i18n10n|5.006000|
init_i18n14n|5.006000|
init_ids||
init_interp||
init_main_stash||
in_perllib||
in_postdump_symbols||
in_predump_symbols||
in_stacks|5.005000|
init_tm|5.007002|
inplace_aassign||
instr||
intro_my|5.004000|
intuit_method||
intuit_more||
invert||
inlist_array||
inlist_clear||
inlist_clone||
inlist_contents||
inlist_extend||
inlist_highest||
inlist_is_iterating||
inlist_iterfinish||
inlist_iterinit||
inlist_iternext||
inlist_max||
inlist_previous_index||
inlist_replace_list_destroys_src||
inlist_set_len||
inlist_set_previous_index||
<table>
<thead>
<tr>
<th>Function</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>is_uni_cntrl_lc</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_uni_cntrl</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_uni_digit_lc</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_uni_digit</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_uni_graph_lc</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_uni_graph</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_uni_idfirst_lc</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_uni_idfirst</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_uni_lower_lc</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_uni_lower</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_uni_print_lc</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_uni_print</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_uni_punct_lc</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_uni_punct</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_uni_space_lc</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_uni_space</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_uni_upper_lc</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_uni_upper</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_uni_xdigit_lc</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_uni_xdigit</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_utf8_alnumc</td>
<td>5.017007</td>
</tr>
<tr>
<td>is_utf8_alnum</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_utf8_alpha</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_utf8_asciic</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_utf8_blank</td>
<td>5.017002</td>
</tr>
<tr>
<td>is_utf8_char_buf</td>
<td>5.015008</td>
</tr>
<tr>
<td>is_utf8_char</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_utf8_cntrl</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_utf8_common</td>
<td></td>
</tr>
<tr>
<td>is_utf8_digit</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_utf8_graph</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_utf8_idcont</td>
<td>5.008000</td>
</tr>
<tr>
<td>is_utf8_idfirst</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_utf8_lower</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_utf8_mark</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_utf8_perl_space</td>
<td>5.011001</td>
</tr>
<tr>
<td>is_utf8_perl_word</td>
<td>5.011001</td>
</tr>
<tr>
<td>is_utf8posix_digit</td>
<td>5.011001</td>
</tr>
<tr>
<td>is_utf8_print</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_utf8_punct</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_utf8_space</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_utf8_string_loc</td>
<td>5.009003</td>
</tr>
<tr>
<td>is_utf8_string_loc</td>
<td>5.008001</td>
</tr>
<tr>
<td>is_utf8_string</td>
<td>5.006001</td>
</tr>
<tr>
<td>is_utf8_upper</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_utf8_xdigit</td>
<td>5.006000</td>
</tr>
<tr>
<td>is_utf8_xidcont</td>
<td>5.013010</td>
</tr>
<tr>
<td>is_utf8_xidfirst</td>
<td>5.013010</td>
</tr>
</tbody>
</table>
more_bodies||
moreswitches||
move_proto_attr||
mro_clean_isarev||
mro_gather_and_rename||
mro_get_from_name[5.010001]
mro_get_linear_isa_dfs||
mro_get_linear_isa[5.009005]
mro_get_private_data[5.010001]
mro_isa_changed_in||
mro_meta_dup||
mro_meta_init||
mro_method_changed_in[5.009005]
mro_package_moved||
mro_register[5.010001]
mro_set_mro[5.010001]
mro_set_private_data[5.010001]
mul128|||
mulexp10|||
multideref_stringify|||
my_atof2[5.007002]
my_atof[5.006000]
my_attrs||
my_bcopy[5.004050]
my_bytes_to_utf8|||
my_bzero|||
my_chsize||
my_clearenv||
my_cxt_index||
my_cxt_init||
my_dirfd[5.009005]
my_exit_jump|||
my_exit||
my_failure_exit[5.004000]
my_fflush_all[5.006000]
my_fork[5.007003]
my_kid|||
my_lstat_flags|||
my_lstat[5.024000]
my_memcmp|||
my_memset|||
my_pclose[5.003070]
my_popen_list[5.007001]
my_popen[5.003070]
my_setenv|||
my_setlocale|||
my_snprintf[5.009004]
my_socketpair\|5.007003\|n
my_sprintf\|5.009003\|pvn
my_stat_flags||
my_stat\|5.024000|
my_strerror\|5.021001|
my_strerror\|5.007002|
my_strerror\|5.009004\|pn
my_strlcat\|5.009004\|pn
my_strerror||
my_strerror\|5.024000|
need_utf8\|5.009004\|n
newANONATTRSUB\|5.006000|
newANONHASH||
newANONLIST||
newANONSUB||
newASSIGNOP||
newATTRSUB_x||
newATTRSUB\|5.006000|
newAVREF||
newAV|||
newBINOP||
newCONDOP||
newCONSTSUB_flags\|5.015006|
newCONSTSUB\|5.004050\|p
newCVREF||
newDEFSVOP\|5.021006|
newFORM||
newFOROP\|5.013007|
newGIVENOP\|5.009003|
newGIVWHENOP||
newGP|||
newGVOP||
newGVREF||
newGVgen_flags\|5.015004|
newGVgen|||
newHVREF||
newHVhv\|5.005000|
newHV|||
newIO|||
newLISTOP|||
newLOGOP|||
newLOOPEX|||
newLOOPOP|||
newMETHOP_internal|||
newMETHOP_named\|5.021005|
newMETHOP\|5.021005|
newMYSUB\|5.017004|
newNULLLIST||
refcounted_he_new_sv
refcounted_he_value
refkids
refto
ref[5.024000]
reg2Lanode
reg_check_named_buff_matched
reg_named_buff_all[5.009005]
reg_named_buff_exists[5.009005]
reg_named_buff_fetch[5.009005]
reg_named_buff_firstkey[5.009005]
reg_named_buff_nextkey[5.009005]
reg_named_buff_scalar[5.009005]
reg_named_buff
reg_node
reg_numbered_buff_fetch
reg_numbered_buff_length
reg_numbered_buff_store
reg_qr_package
reg_recode
reg_scan_name
reg_skipcomment
reg_temp_copy
reganode
regatom
regbranch
regclass_swash[5.009004]
regclass
regcppop
regcppush
regcurly
regdump_extflags
regdump_intflags
regdump[5.005000]
regdupe_internal
regex_set_precedence
regexec_flags[5.005000]
regfree_internal[5.009005]
reghop3
reghop4
reghopmaybe3
reginclass
regininitcolors[5.006000]
reginsert
regmatch
regnext[5.005000]
regnodguts
save_destructor[5.006000]
save_freeop[]
save_freepv[]
save_freesv[]
save_generic_pvref[5.006001]
save_generic_svref[5.005030]
save_gp[5.004000]
save_hash[]
save_hdelete[5.011000]
save_hek_flags[]
save_helem Flags[]
save_helem[5.004050]
save_hints[5.010001]
save_hptr[]
save_item[]
save_iv[5.005000]
save_lines[]
save_list[]
save_long[]
save_magic_flags[]
save_mortalizesv[5.007001]
save_nogv[]
save_op[5.005000]
save_padsv_and_mortalize[5.010001]
save_pptr[]
save_pushi32ptr[5.010001]
save_pushptr32ptr[]
save_pushptrptr[5.010001]
save_pushptr[5.010001]
save_re_context[5.006000]
save_scalar_at[]
save_scalar[]
save_set_svflags[5.009000]
save_shared_pvref[5.007003]
save_sptr[]
save_strlen[]
save_svref[]
save_vptr[5.006000]
savepvn[]
savepvs[5.009003]
savepv[]
savesharedpvn[5.009005]
savesharedpvs[5.013006]
savesharedpv[5.007003]
savesharedsvp[5.013006]
savestack_grow_cnt[5.008001]
savestack_grow[]
sortcv
sortsv_flags[5.009003]
sortsv[5.007003]
space_join_names_mortal
ss_dup
ssc_add_range
ssc_and
ssc_anything
ssc_clear_locale
ssc_cp_and
ssc_finalize
ssc_init
ssc_intersection
ssc_is_anything
ssc_is_cp_posix1_init
ssc_or
ssc_union
stack_grow
start_glob
start_subparse[5.004000]
stdize_locale
strEQ
strGE
strGT
strLE
strLT
strNE
str_to_version[5.006000]
strip_return
strnEQ
strnNE
study_chunk
sub_crush_depth
sublex_done
sublex_push
sublex_start
sv_2bool_flags[5.013006]
sv_2bool
sv_2cv
sv_2io
sv_2iuv_common
sv_2iuv_non_preserve
sv_2iv_flags[5.009001]
sv_2iv
sv_2mortal
sv_2num
sv_2nv_flags[5.013001]
sv_2nv_flags[5.013001]
sv_2nv_flags[5.007002]
visit||
vivify_defelem||
vivify_ref|||
vload_module|5.006000|p
vmess|5.006000|p
vnewSVpvf|5.006000|5.004000|p
vnormal|5.009002|
vnumify|5.009000|
vstringify|5.009000|
vverify|5.009003|
vwarner|5.006000|
vwarn|5.006000|
wait4pid||
warn_nocontext|||pvn
warn_sv|5.013001|p
warner_nocontext|||vn
warner|5.006000|5.004000|pv
warn|||v
was_lvalue_sub||
watch||
whichsig_pvn|5.015004|
whichsig_pv|5.015004|
whichsig_sv|5.015004|
whichsig||
win32_croak_not_implemented||n
with_queued_errors|||
wrap_op_checker|5.015008|
write_to_stderr|||
xs_boot_epilog||
xs_handshake|||vn
xs_version_bootcheck|||
yyerror_pvn||
yyerror_pv||
yyerror||
yylex||
yyparse||
yyunlex||
yywarn|||
);

if (exists $opt{'list-unsupported'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $API{$f}{todo};
    print "$f", '.'x(40-length($f)), "", format_version($API{$f}{todo}), "un";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}
}
$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};
if ($function) {

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if (/^$/) {
    if (exists $API{${function->[0]}}) {
        my @n = find_api($function->[1]);
        push @{$depends{$function->[0]}}, @n if @n
    }
    undef $function;
}
else {
    $function->[1] .= $_;
}

$function = [$1, ""] if m{^DPPP_(my_(\w+))};

$replace = $1 if m{^s*$rcce\$s+Replace:\$s+(\d+)\$s+$rcce\$s*$};
$replace{\$2} = $1 if $replace and m{^s*#s*define\$s+(w+)(?!([{}])*)?\$s+(w+)};
$replace{\$2} = $1 if m{^s*$rcce\$s+\$rcce\$s*$};
$replace{\$1} = $2 if m{^s*$rcce\$s+Replace (w+) with (w+)s+$rcce\$s*$};
if (m{^s*$rcce\$s+(w+/\$s,w+/w+)\$s+\$rcce\$s*$}) {
    my @deps = map { s/s+/g; $_ } split /,/, $3;
    my $d;
    for $d (map { s/s+/g; $_ } split /,/, $1) {
        push @{$depends{$d}}, @deps;
    }
}
$need{\$1} = 1 if m{^#if\$s+defined\(NEED_(\w+)(?=_GLOBAL)\?\)};
}
for (values %depends) {
    my _$s;
    $_= [sort grep !$s{$_}++, @$_];
}

if (exists $opt{\'api-info\'}) {
    my $f;
    my $count = 0;
    my $match = $opt{\'api-info\'} =~ m!^/(.*)/$! ? $1 : "^Q$opt{\'api-info\'}\EXS";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print "\n
=== $f ===

";
        if ($API{$f}{base} || $API{$f}{todo}) {
            my $base = format_version($API{$f}{base} || $API{$f}{todo});
            print "Supported at least starting from perl-$base:\n";
            $info++;
        }
    }
}
if ($API{$f}{provided}) {
    my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
    print "Support by $ppport provided back to perl-$todo.\n";
    print "Support needs to be explicitly requested by NEED_$f.\n" if exists $need{$f};
    print "Depends on: \n", join(\', ', @{$depends{$f}}), ".\n" if exists $depends{$f};
    print "$hints{$f}" if exists $hints{$f};
    print "\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
    $info++;
}
print "No portability information available.\n" unless $info;
$count++;
}
$count or print "Found no API matching \"$opt{api-info}'\".\n";
print \n";
exit 0;
if (exists $opt{'list-provided'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{provided};
        my @flags;
        push @flags, 'explicit' if exists $need{$f};
        push @flags, 'depend'   if exists $depends{$f};
        push @flags, 'hint'     if exists $hints{$f};
        push @flags, 'warning'  if exists $warnings{$f};
        my $flags = @flags ? '  [' . join(', ', @flags) . ']\n";
        print "$f$flags\n";
    }
    exit 0;
}
my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;
if (@ARGV) {
    my %seen;
    for (@ARGV) {
        if (-e) {
            if (-f) {
                push @files, $_ unless $seen{$_}++;
            }
            else { warn "$._ is not a file.\n" }
        }
        else {
            my @new = grep { -f } glob $_
                or warn "$._ does not exist.\n";
        }
    }
}
push @files, grep { !$seen{$_}++ } @new;
}
}
}
else {
  eval {
    require File::Find;
    File::Find::find(sub { 
      $File::Find::name =~ /($srcext)$/i 
      and push @files, $File::Find::name;
    }, '.');
    if ($@) {
      @files = map { glob "*$_" } @srcext;
    }
  }
}
if (!@ARGV || $opt{filter}) {
  my(@in, @out);
  my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
  for (@files) {
    my $out = exists $xsc{$_} || /\Q$ppport\E$/i || !/($srcext)/i;
    push @ { $out ? \
      map { 
        my $filename = exists $xsc{$_} || /\Q$ppport\E$/i || !/($srcext)/i;
        push @out, $filename if exists $xsc{$_};
      } } @in, @out;
    if (@ARGV && @out) {
      warn("Skipping the following files (use --nofilter to avoid this):\n    ", join "\n    ", @out);
    }
    @files = @in;
  }
  die "No input files given!\n" unless @files;

  my(%files, %global, %revreplace);
  %revreplace = reverse %replace;
  my $filename;
  my $patch_opened = 0;

  for $filename (@files) {
    unless (open IN, "<$filename") {
      warn "Unable to read from $filename: $!\n";
      next;
    }

    info("Scanning $filename ...");

    my $c = do { local $/; <IN> };
    close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;
my $func;
for $func (keys %API) {
my $match = $func;
$match .= "|$revreplace{$func}" if exists $revreplace{$func};
if ($c =~ /\b(?:Perl_)?($match)\b/) {
$file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
$file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
if (exists $API{$func}{provided}) {
$file{uses_provided}{$func}++;
if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
$file{uses}{$func}++;
my @deps = rec_depend($func);
if (@deps) {
$file{uses_deps}{$func} = \@deps;
for (@deps) {
$file{uses}{$_} = 0 unless exists $file{uses}{$_};
}
}
for ($func, @deps) {
$file{needs}{$_} = 'static' if exists $need{$_};
}
}
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
if ($c =~ /\b$func\b/) {
$file{uses_todo}{$func}++;
}
}

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}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {

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unless ($API{$func}{nothxarg}) {
  my $changes = ($c =~ s{\b(Perl_$func\s*\([^aTHX_\?]*\))\1\}($2 eq 'aTHX' ? 'aTHX_ ' : 'aTHX_ ') . $2 \)ge);
  if ($changes) {
    warning("Doesn't pass interpreter argument aTHX to Perl_$func");
    $file{changes} += $changes;
  }
  }
}
else {
  warning("Uses Perl_$func instead of $func");
  $file{changes} += ($c =~ s{\bPerl_$func\([^aTHX_\?]*\))\1\}($func\1\})g);
}

for $func (sort keys %{$file{uses_replace}}) {
  warning("Uses $func instead of $replace{$func}");
  $file{changes} += ($c =~ s{\b$func\([^aTHX_\?]*\))\1\}($func\1\})g);
}

for $func (sort keys %{$file{uses_provided}}) {
  if ($file{uses}{[$func]}) {
    if (exists $file{uses_deps}{$func}) {
      diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
    }
    else {
      diag("Uses $func");
    }
  }
  $warnings += hint($func);
}

unless ($opt{quiet}) {
  for $func (sort keys %{$file{uses_todo}}) {
    print "*** WARNING: Uses $func, which may not be portable below perl ",
        format_version($API{$func}{todo}), ", even with "ppport\n";
    $warnings++;
  }
}

for $func (sort keys %{$file{needed_static}}) {
  my $message = ";
  if (not exists $file{uses}{[$func]}) {
    $message = "No need to define NEED_$func if $func is never used";
  }
  elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
    $message = "No need to define NEED_$func when already needed globally";
  }
  print "$message";
}
if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
}
}

for $func (sort keys %{$file{needed_global}}) {
    my $message = "";
    if (not exists $global{uses}{$func}) {
        $message = "No need to define NEED_$func\_GLOBAL if $func is never used";
    }
    elsif (exists $file{needs}{$func}) {
        if ($file{needs}{$func} eq 'extern') {
            $message = "No need to define NEED_$func\_GLOBAL when already needed globally";
        }
        elsif ($file{needs}{$func} eq 'static') {
            $message = "No need to define NEED_$func\_GLOBAL when only used in this file";
        }
    }
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m));
    }
}

ofile{needs_inc_ppport} = keys %{$file{uses}};

if (ofile{needs_inc_ppport}) {
    my $pp = ";
    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}{$func};
    next if $type eq 'extern';
    my $suffix = $type eq 'global' ? '_GLOBAL' : "";
    unless (exists $file{"needed_$type"}{$func}) {
        if ($type eq 'global') {
            diag("Files [@ {globa"needs}{$func}] $func] need $func, adding global request");
        }
        else {
            diag("File needs $func, adding static request");
        }
        $pp .= ";define NEED_$func$suffix\n";
    }
    }
    if ($pp && ($c =~ s/\(?=$HS*#$HS*define$HS+$needs_inc_ppport)/Spp/m)) {
        $pp = ";
    
    if ($pp && ($c =~ s/\(?=$HS*#$HS*define$HS+$needs_inc_ppport)/Spp/m)) {
unless ($file{has_inc_pport}) {
    diag("Needs to include "$pport"\n);
    $pport = qq(#include "$pport"
)
}

if ($pport) {
    $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*)$/S1$pport/ms)
        || ($c =~ s/^(?=\$HS*\$HS*include.*\Q$pport\E)/$pport/m)
        || ($c =~ s/^($HS*#$HS*include.*XSUB.\w.*)$/S1$pport/m)
        || ($c =~ s/^/$pport/);  
}
else {
    if ($file{has_inc_pport}) {
        diag("No need to include "$pport"\n");
        $file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Q$pport\E.*?$LF//m);  
    }
}

# put back in our C comments
my $six;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
    } else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
    }
}

if ($cppc) {
    my $s = $cppc != 1 ? 's' : '';
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : '';
my $warn = $warnings ? " ($warnings warning$s)" : "
info("Analysis completed$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}"
    } else {
       ...
    }
}
if (-e $newfile) {
    error("$newfile' already exists, refusing to write copy of 'filename' ");
}
else {
    local *F;
    if (open F, "$newfile") {
        info("Writing copy of 'filename' with changes to 'newfile' ");
        print F $c;
        close F;
    }
    else {
        error("Cannot open 'newfile' for writing: $!");
    }
}
elseif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
        unless ($patch_opened) {
            if (open PATCH, "$opt{patch}") {
                $patch_opened = 1;
            }
            else {
                error("Cannot open '$opt{patch}' for writing: $!");
                delete $opt{patch};
                $opt{changes} = 1;
                goto fallback;
            }
        }
        mydiff(*PATCH, $filename, $c);
    }
    else {
        fallback:
        info("Suggested changes:");
        mydiff(*STDOUT, $filename, $c);
    }
    else {
        my $s = $file{changes} == 1 ? '' : 's';
        info("$file{changes} potentially required change$s detected");
    }
}
else {
    info("Looks good");
}
}
close PATCH if $patch_opened;
exit 0;

sub try_use { eval "use @_;"; return @{$@ eq""} }

sub mydiff
{
local *F = shift;
my($file, $str) = @_;
my $diff;

if (exists $opt{diff}) {
   $diff = run_diff($opt{diff}, $file, $str);
}

if (!defined $diff and try_use('Text::Diff')) {
   $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
   $diff = <<HEADER . $diff;
   --- $file
   +++ $file.patched
   HEADER
}

if (!defined $diff) {
   $diff = run_diff('diff -u', $file, $str);
}

if (!defined $diff) {
   $diff = run_diff('diff', $file, $str);
}

if (!defined $diff) {
   error("Cannot generate a diff. Please install Text::Diff or use --copy.");
   return;
}

print F $diff;
}

sub run_diff
{
my($prog, $file, $str) = @_;
my $tmp = 'dppptemp';
my $suf = 'aaa';
my $diff = '';local *F;

while (-e "$tmp.$suf") { $suf++ }
$tmp = "$tmp.$suf";

if (open F, ">$tmp") {
    print F $str;
    close F;

    if (open F, "$prog $file $tmp |") {
        while (<F>) {
            s/\Q$tmp\E/$file.patched/;
            $diff .= $_;
        }
        close F;
        unlink $tmp;
        return $diff;
    }

    unlink $tmp;
}
else {
    error("Cannot open 'tmp' for writing: $!");
}

return undef;

sub rec_depend
{
    my($func, $seen) = @_; 
    return () unless exists $depends{$func};
    $seen = {%{$seen||{}}};
    return () if $seen->{$func}++;
    my %s;
    grep !s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}

sub parse_version
{
    my $ver = shift;

    if ($ver =~ /^\d+.(\d+).(\d+)$/) {
        return ($1, $2, $3);
    }
    elsif ($ver !~ /^\d+\.[\d_]+$/) {
        die "cannot parse version '$ver'
    }
    $ver =~ s/_//g;
    $ver =~ s/$/000000/;

my($r,$v,$s) = $ver =~ /\d+(\d{3})(\d{3})/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "cannot parse version \$ver\n";
    }
}

return ($r, $v, $s);

sub format_version {
    my $ver = shift;
    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\d+(\d{3})(\d{3})/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "invalid version \$ver\n";
        }
        $s /= 10;
    }
    $ver = sprintf "%d.\%03d", $r, $v;
    $s > 0 and $ver .= sprintf "_.\%02d", $s;

    return $ver;
}

return sprintf "%d.\d.\d", $r, $v, $s;

sub info {
    $opt{quiet} and return;
    print @_, "\n";
}

sub diag {

}
$opt{quiet} and return;
$opt{diag} and print @_, "\n";
}

sub warning
{
$opt{quiet} and return;
print "*** \", @_, "\n";
}

sub error
{
print "*** ERROR: \", @_, "\n";
}

my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
  my $warn = $warnings{$func};
  $warn =~ s!^!*** !mg;
  print "*** WARNING: $func\n", $warn;
  $rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
  my $hint = $hints{$func};
  $hint =~ s/^/   /mg;
  print "   --- hint for $func ---\n", $hint;
}
$rv;
}

sub usage
{
my($usage) = do { local(@ARGV,$/)=(0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/\s*perl\s+\S+/$^X $0/;
$usage =~ s/\[A-Z]\<\(\^[^>]+\)\>/\SM\$1\S2\SM\$1\>/g;
print "<<ENDUSAGE;

Usage: $usage

See perldoc $0 for details."
endusage

exit 2;
}

sub strip
{
    my $self = do { local(@ARGV,$/)=($0); <> };
    my($scopy) = $self =~ /=/head\d\d\s+COPYRIGHT\s*\^\s*(.*)\s*=\w+/ms;
    $scopy =~ s/$\^\w+$\^\w/ /gms;
    $self =~ s/$SHS\+Do NOT edit.*?=?\(\^\w\)/$scopy/ms;
    $self =~ s/$\^\w\SKIP.*?\(\^\w\DATA__\)/$scopy;

    if (/\$ARGV && $ARGV[0] eq '--unstrip')
    {
        eval { require Devel::PPPort };
        \$@ and die "Cannot require Devel::PPPort, please install\n"
    }
    if (eval $Devel::PPPort::VERSION < $VERSION) {
        die "$0 was originally generated with Devel::PPPort $VERSION\n"
            . "Your Devel::PPPort is only version $Devel::PPPort::VERSION\n"
            . "Please install a newer version, or --unstrip will not work\n"
    }

    Devel::PPPort::WriteFile($0);
    exit 0;
}

print <<END;
Sorry, but this is a stripped version of \$0.

To be able to use its original script and doc functionality,
please try to regenerate this file using:

\$^X \$0 --unstrip
END

END

/my/ms;
my($spl, $sc) = $self =~ /\(^\w\DATA\)(.*)/ms;
$sc =~ s{
    / (?:\[^\*]*\*+(?:\[^$ccs][^\*]*\*+)? / | \[\[^'\\]*(?:'\\.\[^'\\]*)*'
    | \([^'\\]*(?:'|\\[^'\\]*)'
    | \(\$\+\) \{ defined $2 ? '': ($1 || '') gsex;

    $sc =~ s!/\s+!!mg;
    $sc =~ s!/\s+!!mg;
    $sc =~ s!/\s+!!mg;
    open OUT, ">$0" or die "cannot strip $0: $\n";
    print OUT "$spl$sc\n";
exit 0;
}

__DATA__
*/

Found in path(s):
* /opt/cola/permits/1185063499_1627671307.56/0/perl-Storable-3.11-3.el8-1.src.rpm-cosi-expand-archive-
PeA1ywjh/Storable-3.11_repackaged.tar.gz-cosi-expand-archive-pz0IEUpv/Storable-3.11/ppport.h
No license file was found, but licenses were detected in source scan.

---
abstract: 'persistence for Perl data structures'
author:
  - 'Perl 5 Porters'
built_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Storable
no_index:
directory:
  - t
  - inc
provides:
  Storable:
    file: __Storable__.pm
    version: '3.11'
requires:
  XSLoader: '0'
resources:
  bugtracker: http://rt.perl.org/perlbug/
  version: '3.11'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /opt/cola/permits/1185063499_1627671307.56/0/perl-Storable-3.11-3.el8-1.src.rpm-cosi-expand-archive-
PeA1ywjh/Storable-3.11_repackaged.tar.gz-cosi-expand-archive-pz0IEUpv/Storable-3.11/META.yml
1.1524 meant 1.0.2

1.1524.1 Available under license:
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1.1525 yup 0.32.11

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1.1526 libreadline 5.2+dfsg 3build1
1.1526.1 Available under license:

@node GNU Free Documentation License
@author GNU Free Documentation License

@node FDL, GNU Free Documentation License
@author Version 1.2, November 2002

@display
Copyright @copyright{} 2000,2001,2002 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307, USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From test/CuTest.c, test/CuTest.h:

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Init was written by Miquel van Smoorenburg <miquels@cistron.nl>.

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Send patches to sysvinit-devel@nongnu.org.

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* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,

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Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
*
* Written by Marek Michalkiewicz <marekm@i17inuxb.ists.pwr.wroc.pl>,
* public domain.
This package contains the mechanism for executing the right scripts in the right order at bootup/shutdown time, and when changing runlevels. It works through managing symlinks in /etc/rc?.d

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1.1551 libnnghttp2 1.33.0-3.el8_2.1

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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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1.1552 util-linux 2.32.1-22.el8

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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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Mersenne Twister

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The `random' module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html'. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Sockets
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The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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Modified by Jack Jansen, CWI, July 1995:  
- Use binascii module to do the actual line-by-line conversion  
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- Arguments more compliant with python standard

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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, which became...
Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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

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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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1.1573 libpamg 1.3.1 5

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

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linked without the Library, or if the work is itself a library. The
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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
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1.1602 config-chain 1.1.12

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1.1603 perl-termreadkey 2.37-7.el8

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Term::ReadKey 2.36 - Change terminal modes, and perform non-blocking reads.

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This module, ReadKey, provides ioctl control for terminals and Win32 consoles so the input modes can be changed (thus allowing reads of a single character at a time), and also provides non-blocking reads of stdin, as well as several other terminal related features, including retrieval/modification of the screen size, and retrieval/modification of the control characters. Installation requires MakeMaker 3.5 or higher (MakeMaker 3.7 is included with perl 5.001, so now is a good time to upgrade if you haven't already.)

To install, unpack somewhere, type "perl Makefile.PL", and then "make test". If the compilation and the tests are successful, then change to root and run "make install".

As of 2.17 the interactive test has been removed as the default for the convenience of automated installers, CPAN-Testers and so on. The non interactive tests whilst confirming that the module has built correctly and has a good chance of working correctly cannot determine whether the effect as observed on the screen is correct so you might want to run:

perl -Mlib example/test.pl interactive
before you run 'make install'.

Also from 2.17 this module has to provide its own support for compilers that can't take function prototypes as with Perl 5.8.0 this last vestige of support for non-ANSI compilers will disappear. The requirement for

an ANSI C compiler has been present since Perl 5.005 so it is likely that at some point in the future this module will follow that requirement too.

If you have any difficulties with older Perl's please contact the maintainer.

The module has support for Win32 since version 2.10. Version 2.17 has been tested with ActivePerl build 623 and Visual Studio 6 and found to work as

expected, but do not be surprised if it fails with another compiler

or distribution. There are some limitations, with the ReadLine call being unavailable, and ReadKey possibly generating bad results if you are reading from multiple consoles, and key repeat is used. For Win32 users without a C compiler there is a precompiled version of this module available as a package for ActivePerl, it is probably a few versions behind the latest release but has been reported to work well.

VERY IMPORTANT: In 2.00, the ReadKey/ReadLine arguments changed. Now, if you want a call that is non-blocking and returns immediately if no character is waiting, please call it with -1, instead of 1. Positive arguments now indicate a timeout, so 1 would wait a second before timing out.

As older versions will accept -1, it is recommend to change all code that uses ReadMode.

The terminal mode function is controlled by the "ReadMode" function, which takes a single numeric argument, and an optional filehandle. This argument should be one of the following:

0: (Reset) Restore original settings.

1: (Cooked) Change to what is commonly the default mode, echo on, buffered, signals enabled, Xon/Xoff possibly enabled, and 8-bit mode possibly disabled.

2: (Cooked-Invisible) Same as 1, just with echo off. Nice for reading passwords.

3: (CBreak) Echo off, unbuffered, signals enabled, Xon/Xoff possibly enabled, and 8-bit mode possibly enabled.

4: (Raw) Echo off, unbuffered, signals disabled, Xon/Xoff disabled, and 8-bit mode possibly disabled.
5: (Really-Raw) Echo off, unbuffered, signals disabled, Xon/Xoff
   disabled, 8-bit mode enabled if parity permits, and CR to CR/LF
   translation turned off.

If you just need to read a key at a time, then modes 3 or 4 are probably
sufficient. Mode 4 is a tad more flexible, but needs a bit more work to
control. If you use ReadMode 3, then you should install a SIGINT or END
handler to reset the terminal (via ReadMode 0) if the user aborts the
program via ^C. (For any mode, an END handler consisting of "ReadMode 0" is
actually a good idea.)

Non-blocking support is provided via the ReadKey and ReadLine functions. If
they are passed no argument, or an argument of zero, they will act like a
normal getc(STDIN) or scalar(<STDIN>). If they are passed a negative
argument, then they will immediately return undef if no input is present. If
passed a positive argument, then they will wait until that time in seconds
has passed before returning undef. In most situations, you will probably
want to use "ReadKey -1".

Note that a non-blocking ReadLine probably won't do what you expect,
although it is perfectly predictable, and that the ReadMode will have to be
1 or 0 for it to make sense at all.

A routine is also provided to get the current terminal size,
"GetTerminalSize". This will either return a four value array containing the
width and height of the screen in characters and then in pixels, or nothing
( if the OS can't return that info). SetTerminalSize allows the stored
settings to be modified. Note that this does _not_ change the physical size
of the screen, it will only change the size reported by GetTerminalSize, and
other programs that check the terminal size in the same manner.

GetControlChars returns a hash containing all of the valid control
characters, such as ("INTERRUPT" => "\x3", etc.). SetControlChars takes an
array (or a hash) as a parameter that should consist of similar name/value
pairs and will modify the control character settings.

Note that it is entirely possible that there are portability problems with
the routines in ReadKey.xs. If you find any problems, including compilation
failures, or control characters not supported by Set/GetControlChars,
__please__ tell me about them, by mailing the maintainer at jns@gellyfish.co.uk,
or lastly contacting perl5-porters@perl.org. Any problems
will get fixed if at all possible, but that's not going to happen if I don't
know about them.

The code is available at https://github.com/jonathanstowe/TermReadKey so
as ever patches are kindly welcomed, especially for platforms such as
Windows that I am unable to test on.
Oh, you may also be interested in the Configure.pm module. It provides tools to make porting stuff easier -- calling the compiler, finding headers, etc. It contains documentation inside it, and you are welcome to use it in your own modules. If you make use of it, I'd be grateful for a message sent to the above address.

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1.1604 types-istanbul-reports 3.0.1

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1.1605 ws 7.5.5

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1.1606 libxtst 2:1.2.3 1

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1.1607 mysql-server 5.7.36-1debian10

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* Added generation of field number constants.

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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.

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* HP/UX 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().

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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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MySQL 5.7.28 (and later)

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Google SMP patch

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libevent

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This file defines the Default Unicode Collation Element Table
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Diagnostic weight ranges
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Secondary weight range: 0020..0192 (371)
Variant secondaries: 0159..015E (6)
Digit secondaries: 015F..0192 (52)
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Go support for Protocol Buffers - Google's data interchange format

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	no package engine
	no import (  
"bytes"
"encoding/json"
"strings"
"testing"
"time"

"github.com/docker/cli/cli/command/formatter"
"github.com/docker/cli/internal/licenseutils"
"github.com/docker/licensing/model"
"gotest.tools/v3/assert"
is "gotest.tools/v3/assert/cmp"
)

func TestSubscriptionContextWrite(t *testing.T) {
cases := []struct {
context  formatter.Context
expected string
}

// Errors
{
formatter.Context{Format: "{{InvalidFunction}}"},
"Template parsing error: template: :1: function "InvalidFunction" not defined
",
}.
{
formatter.Context{Format: "{{nil}}"},
"Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command
",
}.
// Table format
{
    formatter.Context{Format: NewSubscriptionsFormat("table", false)},
    `NUM     OWNER     PRODUCT ID     EXPIRES                  PRICING COMPONENTS
1        owner1    productid1    2020-01-01 10:00:00 +0000 UTC  compstring
2        owner2    productid2    2020-01-01 10:00:00 +0000 UTC  compstring
`,
},
{
    formatter.Context{Format: NewSubscriptionsFormat("table", true)},
    `1: License Name: name1
Quantity: 10 nodes
Expiration date: 2020-01-01
2: License Name: name2
Quantity: 20 nodes
Expiration date: 2020-01-01
`,
},
{
    formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
    `OWNER
owner1
owner2
`,
},
{
    formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", true)},
    `OWNER
owner1
owner2
`,
}
// Raw Format
{
    `license: id1
name: name1
owner: owner1
components: compstring
``license: id2
name: name2
owner: owner2
components: compstring
`,
},
{
    formatter.Context{Format: NewSubscriptionsFormat("raw", true)},
    `license: id1
license: id2
`
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num:   1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID:        "id1",
                Name:      "name1",
                ProductID: "productid1",
                Expires:   &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name:  "nodes",
                        Value: 10,
                    },
                }
            },
            ComponentsString: "compstring",
        },
        {
            Num:   2,
            Owner: "owner2",
            Subscription: model.Subscription{
                ID:        "id2",
                Name:      "name2",
                ProductID: "productid2",
                Expires:   &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name:  "nodes",
                        Value: 20,
                    },
                }
            },
            ComponentsString: "compstring",
        }
    }
}
func TestSubscriptionContextWriteJSON(t *testing.T) {
    expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num:   1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID:        "id1",
                Name:      "name1",
                ProductID: "productid1",
                Expires:   &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name:  "nodes",
                        Value: 10,
                    },
                },
                ComponentsString: "compstring",
            },
        },
        {
            Num:   2,
            Owner: "owner2",
            Subscription: model.Subscription{
                ID:        "id2",
                Name:      "name2",
                ProductID: "productid2",
                Expires:   &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name:  "nodes",
                        Value: 20,
                    },
                },
                ComponentsString: "compstring",
            },
        },
    }
    out := &bytes.Buffer{
        testCase.context.Output = out
    err := SubscriptionsWrite(testcase.context, subscriptions)
    if err != nil {
        assert.Error(t, err, testcase.expected)
    } else {
        assert.Check(t, is.Equal(testcase.expected, out.String()))
    }
}

ComponentsString: "compstring",
,
}
expectedJSONs := []map[string]interface{}{
{
"Owner": "owner1",
"ComponentsString": "compstring",
"Expires": "2020-01-01T10:00:00Z",
"DockerID": "",
"Eusa": nil,
"ID": "id1",
"Start": nil,
"Name": "name1",
"Num": float64(1),
"PricingComponents": []interface{}{
map[string]interface{}{
"name": "nodes",
"value": float64(10),
},
},
"ProductID": "productid1",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01",
},
{
"Owner": "owner2",
"ComponentsString": "compstring",
"Expires": "2020-01-01T10:00:00Z",
"DockerID": "",
"Eusa": nil,
"ID": "id2",
"Start": nil,
"Name": "name2",
"Num": float64(2),
"PricingComponents": []interface{}{
map[string]interface{}{
"name": "nodes",
"value": float64(20),
},
},
"ProductID": "productid2",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01",
},
}
func TestSubscriptionContextWriteJSONField(t *testing.T) {
    subscriptions := []licenseutils.LicenseDisplay{
        {Num: 1, Owner: "owner1"},
        {Num: 2, Owner: "owner2"},
    }
    out := &bytes.Buffer{}
    err := SubscriptionsWrite(formatter.Context{Format: "{json .Owner}"}, out, subscriptions)
    if err != nil {
        t.Fatal(err)
    }
    for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
        var s string
        if err := json.Unmarshal([]byte(line), &s); err != nil {
            t.Fatal(err)
        }
        assert.Check(t, is.Equal(subscriptions[i].Owner, s))
    }
}

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package engine

import (  
  "time"
  "github.com/docker/cli/cli/command/formatter"
  "github.com/docker/cli/internal/licenseutils"
  "github.com/docker/licensing/model"
)

const (  
defaultSubscriptionsTableFormat = "table  
  {{.Num}}	{{.Owner}}	{{.ProductID}}	{{.Expires}}	{{.ComponentsString}}"
  defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"
  numHeader               = "NUM"  
  ownerHeader             = "OWNER"  
  licenseNameHeader       = "NAME"  
  idHeader                = "ID"  
  dockerIDHeader          = "DOCKER ID"  
  productIDHeader         = "PRODUCT ID"  
)
productRatePlanHeader = "PRODUCT RATE PLAN"
productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
startHeader = "START"
expiresHeader = "EXPIRES"
stateHeader = "STATE"
eusaHeader = "EUSA"
pricingComponentsHeader = "PRICING COMPONENTS"

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
    switch source {
    case formatter.TableFormatKey:
        if quiet {
            return defaultSubscriptionsQuietFormat
        }
        return defaultSubscriptionsTableFormat
    case formatter.RawFormatKey:
        if quiet {
            return `license: {{.ID}}`
        }
        return `license: {{.ID}}\nname: {{.Name}}\nowner: {{.Owner}}\ncomponents: {{.ComponentsString}}\n`;
    }
    return formatter.Format(source)
}

// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
    render := func(format func(subContext formatter.SubContext) error) error {
        for _, sub := range subs {
            licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
            if err := format(licenseCtx); err != nil {
                return err
            }
        }
        return nil
    }
    licenseCtx := licenseContext{
        Header: map[string]string{
            "Num": numHeader,
            "Owner": ownerHeader,
            "Name": licenseNameHeader,
            "ID": idHeader,
            "DockerID": dockerIDHeader,
            "ProductID": productIDHeader,
            "ProductRatePlan": productRatePlanHeader,
            "ProductRatePlanID": productRatePlanIDHeader,
            "Start": startHeader,
        }
    }
    return render(licenseCtx)
}
"Expires": expiresHeader,
"State": stateHeader,
"Eusa": eusaHeader,
"ComponentsString": pricingComponentsHeader,
}
return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
formatter.HeaderContext
trunc bool
   licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON([]byte, error) {
return formatter.MarshalJSON(c)
}

func (c *licenseContext) Num() int {
return c.l.Num
}

func (c *licenseContext) Owner() string {
return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {
return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
return c.l.String()
}

func (c *licenseContext) Name() string {
return c.l.Name
}

func (c *licenseContext) ID() string {
return c.l.ID
}

func (c *licenseContext) DockerID() string {
return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
return c.l.ProductID
}
func (c *licenseContext) ProductRatePlan() string {
    return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
    return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
    return c.l.Expires
}

func (c *licenseContext) State() string {
    return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
    return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
    // Dereference the pricing component pointers in the pricing components
    // so it can be rendered properly with the template formatter

    var ret []model.SubscriptionPricingComponent
    for _, spc := range c.l.PricingComponents {
        if spc == nil {
            continue
        }
        ret = append(ret, *spc)
    }
    return ret
}

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package licensing

import (
    "context"
    "crypto/hmac"
    "crypto/sha256"
    "encoding/base64"
    "encoding/json"
    "fmt"
    "time"
    "github.com/docker/libtrust"
    "github.com/docker/licensing/lib/errors"
    "github.com/docker/licensing/lib/go-clientlib"
    "github.com/docker/licensing/model"
)

func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {
    url := c.baseURI
    url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)

    license := new(model.IssuedLicense)
    if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
        return nil, err
    }

    return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
    keyID := license.KeyID
    privateKey := license.PrivateKey
    authorization, err := c.getAuthorization(ctx, license)
    if err != nil {
        return nil, err
    }

    return authorization, err
}
// TODO: Mason - replace this parseJWS with a non libtrust lib
signature, err := libtrust.ParseJWS(authorization)
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license parse JWS failed")
}

keys, err := signature.Verify()
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license signature verification failed")
}

keyCnt := len(keys)
if keyCnt != 1 {
    err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
    return nil, errors.WithStack(err).With(errors.Fields{
        "key_id": keyID,
    })
}

key := keys[0]

if !c.recognizedSigningKey(key) {
    return nil, errors.New("unrecognized signing key")
}

payload, err := signature.Payload()
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "malformed signature payload")
}

checkRes := new(model.CheckResponse)
err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
"key_id": keyID,
})
}

return checkRes, nil
}

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if key.KeyID() == publicKey.KeyID() {
            return true
        }
    }
    return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
"key_id": license.KeyID,
}, "decoding license authorization failed")
    }
    return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly
// formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
    tokenBytes, err := base64.URLEncoding.DecodeString(token)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

generatedToken, err := generateToken(message, privateKey)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
if err != nil {
    return errors.Wrap(err, errors.Fields{"token": token})
}

if !hmac.Equal(tokenBytes, generatedBytes) {
    return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
}

return nil

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
    if err != nil {
        return ",", errors.Wrap(err, errors.Fields{"msg": message})
    }
    h := hmac.New(sha256.New, key)
    h.Write([]byte(message))
    return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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package model

import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed json blob.
type CheckResponse struct {
    Expiration time.Time `json:"expiration"
    Token string `json:"token"
    MaxEngines int `json:"maxEngines"
    ScanningEnabled bool `json:"scanningEnabled"
    Type string `json:"licenseType"
    Tier string `json:"tier"
}

// IssuedLicense represents an issued license
type IssuedLicense struct {
    KeyID string `json:"key_id"
    PrivateKey string `json:"private_key"
    Authorization string `json:"authorization"
}

// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
if l.KeyID == "" {
    return false, "empty key_id"
}

if l.PrivateKey == "" {
    return false, "empty private_key"
}

if l.Authorization == "" {
    return false, "empty authorization"
}

return true, ""

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

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

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

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

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

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

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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.

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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 compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse
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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:

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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 a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. 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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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:

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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!

1.1618 aproba 2.0.0

1.1618.1 Available under license :

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1.1619 libatm 1:2.5.1 2build1
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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the 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 a program 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.

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

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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.

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

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

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.1634 python-requests 2.20.0-2.1.el8_1

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1.1638 github.com/josharian/native 0.0.0-20200817173448-b6b71def0850
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1.1640 libcom-err 1.45.6-1.el8

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

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#
# 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)
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)

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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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)
 */

Open Source Used In Intersight Kubernetes Service 1.0.15 18648
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

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-
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Theodore Ts'o
23-June-2007

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This package was added to the e2fsprogs debian source package by 
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Gadi Oxman, August 1995

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This package was debianized by Max Kellermann <max@duempel.org> on Wed Sep 20 22:57:38 CEST 2006

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

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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.)

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

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

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

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

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.

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

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

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

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1.1646 libxdata 2:1.6.7 1

1.1646.1 Available under license:

No license file was found, but licenses were detected in source scan.

--- libx11-1.6.7.orig/ChangeLog
+++ libx11-1.6.7/ChangeLog
@@ -1,60 +1,3 @@
-commit f3c978476e0be6813268af494efb7ac507451116
-Author: Matt Turner <mattst88@gmail.com>
-Date:   Tue Oct 9 10:26:05 2018 -0400
-
-libX11 1.6.7
-
-Signed-off-by: Matt Turner <mattst88@gmail.com>
-
-commit 823a0f8a820247b6c1e092f679b49cbdc2ea5c95
-Author: Michel Dänzer <michel.daenzer@amd.com>
-Date:   Fri Sep 28 17:24:17 2018 +0200
-
-poll_for_event: Allow using xcb_poll_for_queued_event
-
-It avoids reading from the display connection again in cases where that
- was already done.
- Suggested-by: Uli Schlachter <psychon@znc.in>
- Reviewed-by: Uli Schlachter <psychon@znc.in>
- commit 406afe4b0f1b655c0db19bbcc9a0c48da9a46acf5
  - Author: Michel Dänzer <michel.daenzer@amd.com>
  - Date: Tue Sep 25 17:10:58 2018 +0200
- poll_for_response: Call poll_for_event again if xcb_poll_for_reply fails
- If xcb_poll_for_reply fails to find a reply, poll_for_response would
  always return NULL. However, xcb_poll_for_reply may have read events
  from the display connection while looking for a reply. In that case,
  returning NULL from poll_for_response is wrong and can result in the
  client hanging, e.g. because it returns to waiting for the display
  connection file descriptor becoming readable after XPending incorrectly
  returned 0 pending events.
- The solution is to call poll_for_event again after xcb_poll_for_reply
  returned 0. This will return the first of any events read by
  xcb_poll_for_reply.
- Fixes issue #79.
- Reported-by: Yuxuan Shui <yshuiv7@gmail.com>
- Bugzilla: https://bugs.freedesktop.org/108008
- Bugzilla: https://bugs.freedesktop.org/107992
- Reviewed-by: Adam Jackson <ajax@redhat.com>
- commit d0416863d5bf75af54ce81f6c30d4c1476b5e04f
  - Author: Bhavi Dhingra <b.dhingra@samsung.com>
  - Date: Mon Sep 28 08:33:40 2015 +0000
- XcmsLookupColor: fully initialize XColor structs passed to _XColor_to_XcmsRGB
- Fixes https://gitlab.freedesktop.org/xorg/lib/libx11/issues/44
  aka https://bugs.freedesktop.org/show_bug.cgi?id=92154
- Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
- Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
- commit 733f64bfeb311c1d040b2f751bfdef9e9d0f89ef
  - Author: Matthieu Herrb <matthieu@herrb.eu>
  - Date: Tue Aug 21 16:54:50 2018 +0200
  - Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
  - Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
+Notes:
+    CVE-2013-7439
+
commit 3cdb6c3a1646f670afa03d424ec12ac418181d1e
Author: Quentin Glidic <sardemff7+git@sardemff7.net>
Date:   Tue Jan 15 21:07:17 2013 +0000
--- libx11-1.6.7.orig/autogen.sh
+++ libx11-1.6.7/autogen.sh
@@ -0,0 +1,17 @@
+#! /bin/sh
+
srcdir=`dirname "$0"`
+test -z "$srcdir" && srcdir=.
+ORIGDIR=`pwd`
+cd "$srcdir"
+
+autoreconf -v --install || exit 1
+cd "$SORIGDIR" || exit $?
+
git config --local --get format.subjectPrefix >/dev/null 2>&1 ||
+    git config --local format.subjectPrefix "PATCH libX11"
+
+if test -z "$NOCONFIGURE"; then
+    exec "$srcdir"/configure "$@
+fi
--- libx11-1.6.7.orig/debian/README.source
+++ libx11-1.6.7/debian/README.source
@@ -0,0 +1,55 @@
+------------------------------------------------------
+Quick Guide To Patching This Package For The Impatient
+------------------------------------------------------
+
+1. Make sure you have quilt installed
+2. Unpack the package as usual with "dpkg-source -x"
+3. Run the "patch" target in debian/rules
+4. Create a new patch with "quilt new" (see quilt(1))
+5. Edit all the files you want to include in the patch with "quilt edit"
+   (see quilt(1)).
+6. Write the patch with "quilt refresh" (see quilt(1))
+7. Run the "clean" target in debian/rules
+
+Alternatively, instead of using quilt directly, you can drop the patch in to
+debian/patches and add the name of the patch to debian/patches/series.
+
+While building from git, dpkg-source can complain about symlinks vs.
+normal files mismatches. To work around this issue, before uploading,
and without committing:
+
+ find -type l | while read dest; do src=$(readlink -f $dest); rm $dest; cp $src $dest; done
+
+------------------------------------
+Guide To The X Strike Force Packages
+------------------------------------
+
+The X Strike Force team maintains X packages in git repositories on
+git.debian.org in the pkg-xorg subdirectory. Most upstream packages
+are actually maintained in git repositories as well, so they often
+just need to be pulled into git.debian.org in a "upstream-*" branch.
+Otherwise, the upstream sources are manually installed in the Debian
+git repository.
+
+The .orig.tar.gz upstream source file could be generated using this
+"upstream-*" branch in the Debian git repository but it is actually
+copied from upstream tarballs directly.
+
+Due to X.org being highly modular, packaging all X.org applications
+as their own independent packages would have created too many Debian
+packages. For this reason, some X.org applications have been grouped
+into larger packages: xutils, xutils-dev, x11-apps, x11-session-utils,
+x11-utils, x11-xf86-utils, x11-xcb-utils, x11-xserver-utils.
+Most packages, including the X.org server itself and all libraries
+and drivers are, however maintained independently.
+
+The Debian packaging is added by creating the "debian-*" git branch
+which contains the aforementioned "upstream-*" branch plus the debian/
+repository files.
+When a patch has to be applied to the Debian package, two solutions
+are involved:
+* If the patch is available in one of the upstream branches, it
+  may be git'cherry-picked into the Debian repository. In this
+  case, it appears directly in the .diff.gz.
+* Otherwise, the patch is added to debian/patches/ which is managed
+  with quilt as documented in /usr/share/doc/quilt/README.source.
--- libx11-1.6.7.orig/debian/changelog
+++ libx11-1.6.7/debian/changelog
@@ -0,0 +1,1002 @@
+libx11 (2:1.6.7-1) unstable; urgency=medium
+
+ * New upstream release.
+ * fix video freezing in firefox with amdgpu
+ * upstream: Add key from Matt Turner.
+
+ -- Timo Aaltonen <tjaalton@debian.org>  Tue, 09 Oct 2018 18:03:26 +0300
+libx11 (2:1.6.6-1) unstable; urgency=medium
+
+ * New upstream release.
+ * Move libx11-doc from Recommends to Suggests (Closes: #648443).
+ * Add debian/README.source
+ * Set source format to 1.0.
+ * Bump standards version to 4.2.0.
+
+ -- Andreas Boll <aboll@debian.org>  Wed, 22 Aug 2018 21:22:31 +0200
+
+libx11 (2:1.6.5-1) unstable; urgency=medium
+
+ * Add Matt Turner's key to d/u/signing-key.asc
+ * New upstream release.
+ * Update VCS metadata for move to salsa.
+
+ -- Julien Cristau <jcristau@debian.org>  Sun, 18 Mar 2018 16:22:50 +0100
+
+libx11 (2:1.6.4-3) unstable; urgency=high
+
+ [ Emilio Pozuelo Monfort ]
+ * debian/libx11-6.symbols: use arch-bits=64 rather than listing all
+    64-bits architectures, which is not future-proof.
+
+ [ Julien Cristau ]
+ * Fix two regressions introduced in 2:1.6.4-1:
+  + Fix wrong Xfree in XListFonts failure path
+  + Revert cs_CZ.UTF-8 XLC_LOCALE to en_US.UTF-8 (closes: #847345)
+ * Build-depend on dpkg-dev 1.18.0 for arch-bits support in dpkg-gensymbols.
+
+ -- Julien Cristau <jcristau@debian.org>  Sat, 28 Jan 2017 00:06:50 +0100
+
+libx11 (2:1.6.4-2) unstable; urgency=medium
+
+ * Fix arch:all-only build.
+
+ -- Emilio Pozuelo Monfort <pochu@debian.org>  Tue, 06 Dec 2016 09:47:08 +0100
+
+libx11 (2:1.6.4-1) unstable; urgency=medium
+
+ [ Andreas Boll ]
+ * New upstream release.
+ - Fixes CVE-2016-7942 and CVE-2016-7943 (Closes: #840439).
+ * Bump libxcb1-dev build-dep to 1.11.1 per configure.ac.
+ * Update a bunch of URLs in packaging to https.
+
+ [ Julien Cristau ]

Open Source Used in Intersight Kubernetes Service 1.0.15 18730
* Update d/upstream/signing-key.asc with Matthieu Herrb's key.

[ Emilio Pozuelo Monfort ]
* Cherry-pick upstream commit 20a3f99 to plug a memory leak in the
  security fix.
* Bump debhelper compat to 10.
* Switch from old debhelper to dh.
* Drop workaround for old tarballs not shipping some files.
* Switch to -dbgsym packages.
* Bump Standards-Version to 3.9.8, no changes.
* Drop libtool and automake build dependencies, debhelper takes
  care of that for us now.

-- Emilio Pozuelo Monfort <pochu@debian.org>  Tue, 06 Dec 2016 01:38:30 +0100

+libx11 (2:1.6.3-1) unstable; urgency=medium

+ * New upstream release.
+ * Drop 006_tailor_pt_BR.UTF-8_Compose.diff, no longer necessary.
+ * Rediff 003_recognize_glibc_2.3.2_locale_names.diff.
+ * Let uscan verify tarball signatures.

-- Julien Cristau <jcristau@debian.org>  Thu, 30 Apr 2015 22:31:01 +0200

+libx11 (2:1.6.2-3) unstable; urgency=medium

+ [ Julien Cristau ]
+ * libx11-6.symbols: yet another 64bit arch (ppc64el). Closes: #749728.

-- Cyril Brulebois <kibi@debian.org>  Mon, 18 Aug 2014 01:39:32 +0200

+libx11 (2:1.6.2-2) unstable; urgency=low

+ [ Julien Cristau ]
+ * Yet more 64 bit archs in symbols file: mips64{,el} (closes: #722088).
+ * Remove Cyril Brulebois from Uploaders.
+ * Bump debhelper compat level from 5 to 7.
+ * Switch from xsfbs.mk to standard quilt patching.

+ [ Colin Watson ]
+ * Declare libx11-xcb-dev Multi-Arch: same (closes: #727231).

-- Julien Cristau <jcristau@debian.org>  Sun, 11 May 2014 18:04:23 +0200

+libx11 (2:1.6.2-1) unstable; urgency=low

+ [ Julien Cristau ]
+ * So apparently the 64-bit powerpc port is called ppc64 (closes: #613820).
Open Source Used In Intersight Kubernetes Service 1.0.15  18732

[ Maarten Lankhorst ]
* New upstream release.

-- Maarten Lankhorst <maarten.lankhorst@ubuntu.com>  Thu, 03 Oct 2013 09:46:46 +0200
+ libx11 (2:1.6.1-1) unstable; urgency=low

[ Julien Cristau ]
* New upstream release
+ * libx11-6.symbols: add powerpc64 to the list of 64bit archs (closes: #613820)

[ Wookey ]
+ * Update symbols file for arm64

-- Julien Cristau <jcristau@debian.org>  Mon, 12 Aug 2013 17:55:45 +0200
+ libx11 (2:1.6.0-1) unstable; urgency=low

+ * Bump libx11-dev's x11proto-core-dev dependency to 7.0.17 for _X_NORETURN
  (closes: #649866).
+ * New upstream release
  + - Fix unbounded recursion when reading resource files (closes: #145048)
  + - XmbLookupString man page no longer warns (closes: #300819)
  + - Fix build with automake 1.13 (closes: #710467)
+ * Update 003_recognize_glibc_2.3.2_locale_names.diff.
+ * Update 006_tailor_pt_BR.UTF-8_Compose.diff.
+ * Refresh 008_remove_ko_Compose.diff.
+ * Update 009_remove_th_Compose.diff.
+ * Refresh 015_russian_locale_alias.diff.
+ * Bump shlibs and symbols for _XEatDataWords.
+ * Add new locales to configure.ac so they can get installed.
+ * Disable silent rules.
+ * Use dpkg-buildflags.

-- Cyril Brulebois <kibi@debian.org>  Sat, 16 Jun 2012 20:32:52 +0000
+libx11 (2:1.4.99.901-2) unstable; urgency=low
+
+ * Add AC_CHECK_DECL(issetugid) to fix FTBFS on kfreebsd (closes: #669670).
+
+ -- Julien Cristau <jcristau@debian.org>  Sun, 29 Apr 2012 16:55:39 +0200
+
+libx11 (2:1.4.99.901-1) unstable; urgency=low
+
+ * New upstream release candidate (1.5 RC1)
+ * XQueryColors: split a request into multiple requests if necessary
+ (closes: #278984)
+ * Revert "xcb: Add TCP fallback" (closes: #659558)
+ * Don't require (fake)root for debian/rules clean.
+ * Drop xorg-sgml-doctools dependency from libx11-dev, the css is now
+ included in the html files directly. Also add Breaks in addition to the
+ Replaces on old libx11-dev.
+ * Add build-indep and build-arch targets, don't build specs in build-arch.
+ * Rediff 006_tailor_pt_BR.UTF-8_Compose.diff and
+ 015_russian_locale_alias.diff.
+ * Upload to unstable.
+
+ -- Julien Cristau <jcristau@debian.org>  Thu, 19 Apr 2012 22:58:30 +0200
+
+libx11 (2:1.4.99.1-1) experimental; urgency=low
+
+ 
+ [ Julien Cristau ]
+ * Move xorg-sgml-doctools dependency from -dev to -doc.
+ * Move libx11-doc from section libdevel to doc (closes: #648706).
+
+ [ Cyril Brulebois ]
+ * New upstream release candidate:
+ * Bug fixes, specs clean-up, new compose sequences.
+ * Add RequestSized.
+ * Bump xorg-sgml-doctools build-dep.
+ * Refresh patch:
+ * 006_tailor_pt_BR.UTF-8_Compose.diff
+ * Add symbol:
+ * _XGetRequest@Base
+ * Bump shlibs accordingly, for the udeb.
+
+ -- Cyril Brulebois <kibi@debian.org>  Thu, 22 Dec 2011 12:58:15 +0100
+
+libx11 (2:1.4.4-4) unstable; urgency=low
+
+ * debian/rules: since the documentation is moved to libx11-doc, the
+ exception handling for libx11-xcb-dev needs to also look at libx11-doc,
+ not libx11-dev.
+ -- Steve Langasek <vorlon@debian.org> Fri, 11 Nov 2011 06:51:51 -0800
+ libx11 (2:1.4.4-3) unstable; urgency=low
+ * Split documentation out from libx11-dev into a separate libx11-doc
+ package, so that libx11-dev can be multiarch co-installable.
+ 
+ -- Steve Langasek <vorlon@debian.org> Wed, 09 Nov 2011 12:13:26 -0800
+ libx11 (2:1.4.4-2) unstable; urgency=low
+ [ Colin Watson ]
+ * Fix cross-compilation breakage due to a typo in the multiarch patch
+ (closes: #642402)
+ 
+ -- Julien Cristau <jcristau@debian.org> Thu, 22 Sep 2011 17:42:39 +0200
+ libx11 (2:1.4.4-1) unstable; urgency=low
+ * New upstream release.
+ * Drop xorg.css from libx11-dev, depend on xorg-sgml-doctools instead.
+ 
+ -- Julien Cristau <jcristau@debian.org> Sat, 30 Jul 2011 22:14:56 +0200
+ libx11 (2:1.4.3-3) unstable; urgency=low
+ [ Julien Cristau ]
+ * Add lintian override for the libx11-private dep in libx11-6.symbols.
+ [ Cyril Brulebois ]
+ * Fix the FTBFS on s390x (Closes: #635692): Add s390x to the list of
+ 64-bit architectures in the symbols file. Thanks, Aurélien Jarno!
+ 
+ -- Cyril Brulebois <kibi@debian.org> Thu, 28 Jul 2011 15:08:36 +0200
+ libx11 (2:1.4.3-2) unstable; urgency=low
+ * Team upload.
+ 
+ [ Steve Langasek ]
+ * Build for multiarch.
+ 
+ [ Julien Cristau ]
+ * Bump Standards-Version to 3.9.2.
+ * Properly clean up libtool m4 files.
+ 
+ -- Julien Cristau <jcristau@debian.org> Sat, 11 Jun 2011 14:06:01 +0200
+
+libx11 (2:1.4.3-1) unstable; urgency=low
+
+ * New upstream release:
+   - Add Sinhala support.
+   - Add Docbook external references support.
+   * Bump x11proto-core-dev build-dep to make defining XK_SINHALA useful.
+   * Bump xutils-dev build-dep for newer macros.
+
+-- Cyril Brulebois <kibi@debian.org> Tue, 05 Apr 2011 23:42:05 +0200
+
+libx11 (2:1.4.2-1) unstable; urgency=low
+
+ [ Timo Aaltonen ]
+ * New upstream release. (closes: #463159)
+
+ [ Cyril Brulebois ]
+ * Bump x11proto-xf86bigfont-dev build-dep.
+
+-- Cyril Brulebois <kibi@debian.org> Sat, 26 Mar 2011 00:36:43 +0100
+
+libx11 (2:1.4.1-5) unstable; urgency=low
+
+ * Mark x11-data Multi-Arch: foreign.
+
+-- Steve Langasek <vorlon@debian.org> Mon, 21 Feb 2011 20:01:35 -0800
+
+libx11 (2:1.4.1-4) unstable; urgency=low
+
+ * Bump Standards-Version to 3.9.1.
+ * specs were converted from groff to xml, so we can ship the html version
+   now.
+ * Drop Build-Dependencies on groff/ghostscript/... since the docs were
+   converted to xml.
+
+-- Julien Cristau <jcristau@debian.org> Mon, 07 Feb 2011 12:36:09 +0100
+
+libx11 (2:1.4.1-3) unstable; urgency=low
+
+ * Remove David Nusinow and Brice Goglin from Uploaders. Thanks for all your
+   work!
+ * Drop Conflicts on sarge-era xlibs-data, Replaces on sarge-era libx11-6,
+ * Pre-Depends on x11-common (needed for upgrades from sarge), and Conflicts
+   against pre-XCB libx11-6.
+ * Wrap debian/control Depends fields.
+ * Upload to unstable.
+
+-- Julien Cristau <jcristau@debian.org> Sun, 06 Feb 2011 22:42:28 +0100
+
+libx11 (2:1.4.1-2) experimental; urgency=low
+
+ * Make libx11-data break earlier versions of libx11-6, since those rely
+ on XKeysymDB, resulting in a non-functional keyboard and plenty of
+ such messages: “Internal error: Could not resolve keysym *”.
+
+ -- Cyril Brulebois <kibi@debian.org> Tue, 18 Jan 2011 18:47:22 +0100
+
+libx11 (2:1.4.1-1) experimental; urgency=low
+
+ [ Julien Cristau ]
+ * New upstream release.
+ - lots of fixes for multithreaded apps
+ - X11 users can now compose anarchism (closes: #555938)
+
+ [ Robert Hooker ]
+ * New upstream release.
+ * Don't install unshipped XKeysymDB.
+ * Bump xutils-dev build-dep to 1:7.5+5 for util-macros 1.11 requirement.
+
+ [ Cyril Brulebois ]
+ * New new (new) upstream release.
+ * As a temporary measure, add 020_keep_xorg_css.diff to avoid having to
+ depend on xorg-sgml-doctools just for xorg.css.
+ * Refresh all patches.
+ * Some functions got hidden by upstream in aebbf36238, since “none of
+ the functions in Xprivate.h should have any callers outside of Xlib,
+ by definition”. As a consequence, drop the following symbols from
+ libx11-6.symbols:
+ - _XIDHandler@Base
+ - _XSetPrivSyncFunction@Base
+ - _XSetSeqSyncFunction@Base
+ * Drop obsolete --enable-man-pages=3 from configure flags.
+ * Pass --with-xmlto and --without-fop for the documentation generation.
+ * Add xmlto, xorg-sgml-doctools, w3m build-dep accordingly.
+ * Remove *.xml before running dh_install, there's no point in shipping
+ those files.
+ * Update debian/copyright from upstream COPYING.
+
+ -- Cyril Brulebois <kibi@debian.org> Thu, 13 Jan 2011 01:18:40 +0100
+
+libx11 (2:1.3.3-3) unstable; urgency=low
+
+ [ Julien Cristau ]
+ * Drop manpage from libx11-6-udeb.
+ * Don't install X11 locale data in the udeb. The installer uses only gtk
+ apps so this is useless (and big).
[Cyril Brulebois]
+ Cherry-pick patch from upstream to run user's synchandlers as well as any internal synchandlers: 75ea8c3793. This fixes xnee issues when RECORD extension is enabled (Closes: #536491; LP: #378648).
+ Merge xsfbs/debian-unstable to fix double autoreconf runs.

-- Cyril Brulebois <kibi@debian.org> Tue, 13 Apr 2010 14:46:16 +0200
+libx11 (2:1.3.3-2) unstable; urgency=low

[Julien Cristau]
+ Update debian/copyright from upstream COPYING.
+ Remove myself from Uploaders

[Brice Goglin]
+ Remove Jamey Sharp and Josh Triplett from Uploaders, closes: #568274.

[Cyril Brulebois]
+ Add udeb needed for the graphical installer: libx11-6-udeb.
+ Bump the B-D on libxcb1-dev to ensure libx11-6-udeb gets a dependency on libxcb1-udeb.
+ Bump Standards-Version from 3.8.3 to 3.8.4 (no changes needed).
+ Add myself to Uploaders.

-- Cyril Brulebois <kibi@debian.org> Thu, 11 Mar 2010 01:06:06 +0100
+libx11 (2:1.3.3-1) unstable; urgency=low

* xtrans has been fixed to not make us export a weak in6addr_any. Adjust libx11-6.symbols accordingly (closes: #560648).
* Rename the build directory to not include DEB_BUILD_GNU_TYPE for no good reason. Thanks, Colin Watson!
* Update symbols file for sparc64 (closes: #560400). Thanks, Aurélien Jarno!
* New upstream release
  + xfix XCopyGC argument order in manpage (LP: #408337)
  + Bump util-s-dev build-dep for new util-macros.
  + Install the Compose man page in libx11-data.
  + Rediff patches 003_recognize_glibc_2.3.2_locale_names.diff,
  007_iso8859-15_Compose_fix.diff, 008_remove_lo_Compose.diff,
  009_remove_th_Compose.diff, 015_russian_locale_alias.diff.
  * libx11-6.symbols: add xlocaledir, made non-static in 1.3.3.

-- Julien Cristau <jcristau@debian.org> Sat, 16 Jan 2010 22:47:32 +0000
+libx11 (2:1.3.2-1) unstable; urgency=low

[Julien Cristau]
* libx11-6.symbols: _XkbReadBufferCopy32, _XkbReadCopyData32 and _XkbWriteCopyData32 are only present on 64-bit architectures.
* Unmark the following symbols as private, they're being used:
  - _XRegisterFilterByMask
  - _XRegisterFilterByType
  - _XUnregisterFilter
  - _XInitKeysymDB
  - _Xevent_to_mask
* Build the Xlib specs and install them in libx11-dev.
* Upload to unstable.

[ Timo Aaltonen ]
* New upstream release.
* Bump the build-dep on xutils-dev (>= 1:7.5~1).

-- Julien Cristau <jcristau@debian.org>  Mon, 23 Nov 2009 20:50:03 +0100

libx11 (2:1.3-1) experimental; urgency=low
* libx11-6.symbols: mark some more stuff as private.
* libx11-6.symbols: add kfreebsd-amd64 tag for 64-bit symbols.
* Run dpkg-gensymbols with -c4 to catch mismatches between the symbols file and the library.
* New upstream release.
* Cherry-pick patch from upstream git to avoid an error in configure due to underquoting.
* Fix 006_tailor_pt_BR.UTF-8_Compose.diff to apply on new upstream.
* Bump Standards-Version to 3.8.3.

-- Julien Cristau <jcristau@debian.org>  Mon, 12 Oct 2009 15:28:23 +0200

libx11 (2:1.2.99.901-1) experimental; urgency=low
* Drop 002_arm_abi_brain_damage.diff, the old ABI arm port is gone.
* Use a glob in libx11-6.install and libx11-xcb1.install.
* Add tentative symbols file for libX11.so.6. Many private symbols still included.
* Build-depend on dpkg 1.15.3, to get support for tags in the symbols file.
* New upstream release candidate
* Add {left,right}wards arrow to en_US.UTF-8 compose table
  (closes: #532117). Thanks, Filippo Giunchedi!

-- Julien Cristau <jcristau@debian.org>  Wed, 05 Aug 2009 17:04:28 +0200
+libx11 (2:1.2.2-1) unstable; urgency=low
+
+ [ Julien Cristau ]
+ * Move dbg packages to new debug section.
+ * Kill preinst which handled upgrades from early Ubuntu versions (before breezy). This is long obsolete.
+
+ [ Brice Goglin ]
+ * New upstream release.
+ * Fix fi_FI.UTF-8, closes: #519474.
+ * Fix thai XIM filtering keys when NumLock/CapsLock is on, closes: #443800.
+ * Add myself to Uploaders.
+
+ -- Brice Goglin <bgoglin@debian.org> Sun, 19 Jul 2009 19:21:16 +0200
+
+libx11 (2:1.2.1-1) unstable; urgency=low
+
+ * New upstream release.
+ * fixes fi_FI.UTF-8 locale (closes: #519474)
+ * adds sr_RS locale (closes: #507940)
+ * adds hu_HU.utf8 locale alias (closes: #407573)
+ * Compose entries for some standard mathematical operators
+ (closes: #411734)
+ * Patch 012_ru_RU_UTF-8_XLC_LOCALE.diff removed, applied upstream.
+ * Update patches 003_recognize_glibc_2.3.2_locale_names.diff, 006_tailor_pt_BR.UTF-8_Compose.diff and 015_russian_locale_alias.diff.
+ * 003_recognize_glibc_2.3.2_locale_names.diff: don't comment out the microsoft-cp* entries from compose.dir (closes: #511354). Thanks, Sergei Golovan!
+ * 003_recognize_glibc_2.3.2_locale_names.diff: don't comment out the eo_XX entries from compose.dir and locale.dir (closes: #479058). Thanks, Luiz Portella!
+ * 009_remove_th_Compose.diff: new patch, comment out the th_TH.UTF-8 entry from compose.dir, to allow Thai XIM as default for X apps (closes: #520509). Thanks, Theppitak Karoonboonyanan!
+
+ -- Julien Cristau <jcristau@debian.org> Wed, 08 Apr 2009 12:31:21 +0100
+
+libx11 (2:1.2.1-1) unstable; urgency=low
+
+ * New upstream release.
+ * Remove obsolete ld.so.conf handling from libx11-6 postinst.
+ * Run autoreconf on build; add build-deps on automake, libtool, xutils-dev.
+ * Handle parallel builds.
+ * Refresh patches 003_recognize_glibc_2.3.2_locale_names.diff and 012_ru_RU_UTF-8_XLC_LOCALE.diff.
+ * Use a wildcard for usr/share/X11/locale instead of listing every single file.
libx11 (2:1.1.99.2-1) experimental; urgency=low
+ * New upstream release.
+ * Use new xcb socket handoff mechanism, update (build-)dependencies.
+ * Refresh patches.
+ * Build-dep on x11proto-core-dev >= 7.0.13.

libx11 (2:1.1.5-2) unstable; urgency=medium
+ * Cherry-picked from upstream git: Fix an XCB leak when the client has a non-fatal error handler.

libx11 (2:1.1.5-1) unstable; urgency=low
+ [ Brice Goglin ]
+ * Add upstream URL to debian/copyright.
+ * Add a link to www.X.org and a reference to the upstream module in the long description.
+ [ Timo Aaltonen ]
+ * New upstream release.
+ * adds missing <cedilla> Compose sequences (closes: #394068)
+ [ Julien Cristau ]
+ * 014_add_Khmer_digraphs.diff: remove, applied upstream
+ * 006_tailor_pt_BR.UTF-8_Compose.diff: update

libx11 (2:1.1.4-2) unstable; urgency=low
+ * Drop Pre-Depends on x11-common from libx11-6, libx11-data and libx11-xcb1.
+ * Pull from upstream libX11-1.1-branch
+ * fixes Compose sequences for finnish keyboards (closes: #467142)
+ * interrobang has been added to the en_US.UTF-8 Compose file
+ (closes: #300160)
+ * Update patch 006_tailor_pt_BR.UTF-8_Compose.diff, refresh others.
+ * Drop the NEWS entry about sun java. sun-java6 is now fixed, and libxcb doesn’t abort() anymore on the locking error.
+ * (Finally) upload Xlib/XCB to unstable.
**Open Source Used In Intersight Kubernetes Service 1.0.15**

**18741**

+ -- Julien Cristau <jcristau@debian.org> Mon, 09 Jun 2008 16:27:23 +0200
+ 
+libx11 (2:1.1.4-1) experimental; urgency=low
+ 
+ [ Timo Aaltonen ]
+ * control: libx11-data Replaces old versions of libx11-6 to enable
+ upgrades from Ubuntu 6.06.
+ 
+ [ Julien Cristau ]
+ * New upstream release
+ + fixes XIM hang when switching input contexts (closes: #437437)
+ * Update patch stack:
+ + 003_recognize_glibc_2.3.2_locale_names.diff: fixup; drop the hunk
+ under #ifdef WIN32, as I don't care enough to fix it
+ + 004_en_US.UTF-8_Compose_fix_Unicode_plane_1.diff: remove, applied
+ upstream
+ + 005_Compose_fix_latin1_UTF8.diff: remove, applied upstream
+ + 006_tailor_pt_BR.UTF-8_Compose.diff: fixup
+ + 007_iso8859-15_Compose_fix.diff: refresh
+ + 008_remove_ko_Compose.diff: refresh
+ + 009_iso8859-15_Compose_Eurosign.diff: remove, applied upstream
+ + 012_ru_RU_UTF-8_XLC_LOCALE.diff: refresh
+ + 014_add_Khmer_digraphs.diff: fixup
+ + 015_russian_locale_alias.diff: refresh
+ * Bump Standards-Version to 3.7.3 (no changes).
+ * Drop XS- prefix from Vcs-* control fields.
+ * Fix malformed trailer line in libx11-6.NEWS (thanks, lintian).
+ 
+ -- Julien Cristau <jcristau@debian.org> Sat, 08 Mar 2008 03:13:07 +0100
+ 
+libx11 (2:1.1.3-1) experimental; urgency=low
+ 
+ [ Julian Cristau ]
+ * New upstream release.
+ + Fix locking in _XimGetWindowEventmask (closes: #427296).
+ + fix XGetMotionEvents arguments order (closes: #431421).
+ + XGetCommand(3) clarified (closes: #133348).
+ + XrmCombineDatabase(3) fixed (closes: #393434).
+ * Install the upstream NEWS file in libx11-6 in addition to the git
+ changelog.
+ * Use binary:Version instead of Source-Version in debian/control.
+ 
+ [ Josh Triplett ]
+ * Expand the description of the problem with Sun Java in libx11-6.NEWS.
+ 
+ -- Julien Cristau <jcristau@debian.org> Thu, 02 Aug 2007 04:13:46 +0200
+ 
+libx11 (2:1.1.2-1) experimental; urgency=low
+ [ Brice Goglin ]
+ * Drop -DLIBXCURSOR from CFLAGS since upstream default is now correct
+  (closes: #392618).
+ * Add en_DK.ISO-8859-15 to 003_recognize_glibc_2.3.2_locale_names.diff
+  Thanks Kaare Hviid. (closes: #419192).
+
+ [ Julien Cristau ]
+ * Add XS-Vcs-Git and XS-Vcs-Browser in debian/control.
+ * New upstream release:
+  + typo in XRecolorCursor.man fixed, closes: #225839;
+  + XRegisterIMInstantiateCallback manpage fixed, closes: #232133;
+  + XGetVisualInfo manpage fixed, closes: 399094;
+  + greek Compose file updated, patch 016_greek_polytonic_Compose.diff
+   dropped;
+  + file descriptor leak in modules/im/ximcp/imLcPrs.c:parseline() fixed,
+   patch 021_compose_fclose.diff dropped;
+ * Add a watch file.
+ * Don't run dh_install with --list-missing in binary-indep, there are too
+   many false positives for it to be useful.
+ * Document workarounds for sun-java5-bin and sun-java6-bin in libx11-6.NEWS.
+ * Strip all packages, not just the shared libs.
+
+ -- Julien Cristau <jcristau@debian.org>  Wed, 06 Jun 2007 04:46:09 +0200
+
+libx11 (2:1.1.1-1) experimental; urgency=low
+
+ [ Michel Dänzer ]
+ * libx11-dev Depends: libxcb-xlib0-dev, because x11.pc references xcb-xlib
+  (closes: #410117).
+
+ [ Julien Cristau ]
+ * New upstream release.
+ * Install upstream ChangeLog.
+ * libx11-dev doesn't seem to need to depend on libxext-dev
+  (closes: #366676).
+ * Use dh_installman in debian/rules to replace ".so" links with symlinks.
+
+ -- Julien Cristau <jcristau@debian.org>  Fri,  9 Feb 2007 01:17:05 +0100
+
+libx11 (2:1.1.2-1) experimental; urgency=low
+
+ [ Josh Triplett ]
+ * Include some upstream post-1.1 fixes in debian/patches:
+  * "Bug #9153: Fix access to freed memory."
+  * "Bug #9154: Always process an event for _XReadEvents, even if an error
+   occurs"; fixes an assertion failure, first observed with xcompmgr.
+ "Debian bug #354315: Clarify return value in XGetWindowAttributes man
+ page" (closes: 354315)
+ * Fix override discrepancies: library packages go in libs, -dbg and -dev
+ packages go in libdevel. Fix for both the libx11 packages and the new
+ libx11-xcb packages.
+
+ -- Josh Triplett <josh@freedesktop.org> Sat, 25 Nov 2006 14:37:58 -0800
+ +libx11 (2:1.1-1) experimental; urgency=low
+
+ [ Josh Triplett, Jamey Sharp ]
+ * New upstream version.
+ * Add ourselves to Uploaders.
+ * Forward-port patches:
+  * 001_no_xkb_in_pc_file.diff: update
+  * 003_recognize_glibc_2.3.2_locale_names.diff: update
+  * 004_en_US.UTF-8_Compose_fix_Unicode_plane_1.diff: update
+  * 005_Composefix_latin1_UTF8.diff: update
+  * 010_manpage_suffixes.diff: delete, applied upstream
+  * 012_ru_RU_UTF-8_XLC_LOCALE.diff: update
+  * 014_add_Khmer_digraphs.diff: update
+  * 015_russian_locale_alias.diff: update
+  * 016_greek_polytonic_Compose.diff: update
+  * 019_new_autoconf.diff: delete, applied upstream
+  * 020_CVE-2006-5397.diff: delete, applied upstream
+  * Add Build-Depends on libxcb1-dev >= 0.9.92 and libxcb-xlib0-dev >= 0.9.92.
+  * Stop registering /usr/X11R6/lib in /etc/ld.so.conf in the postinst;
+  * instead, deregister it if no libraries remain in it. Remove deregistration
+  * in postrm, and remove now-unecessary postrm.
+  * Add Build-Depends not needed with Xlib/XCB: bigreqsproto, xcmiscproto,
+  * libxau-dev, and libxdmcp-dev.
+  * libx11-dev has some unnecessary Depends, but other packages currently rely
+  * on them, so removal will wait until a later version.
+  * Add library, -dev, and -dbg packages for new library libX11-xcb. Modify
+  * rules to handle these new packages.
+  * libX11-xcb Conflicts: libx11-6 (<< 2:1.1), since it requires a version with
+  * Xlib/XCB.
+  * Add a NEWS.Debian to libx11-6, with Xlib/XCB information.
+  * Add XS-Vcs-Git field.
+  * Remove old upstream CVS information from package descriptions.
+  * Reword package descriptions to stop calling Xlib "the" client interface.
+
+ -- Josh Triplett <josh@freedesktop.org> Fri, 24 Nov 2006 17:36:55 -0800
+ +libx11 (2:1.0.3-7) unstable; urgency=high
+
+ * Grab patch from upstream git to fix CVE-2007-1667 (the patch included in
+  2:1.0.3-6 was incomplete). This closes: #414045.

---

Open Source Used In Intersight Kubernetes Service 1.0.15 18743
+ -- Julien Cristau <jcristau@debian.org> Tue, 03 Apr 2007 18:45:51 +0200
+ +libx11 (2:1.0.3-6) unstable; urgency=high
+ + * Add patch by Daniel Kobras <kobras@debian.org> to add more input
+ * validation to XInitImage(), to fix security issues (closes: #414045).
+ + -- Julien Cristau <jcristau@debian.org> Fri, 09 Mar 2007 02:23:06 +0100
+ +libx11 (2:1.0.3-5) unstable; urgency=high
+ + * Remove /usr/X11R6/lib from /etc/ld.so.conf in postinst if it's no longer
+ * needed, instead of adding it there.
+ * Add patch 021_compose_fclose.diff to fix file descriptor leak when a
+ * Compose file uses the "include" directive. Urgency high because this bug
+ * can have security implications.
+ * Add myself to Uploaders, and remove Fabio and Branden with their
+ * permission.
+ + -- Julien Cristau <julien.cristau@ens-lyon.org> Thu, 01 Feb 2007 13:09:20 +0100
+ +libx11 (2:1.0.3-4) unstable; urgency=low
+ + * Some patches got lost in the upgrade from 1.0.0 (2:1.0.0-9) to 1.0.3:
+ * 015_russian_locale_alias.diff. Closes: #368655.
+ * This aligns with the glibc russian definition of ru_RU.KOI8-R in
+ * /usr/share/locale/locale.alias. Note that this only applies to
+ * Debian's glibc, see bug #62586 and glibc 2.2.5-4. Because of the
+ * constraint imposed by glibc in /usr/share/i18n/locales/ru_RU,
+ * we cannot likewise change ru and ru_RU away from ISO8859-5.
+ * They really should be using ru_RU.UTF-8 anyway.
+ * 016_greek_polytonic_Compose.diff. Closes: #386471.
+ * 017_FT BFS_makekeys.diff can be left out since it is applied in 1.0.3.
+ + -- Drew Parsons <dparsons@debian.org> Wed, 22 Nov 2006 00:26:36 +1100
+ +libx11 (2:1.0.3-3) unstable; urgency=high
+ + [ Julien Cristau ]
+ * Urgency high for security bugfix (CVE-2006-5397).
+ * Add patch 020_CVE-2006-5397 to fix double fopen() of compose file
+ * (closes: #398460). Thanks to Stefan Fritsch for the report.
+ + -- David Nusinow <dnusinow@debian.org> Tue, 14 Nov 2006 19:56:01 -0500
+ +libx11 (2:1.0.3-2) unstable; urgency=low
+
[Denis Barbier]
* Drop --enable-loadable-i18n from confflags, it does not work with 1.0.3.
  Closes: #392567 Thanks Jérôme Marant

-- David Nusinow <dnusinow@debian.org>  Fri, 13 Oct 2006 13:25:59 -0400
+libx11 (2:1.0.3-1) unstable; urgency=low
+
[David Nusinow]
* New upstream release
* Dump obsolete patch 10 for manpage fix and 13 for setuid fix
* Run dh_install with --list-missing
* Remove obsolete patch 011
* Bump debhelper compat to 5
* Upstream fix allows building in gnu environments. Thanks Samuel
  Thibault, Robert Millan, and Michael Banck. Closes: #358708
* Add 019_new_autoconf.diff to allow us to not break the server in
  horrendous ways using newer versions of autoconf. Thanks to Jamey Sharp
  for pointing this patch out in upstream HEAD.
* Add 010_manpage_suffixes.diff to dynamically generate the internal manpage
  section using __libmansuffix__ the same way the actual file suffix is
  generated, so that they match and lintian becomes useful again here
* Add pre-depends on x11-common for the -dev package
+
[Denis Barbier]
* Sync patches:
  - 003_recognize_glibc_2.3.2_locale_names.diff
  - 005_Compose_fix_latin1_UTF8.diff
  - 006_tailor_pt_BR.UTF-8_Compose.diff
  - 014_add_Khmer_digraphs.diff
* Add 014_add_Khmer_digraphs.diff. Khmer keyboards have to generate
  several characters with a single keystroke, so define them in
  en_US.UTF-8/Compose. They will be added later to all UTF-8 files.
  Thanks Paul Wise. (closes: #355957)
* Add support for Khmer locale in 003_recognize_glibc_2.3.2_locale_names.diff
+
[Andres Salomon]
* Test for obj-$DEB_BUILD_GNU_TYPE before creating it during build;
  idempotency fix.
+
[Drew Parsons]
* dbg package has priority extra.
+
-- David Nusinow <dnusinow@debian.org>  Tue, 10 Oct 2006 22:34:36 -0400
+libx11 (2:1.0.0-9) unstable; urgency=low
+
* Add 015_russian_locale_alias.diff. Locale alias for russian was incorrect,
it should be ru_RU.KOI8-R as in glibc locale.alias. Thanks Andrei Lahun.
(closes: #368655)

+ * Add 016_greek_polytonic_Compose.diff. Add compose sequences with the
right breathing signs U0313/U0314 to el_GR.UTF-8/Compose.
+ Thanks Jan Willem Stumpel. (closes: #386471)
+ * Add 017_FTBSF_makekeys.diff. Fix a FTBFS when compiling with
x11proto-core-dev >= 7.0.3, backported from upstream.
+ Thanks Goswin von Brederlow. (closes: #387133)
+
+ -- Denis Barbier <barbier@debian.org> Thu, 14 Sep 2006 01:35:19 +0200
+
+libx11 (2:1.0.0-8) unstable; urgency=low
+
+ * Add 18_nonlinux.diff to fix building in gnu environments. Thanks Samuel
Thibault, Robert Millan, and Michael Banck. Closes: #358708
+
+ -- David Nusinow <dnusinow@debian.org> Wed, 27 Sep 2006 21:07:10 -0400
+
+libx11 (2:1.0.0-7) unstable; urgency=high
+
+ * Security update. Fix for setuid privledge escalation vulernabilities.
the full advisory.
+ * Bump standards version to 3.7.2.0
+
+ -- David Nusinow <dnusinow@debian.org> Sat, 1 Jul 2006 17:05:07 -0400
+
+libx11 (2:1.0.0-6) unstable; urgency=low
+
+ * Remove libx11-dev's dependencies on libxi-dev and libxkbfile-dev. Add a
dependency on x11proto-input-dev instead. This should break some circular
dependencies. Thanks go yet again to Kurt Roeckx.
+
+ -- David Nusinow <dnusinow@debian.org> Tue, 11 Apr 2006 18:17:46 -0400
+
+libx11 (2:1.0.0-5) unstable; urgency=low
+
+ * Upload to unstable
+
+ -- David Nusinow <dnusinow@debian.org> Thu, 23 Mar 2006 22:44:26 -0500
+
+libx11 (2:1.0.0-4) experimental; urgency=low
+
[ David Nusinow ]
+ * Remove libx11-dev versioned dependency on libxext-dev. This was preventing
bootstraping of libxext. Thanks Eugene Konev.
+
[ Denis Barbier ]
+ * Add Build-Depends: x11proto-input-dev, quilt. Thanks Kurt Roeckx.
+ (Closes: #356918).
+
+ -- David Nusinow <dnusinow@debian.org> Tue, 21 Mar 2006 19:55:58 -0500
+ >+ * Add Build-Depends: x11proto-input-dev, quilt. Thanks Kurt Roeckx.
+ >+ (Closes: #356918).
+ >+
+ + [ David Nusinow ]
+ + * Stop using the xsfbs autoreconf script. The main benefit of using quilt in
+ +   keeping the patches separate is for submitting things upstream and porting
+ +   our changes between upstream releases. Keeping the automatically generated
+ +   build system stuff in patches also doesn’t fall under this use category.
+ + * Make libx11-6 conflict with xlibs-data. Thanks Kurt Roeckx.
+ + (closes: #356415)
+
+ -- David Nusinow <dnusinow@debian.org> Sun, 12 Mar 2006 14:00:31 -0500
+
+ + * Stop using the xsfbs autoreconf script. The main benefit of using quilt in
+ +   keeping the patches separate is for submitting things upstream and porting
+ +   our changes between upstream releases. Keeping the automatically generated
+ +   build system stuff in patches also doesn’t fall under this use category.
+ + * Make libx11-6 conflict with xlibs-data. Thanks Kurt Roeckx.
+ + (closes: #356415)
+
+ -- David Nusinow <dnusinow@debian.org> Sun, 12 Mar 2006 14:00:31 -0500
+ >+ [ David Nusinow ]
+ + * Stop using the xsfbs autoreconf script. The main benefit of using quilt in
+ +   keeping the patches separate is for submitting things upstream and porting
+ +   our changes between upstream releases. Keeping the automatically generated
+ +   build system stuff in patches also doesn’t fall under this use category.
+ + * Make libx11-6 conflict with xlibs-data. Thanks Kurt Roeckx.
+ + (closes: #356415)
+
+ + [ David Nusinow ]
+ + * Properly install all the contents of /usr/lib/X11/locale. Thanks Zephenia
+ +   E. Hull.
+ + * Provide versioned build-depends on the X libs. Thanks Kurt Roeckx.
+ + (closes: #354161)
+ + * Provide libx11-dev dependencies on libxdmcp-dev.
+ + Thanks Kurt Roeckx. (closes: #354167)
+ + * Add a bunch of depends to libx11-dev from the monolith. Thanks Eugene
+ +   Konev for the pointer.
+ + * Add 001_no_xkb_in_pc_file.diff because we don’t need x11proto-input-dev.
+ + Thanks Eugene Konev.
+
+ -- Eugene Konev <eugene@debian.org> Sun, 12 Mar 2006 14:00:31 -0500
+ >+ [ Eugene Konev ]
+ + * Properly install all the contents of /usr/lib/X11/locale. Thanks Zephenia
+ +   E. Hull.
+ + * Provide versioned build-depends on the X libs. Thanks Kurt Roeckx.
+ + (closes: #354161)
+ + * Provide libx11-dev dependencies on libxdmcp-dev.
+ + Thanks Kurt Roeckx. (closes: #354167)
+ + * Add a bunch of depends to libx11-dev from the monolith. Thanks Eugene
+ +   Konev for the pointer.
+ + * Add 001_no_xkb_in_pc_file.diff because we don’t need x11proto-input-dev.
+ + Thanks Eugene Konev.
+
+ -- Eugene Konev <eugene@debian.org> Sun, 12 Mar 2006 14:00:31 -0500

+ + [ Eugene Konev ]
+ + * Properly install all the contents of /usr/lib/X11/locale. Thanks Zephenia
+ +   E. Hull.
+ + * Provide versioned build-depends on the X libs. Thanks Kurt Roeckx.
+ + (closes: #354161)
+ + * Provide libx11-dev dependencies on libxdmcp-dev.
+ + Thanks Kurt Roeckx. (closes: #354167)
+ + * Add a bunch of depends to libx11-dev from the monolith. Thanks Eugene
+ +   Konev for the pointer.
+ + * Add 001_no_xkb_in_pc_file.diff because we don’t need x11proto-input-dev.
+ + Thanks Eugene Konev.
+
+ + [ Eugene Konev ]
+ + * Move locale data in separate libx11-data package. Make libx11-6 depend
+ +   on it.
+ + * libx11-6.install.in? Huh? Replaced with libx11-6.install
+ + * Add real binary-indep.
+ + * Add patches from 6.9:
+ +   - 002_arm_abi_brain_damage.diff
+ +   - 003_recognize_glibc_2_3_2_locale_names.diff
+ +   - 004_en_US.UTF-8_Compose_fix_Unicode_plane_1.diff
+ +   - 005_Compose_fix_latin1_UTF8.diff
+ +   - 006_tailor_pt_BR.UTF-8_Compose.diff
+ +   - 007_iso8859-15_Compose_fix.diff
+ +   - 008_remove_ko_Compose.diff
+ +   - 009_iso8859-15_Compose Eurosineign.diff
+ +   - 012_ru_RU_UTF-8_XLC_LOCALE.diff
+ + * Adjust Pre-depends for libx11-6. Remove depends on x11-common from
+ + libx11-dbg and libx11-dev as they depend on libx11-6 anyway.
+ * Run dh_install with --fail-missing if there is checkinstall in
+ DEB_BUILD_OPTIONS
+ * Resurrect libx11-6.post{inst,rm}.in. Add genscripts to build target's
+ dependencies.
+ * Fix libx11-6.preinst.in to include shellib and define appropriate vars.
+ * Grab fixes for manpages section from Xorg CVS
+ - 010_manpages_fix.diff
+ * Grab ubuntu patch to support XLOCALELIBDIR separate from XLOCALEDIR
+ - 011_stolen_fromUbuntu_xlocalelibdir.diff
+ * Use --enable-loadable-i18n to confflags.
+ -- Eugene Konev <ejka@imfi.kspu.ru> Mon, 27 Feb 2006 13:45:29 +0700
+ +libx11 (2:1.0.0-1) experimental; urgency=low
+ + * First upload to Debian
+ + * Remove versioned build-dep on x11proto-core-dev, since the first package
+ + we'll be uploading will be versioned properly for us
+ + * Remove patch dir as the patch has been incorporated by upstream
+ + -- David Nusinow <dnusinow@debian.org> Thu, 29 Dec 2005 20:51:20 -0500
+ +libx11 (1:6.2.1+cvs.20050722-8) breezy; urgency=low
+ + * Fix non-UTF-8 locales by fixing generation of compose.dir, locale.alias,
+ + and locale.dir in nls/ (closes: Ubuntu#13724).
+ + -- Daniel Stone <daniel.stone@ubuntu.com> Fri, 30 Sep 2005 16:30:55 +1000
+ +libx11 (1:6.2.1+cvs.20050722-7) breezy; urgency=low
+ + * Move man pages back to section 3 (closes: Ubuntu#16290).
+ + -- Daniel Stone <daniel.stone@ubuntu.com> Thu, 29 Sep 2005 11:26:11 +1000
+ +libx11 (1:6.2.1+cvs.20050722-6) breezy; urgency=low
+ + * Add libx11-dev Build-Depends on x11proto-kb-dev, so we get XKBstr.h, which
+ + makes XKBlib.h usable.
+ + * Add foo_t and TRANS_CLIENT defines to Xtrans users; thanks Isaac Richards
+ + for the catch (closes: Ubuntu#12052).
+ + -- Daniel Stone <daniel.stone@ubuntu.com> Fri, 19 Aug 2005 15:19:33 +1000
+ +libx11 (1:6.2.1+cvs.20050722-5) breezy; urgency=low
+ + * Add x-common Pre-Depends to libx11-6, as we ship stuff in
+ /usr/lib/X11.
+
+ -- Daniel Stone <daniel.stone@ubuntu.com>  Thu, 18 Aug 2005 12:12:45 +1000
+ +libx11 (1:6.2.1+cvs.20050722-4) breezy; urgency=low
+ + * Fix search path for libXcursor.
+ + * Add :s to compose.dir to get composition working in apps which use the
+ + default X input method (closes: Ubuntu#12184).
+ +
+ -- Daniel Stone <daniel.stone@ubuntu.com>  Mon,  8 Aug 2005 13:32:12 +1000
+ +libx11 (1:6.2.1+cvs.20050722-3) breezy; urgency=low
+ + * Make ErrDes.c and StrKeysym.c look for XKEYSYMDB and XERRORDB, not
+ + KEYSYMDB and ERRORDB, with the pleasant side-effect that they look
+ + directly in /usr/share/X11, not /usr/lib/X11, so we can throw the cheesy
+ + symlinks away. This fixes some corner cases in hoary upgrades.
+ +
+ -- Daniel Stone <daniel.stone@ubuntu.com>  Mon,  1 Aug 2005 13:17:15 +1000
+ +libx11 (1:6.2.1+cvs.20050722-2) breezy; urgency=low
+ + * Move locale data back to /usr/share and libraries to /usr/lib. XlcDL.c
+ + and lcFile.c hacked to accommodate this, as well as configure.ac. This
+ + fixes all the locale problems, AFAICT. (closes: Ubuntu#12142)
+ +
+ -- Daniel Stone <daniel.stone@ubuntu.com>  Tue, 26 Jul 2005 23:00:21 +1000
+ +libx11 (1:6.2.1+cvs.20050722-1) breezy; urgency=low
+ + * Fix locales harder: add the old loadable locale modules back.
+ + * Although architecture-independent locale data has been moved to
+ + /usr/lib/X11/locale because of limitations in the path-parsing code.
+ + Argh!
+ + * Bump Build-Depends on x11proto-core-dev to today's CVS; -D_XOPEN_SOURCE
+ + begone!
+ +
+ -- Daniel Stone <daniel.stone@ubuntu.com>  Fri, 22 Jul 2005 22:29:21 +1000
+ +libx11 (1:6.2.1+cvs.20050711-1) breezy; urgency=low
+ + * New CVS snapshot, incorporating patch #086 from the monolith.
+ +
+ -- Daniel Stone <daniel.stone@ubuntu.com>  Mon, 11 Jul 2005 10:10:44 +1000
+ +libx11 (1:6.2.1+cvs.20050615-5) breezy; urgency=low
+ +
+ * Bump libx11-6 -> xlibs-data Conflicts/Replaces to -34; Tollef's -33 did
+ not change this.
+
+ -- Daniel Stone <daniel.stone@ubuntu.com> Tue, 5 Jul 2005 01:41:19 +1000
+
lxb11 (1:6.2.1+cvs.20050615-4) breezy; urgency=low
+
+ * Make Build-Depends and Depends on x11proto-core-dev explicitly >=
+ 6.8.99.8-1 (hi LaMont!).
+ * Add symlinks to X{Error,KeySym}DB from /usr/{X11R6,}lib/X11. Bump
+ Conflicts on xlibs-data up to -33. Add symlinks to locale data in
+ /usr/{X11R6,}lib/X11 (closes: Ubuntu#12081).
+
+ -- Daniel Stone <daniel.stone@ubuntu.com> Fri, 17 Jun 2005 15:58:44 +1000
+
lxb11 (1:6.2.1+cvs.20050615-3) breezy; urgency=low
+
+ * Add missing build-depends on:
+ - pkg-config, x11proto-kb-dev, x11proto-input-dev
+
+ -- Adam Conrad <adconrad@ubuntu.com> Thu, 16 Jun 2005 13:50:14 +0000
+
lxb11 (1:6.2.1+cvs.20050615-2) breezy; urgency=low
+
+ * Move Build-Depends-Indep to Build-Depends to fix FTBFSs.
+
+ -- Adam Conrad <adconrad@ubuntu.com> Thu, 16 Jun 2005 08:53:59 +0000
+
lxb11 (1:6.2.1+cvs.20050615-1) breezy; urgency=low
+
+ * First libx11 release.
+ + XCB support removed for now.
+
+ -- Daniel Stone <daniel.stone@ubuntu.com> Mon, 16 May 2005 22:10:17 +1000

--- libx11-1.6.7.orig/debian/compat
+++ libx11-1.6.7/debian/compat
@@ -0,0 +1 @@
+10

--- libx11-1.6.7.orig/debian/control
+++ libx11-1.6.7/debian/control
@@ -0,0 +1,168 @@
+Source: libx11
+Section: x11
+Priority: optional
+Maintainer: Debian X Strike Force <debian-x@lists.debian.org>
+Build-Depends:
+ debhelper (>= 10),
+ dpkg-dev (>= 1.18.0),
+ pkg-config,
+ xtrans-dev,
+ x11proto-core-dev (>= 7.0.21),
+ x11proto-kb-dev,
+ x11proto-input-dev,
+ x11proto-xext-dev,
+ x11proto-xf86bigfont-dev (>= 1.2.0),
+ libxcb1-dev (>= 1.11.1),
+ quit,
+ xutils-dev (>= 1:7.6+2),
+ # specs
+ xmlto,
+ xorg-sgml-doctools (>= 1:1.10),
+ w3m,
+ Standards-Version: 4.2.0
+ Vcs-Git: https://salsa.debian.org/xorg-team/lib/libx11
+ Vcs-Browser: https://salsa.debian.org/xorg-team/lib/libx11
+ Package: libx11-6
+ Section: libs
+ Architecture: any
+ Depends:
+ ${shlibs:Depends},
+ ${misc:Depends},
+ libx11-data,
+ Pre-Depends: ${misc:Pre-Depends}
+ Multi-Arch: same
+ Description: X11 client-side library
+ This package provides a client interface to the X Window System, otherwise
+ known as 'Xlib'. It provides a complete API for the basic functions of the
+ window system.
+ .
+ More information about X.Org can be found at:
+ <URL:https://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libX11
+ Package: libx11-6-udeb
+ XC-Package-Type: udeb
+ Section: debian-installer
+ Architecture: any
+ Depends:
+ ${shlibs:Depends},
+ ${misc:Depends},
+ Description: X11 client-side library
+ This is a udeb, or a microdeb, for the debian-installer.
+
+Package: libx11-data
+Architecture: all
+Depends:
  + ${misc:Depends},
+Breaks: libx11-6 (< 2:1.4.1)
+Multi-Arch: foreign
+Description: X11 client-side library
  + This package provides the locale data files for libx11.
  +
  + More information about X.Org can be found at:
  + <URL:https://www.X.org>
  +
  + This module can be found at
  + git://anongit.freedesktop.org/git/xorg/lib/libX11

+Package: libx11-dev
+Section: libdevel
+Architecture: any
+Multi-Arch: same
+Depends:
  + ${shlibs:Depends},
  + ${misc:Depends},
  + libx11-6 (= ${binary:Version}),
  + libxau-dev (>= 1:1.0.0-1),
  + libxdmcp-dev (>= 1:1.0.0-1),
  + x11proto-core-dev (>= 7.0.17),
  + x11proto-input-dev,
  + x11proto-icccm-dev,
  + xtrans-dev,
  + libxcb1-dev,
+Suggests: libx11-doc
+Description: X11 client-side library (development headers)
  + This package provides a client interface to the X Window System, otherwise
  + known as 'Xlib'. It provides a complete API for the basic functions of the
  + window system.
  +
  + This package contains the development headers for the library found in
  + libx11-6. Non-developers likely have little use for this package.
  +
  + More information about X.Org can be found at:
  + <URL:https://www.X.org>
  +
  + This module can be found at
  + git://anongit.freedesktop.org/git/xorg/lib/libX11

+Package: libx11-xcb1
+Section: libs
+Architecture: any
+Depends:
+ ${shlibs:Depends},
+ ${misc:Depends},
+Pre-Depends: ${misc:Pre-Depends}
+Multi-Arch: same
+Description: Xlib/XCB interface library
+ libX11-xcb provides functions needed by clients which take advantage of
+ Xlib/XCB to mix calls to both Xlib and XCB over the same X connection.
+ .
+ More information about X.Org can be found at:
+ <URL:https://www.x.org>
+ .
+ More information about XCB can be found at:
+ <URL:https://xcb.freedesktop.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libX11
+
+Package: libx11-xcb-dev
+Section: libdevel
+Architecture: any
+Multi-Arch: same
+Depends:
+ ${shlibs:Depends},
+ ${misc:Depends},
+ libx11-xcb1 (= ${binary:Version}),
+ libxcb1-dev (>= 1.11.1),
+ libx11-dev,
+Description: Xlib/XCB interface library (development headers)
+ libX11-xcb provides functions needed by clients which take advantage of
+ Xlib/XCB to mix calls to both Xlib and XCB over the same X connection.
+ .
+ This package contains the development headers for the library found in
+ libx11-xcb1. Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:https://www.x.org>
+ .
+ More information about XCB can be found at:
+ <URL:https://xcb.freedesktop.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libX11
+
+Package: libx11-doc
+Section: doc
+Architecture: all
+Multi-Arch: foreign
+Description: X11 client-side library (development documentation)
+ This package provides a client interface to the X Window System, otherwise
+ known as 'Xlib'. It provides a complete API for the basic functions of the
+ window system.
+ .
+ This package contains supplemental documentation for the library found in
+ libx11-6. Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:https://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libX11
--- libx11-1.6.7.orig/debian/copyright
+++ libx11-1.6.7/debian/copyright
@@ -0,0 +1,944 @@
+This package was downloaded from
+https://xorg.freedesktop.org/releases/individual/lib/
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--- libx11-1.6.7.org/debian/libx11-6-udeb.install
+++ libx11-1.6.7/debian/libx11-6-udeb.install
@@ -0,0 +1,5 @@
+# from libx11-6:
+usr/lib/*/libX11.so.6* usr/lib
+
+# from libx11-data:
+usr/share/X11/XErrorDB

--- libx11-1.6.7.org/debian/libx11-6.NEWS
+++ libx11-1.6.7/debian/libx11-6.NEWS
@@ -0,0 +1,32 @@
+libx11 (2:1.1-1) experimental; urgency=low
+
+ [ Josh Triplett, Jamey Sharp ]
+ libx11 1.1 includes our work on Xlib/XCB, which uses XCB as the Xlib
+ transport layer, and allows a client to use both Xlib and XCB on the
+ same connection. This allows clients to transition from Xlib to XCB
+ incrementally. libx11-6 1.1 is API- and ABI-compatible with previous
+ versions, and does not require any software or package changes.
+
+ Ideally, you will not notice any
+ change at all. However, Xlib/XCB includes some additional
+ code to check for bugs in calling software. If you encounter a problem, you
+ will most likely just see an application disappear, due to having triggered
+ an assertion and aborted. If you ran the application from a terminal, you
+ can look there to see error output and get more details; otherwise, look at
+ ~/.xsession-errors. These assertions look like one of these:
+
+
+ Both of these represent bugs in a caller of libX11, and *not* in
+ libX11 or libxcb. The first assertion means that a caller attempted
+ to lock the display while already locked. The second assertion means
+ that a caller attempted to unlock the display without having it
+ locked. If you encounter such bugs, please report a bug against the
+ offending software (*not* libx11-6 or libxcb), provide a backtrace,
+ and X-Debbugs-CC: xcb@lists.freedesktop.org if you need help tracking
+ down the problem. If the bug always consistently occurs when running
+ the application (or in the case of a library, invoking the library),
+ use severity "important", and raise to "grave" after the etch release.
+
+ -- Josh Triplett <josh@freedesktop.org> Fri, 24 Nov 2006 17:36:55 -0800
--- libx11-1.6.7.org/debian/libx11-6.install
+++ libx11-1.6.7/debian/libx11-6.install
@@ -0,0 +1 @@
+usr/lib/*/libX11.so.6*
--- libx11-1.6.7.orig/debian/libx11-6.lintian-overrides
+++ libx11-1.6.7/debian/libx11-6.lintian-overrides
@@ -0,0 +1 @@
+symbols-declares-dependency-on-other-package libx11-private
--- libx11-1.6.7.orig/debian/libx11-6.symbols
+++ libx11-1.6.7/debian/libx11-6.symbols
@@ -0,0 +1,1235 @@
+libX11.so.6 libx11-6 #MINVER#
+| libx11-private
+ (optional)KeySymToUcs4@Base 0 1
+ XActivateScreenSaver@Base 0
+ XAddConnectionWatch@Base 0
+ XAddExtension@Base 0
+ XAddHost@Base 0
+ XAddHosts@Base 0
+ XAddPixel@Base 0
+ XAddToExtensionList@Base 0
+ XAddToSaveSet@Base 0
+ XAllPlanes@Base 0
+ XAllocClassHint@Base 0
+ XAllocColor@Base 0
+ XAllocColorCells@Base 0
+ XAllocColorPlanes@Base 0
+ XAllocIconSize@Base 0
+ XAllocNamedColor@Base 0
+ XAllocSizeHints@Base 0
+ XAllocStandardColormap@Base 0
+ XAllocWMHints@Base 0
+ XAllowEvents@Base 0
+ XAutoRepeatOff@Base 0
+ XAutoRepeatOn@Base 0
+ XBaseFontNameListOfFontSet@Base 0
+ XBell@Base 0
+ XBitmapBitOrder@Base 0
+ XBitmapPad@Base 0
+ XBitmapUnit@Base 0
+ XBlackPixel@Base 0
+ XBlackPixelOfScreen@Base 0
+ XCellsOfScreen@Base 0
+ XChangeActivePointerGrab@Base 0
+ XChangeGC@Base 0
+ XChangeKeyboardControl@Base 0
+ XChangeKeyboardMapping@Base 0
+ XChangePointerControl@Base 0
+ XChangePointerControl@Base 0

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+ XESetBeforeFlush@Base 0
+ XESetCloseDisplay@Base 0
+ XESetCopyEventCookie@Base 2:1.2.99.901
+ XESetCopyGC@Base 0
+ XESetCreateFont@Base 0
+ XESetCreateGC@Base 0
+ XESetError@Base 0
+ XESetErrorString@Base 0
+ XESetEventToWire@Base 0
+ XESetFlushGC@Base 0
+ XESetFreeFont@Base 0
+ XESetFreeGC@Base 0
+ XESetPrintErrorValues@Base 0
+ XESetWireToError@Base 0
+ XESetWireToEvent@Base 0
+ XESetWireToEventCookie@Base 2:1.2.99.901
+ XEmptyRegion@Base 0
+ XEnableAccessControl@Base 0
+ XEqualRegion@Base 0
+ XEventMaskOfScreen@Base 0
+ XEventsQueued@Base 0
+ XExtendedMaxRequestSize@Base 0
+ XExtentsOfFontSet@Base 0
+ XFetchBuffer@Base 0
+ XFetchBytes@Base 0
+ XFetchName@Base 0
+ XFillArc@Base 0
+ XFillArcs@Base 0
+ XFillPolygon@Base 0
+ XFillRectangle@Base 0
+ XFillRectangles@Base 0
+ XFilterEvent@Base 0
+ XFindContext@Base 0
+ XFindOnExtensionList@Base 0
+ XFlush@Base 0
+ XFlushGC@Base 0
+ XFontsOfFontSet@Base 0
+ XForceScreenSaver@Base 0
+ XFree@Base 0
+ XFreeColormap@Base 0
+ XFreeColors@Base 0
+ XFreeCursor@Base 0
+ XFreeEventData@Base 2:1.2.99.901
+ XFreeExtensionList@Base 0
+ XFreeFont@Base 0
+ XFreeFontInfo@Base 0
+ XFreeFontNames@Base 0
+ XFreeFontPath@Base 0
+ XFreeFontSet@Base 0
+ XFreeGC@Base 0
+ XFreeModifiermap@Base 0
+ XFreePixmap@Base 0
+ XFreeStringList@Base 0
+ XGContextFromGC@Base 0
+ XGeometry@Base 0
+ XGetAtomName@Base 0
+ XGetAtomNames@Base 0
+ XGetClassHint@Base 0
+ XGetCommand@Base 0
+ XGetDefault@Base 0
+ XGetErrorDatabaseText@Base 0
+ XGetErrorText@Base 0
+ XGetEventData@Base 2:1.2.99.901
+ XGetFontPath@Base 0
+ XGetFontProperty@Base 0
+ XGetGCValues@Base 0
+ XGetGeometry@Base 0
+ XGetICValues@Base 0
+ XGetIMValues@Base 0
+ XGetIconName@Base 0
+ XGetIconSizes@Base 0
+ XGetImage@Base 0
+ XGetInputFocus@Base 0
+ XGetKeyboardControl@Base 0
+ XGetKeyboardMapping@Base 0
+ XGetModifierMapping@Base 0
+ XGetMotionEvents@Base 0
+ XGetNormalHints@Base 0
+ XGetOCValues@Base 0
+ XGetOMValues@Base 0
+ XGetPixel@Base 0
+ XGetPointerControl@Base 0
+ XGetPointerMapping@Base 0
+ XGetRGBColormaps@Base 0
+ XGetScreenSaver@Base 0
+ XGetSelectionOwner@Base 0
+ XGetSizeHints@Base 0
+ XGetStandardColormap@Base 0
+ XGetSubImage@Base 0
+ XGetTextProperty@Base 0
+ XGetTransientForHint@Base 0
+ XGetVisualInfo@Base 0
+ XGetWMClientMachine@Base 0
+ XGetWMColormapWindows@Base 0
+ XGetWMHints@Base 0
+ XGetWMIIconName@Base 0
+ XGetWMName@Base 0
+ XGetWMNormalHints@Base 0
+ XGetWMProtocols@Base 0
+ XGetWMSizesHints@Base 0
+ XGetWindowAttributes@Base 0
+ XGetWindowProperty@Base 0
+ XGetZoomHints@Base 0
+ XGrabButton@Base 0
+ XGrabKey@Base 0
+ XGrabKeyboard@Base 0
+ XGrabPointer@Base 0
+ XGrabServer@Base 0
+ XHeightMMOfScreen@Base 0
+ XHeightOfScreen@Base 0
+ XIMOfIC@Base 0
+ XIconifyWindow@Base 0
+ XIfEvent@Base 0
+ XImageByteOrder@Base 0
+ XInitExtension@Base 0
+ XInitImage@Base 0
+ XInitThreads@Base 0
+ XInsertModifiermapEntry@Base 0
+ XInstallColormap@Base 0
+ XInternAtom@Base 0
+ XInternAtoms@Base 0
+ XInternalConnectionNumbers@Base 0
+ XIntersectRegion@Base 0
+ XKeycodeToKeysym@Base 0
+ XKeysymToKeyCode@Base 0
+ XKeysymToString@Base 0
+ XKillClient@Base 0
+ XLastKnownRequestProcessed@Base 0
+ XListDepths@Base 0
+ XListExtensions@Base 0
+ XListFonts@Base 0
+ XListFontsWithInfo@Base 0
+ XListHosts@Base 0
+ XListInstalledColormaps@Base 0
+ XListPixmapFormats@Base 0
+ XListProperties@Base 0
+ XLoadFont@Base 0
+ XLoadQueryFont@Base 0
+ XLocaleOfFontSet@Base 0
+ XLocaleOfIM@Base 0
+ XLocaleOfOM@Base 0
+ XLockDisplay@Base 0
+ XLookupColor@Base 0
+ XLookupKeysym@Base 0
+ XShrinkRegion@Base 0
+ XStoreBuffer@Base 0
+ XStoreBytes@Base 0
+ XStoreColor@Base 0
+ XStoreColors@Base 0
+ XStoreName@Base 0
+ XStoreNamedColor@Base 0
+ XStringListToTextProperty@Base 0
+ XStringToKeysym@Base 0
+ XSubImage@Base 0
+ XSubtractRegion@Base 0
+ XSynchronize@Base 0
+ XSync@Base 0
+ XTextExtents16@Base 0
+ XTextExtents@Base 0
+ XTextPropertyToStringList@Base 0
+ XTextWidth16@Base 0
+ XTextWidth@Base 0
+ XTranslateCoordinates@Base 0
+ XUndefineCursor@Base 0
+ XUngrabButton@Base 0
+ XUngrabKey@Base 0
+ XUngrabKeyboard@Base 0
+ XUngrabPointer@Base 0
+ XUngrabServer@Base 0
+ XUninstallColormap@Base 0
+ XUnionRectWithRegion@Base 0
+ XUnionRegion@Base 0
+ XUnloadFont@Base 0
+ XUnlockDisplay@Base 0
+ XUnmapSubwindows@Base 0
+ XUnmapWindow@Base 0
+ XUnregisterIMInstantiateCallback@Base 0
+ XUnsetICFocus@Base 0
+ XVaCreateNestedList@Base 0
+ XVendorRelease@Base 0
+ XVisualIDFromVisual@Base 0
+ XWMGeometry@Base 0
+ XWarpPointer@Base 0
+ XWhitePixel@Base 0
+ XWhitePixelOfScreen@Base 0
+ XWidthMMOfScreen@Base 0
+ XWidthOfScreen@Base 0
+ XWindowEvent@Base 0
+ XWithdrawWindow@Base 0
+ XWriteBitmapFile@Base 0
+ XkbFreeGeomDoodads@Base 0
+ XkbFreeGeomKeyAliases@Base 0
+ XkbFreeGeomKeys@Base 0
+ XkbFreeGeomOutlines@Base 0
+ XkbFreeGeomOverlayKeys@Base 0
+ XkbFreeGeomOverlayRows@Base 0
+ XkbFreeGeomOverlays@Base 0
+ XkbFreeGeomPoints@Base 0
+ XkbFreeGeomProperties@Base 0
+ XkbFreeGeomRows@Base 0
+ XkbFreeGeomSections@Base 0
+ XkbFreeGeomShapes@Base 0
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+ XkbFreeIndicatorMaps@Base 0
+ XkbFreeKeyboard@Base 0
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+ XkbGetAutoResetControls@Base 0
+ XkbGetCompatMap@Base 0
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+ XkbGetDeviceButtonActions@Base 0
+ XkbGetDeviceInfo@Base 0
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+ XkbGetKeyExplicitComponents@Base 0
+ XkbGetKeyModifierMap@Base 0
+ XkbGetKeySyms@Base 0
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+ XkbGetKeyVirtualModMap@Base 0
+ XkbGetKeyboard@Base 0
+ XkbGetKeyboardByName@Base 0
+ XkbGetMap@Base 0
+ XkbGetMapChanges@Base 0
+ XkbGetNamedDeviceIndicator@Base 0
+ XkbGetNamedGeometry@Base 0
+ XkbGetNamedIndicator@Base 0
+ XkbGetNames@Base 0
+ XkbGetPerClientControls@Base 0
+ XkbGetState@Base 0
+ XkbGetUpdatedMap@Base 0
+ XkbGetVirtualMods@Base 0
+ XkbGetXlibControls@Base 0
+ XkbIgnoreExtension@Base 0
+ XkbInitCanonicalKeyTypes@Base 0
+ XkbKeyTypesForCoreSymbols@Base 0
+ XkbKeyCodeToKeysym@Base 0
+ XkbKeysymToModifiers@Base 0
+ XkbLatchGroup@Base 0
+ XkbLatchModifiers@Base 0
+ XkbLibraryVersion@Base 0
+ XkbListComponents@Base 0
+ XkbLockGroup@Base 0
+ XkbLockModifiers@Base 0
+ XkbLookupKeyBinding@Base 0
+ XkbLookupKeySym@Base 0
+ XkbNoteControlsChanges@Base 0
+ XkbNoteDeviceChanges@Base 0
+ XkbNoteMapChanges@Base 0
+ XkbNoteNameChanges@Base 0
+ XkbOpenDisplay@Base 0
+ XkbQueryExtension@Base 0
+ XkbRefreshKeyboardMapping@Base 0
+ XkbResizeDeviceButtonActions@Base 0
+ XkbResizeKeyActions@Base 0
+ XkbResizeKeySyms@Base 0
+ XkbResizeKeyType@Base 0
+ XkbSelectEventDetails@Base 0
+ XkbSelectEvents@Base 0
+ XkbSetAtomFuncs@Base 0
+ XkbSetAutoRepeatRate@Base 0
+ XkbSetAutoResetControls@Base 0
+ XkbSetCompatMap@Base 0
+ XkbSetControls@Base 0
+ XkbSetDebuggingFlags@Base 0
+ XkbSetDetectableAutoRepeat@Base 0
+ XkbSetDeviceButtonActions@Base 0
+ XkbSetDeviceInfo@Base 0
+ XkbSetDeviceLedInfo@Base 0
+ XkbSetGeometry@Base 0
+ XkbSetIgnoreLockMods@Base 0
+ XkbSetIndicatorMap@Base 0
+ XkbSetMap@Base 0
+ XkbSetNamedDeviceIndicator@Base 0
+ XkbSetNamedIndicator@Base 0
+ XkbSetNames@Base 0
+ XkbSetPerClientControls@Base 0
+ XkbSetServerInternalMods@Base 0
+ XkbSetXlibControls@Base 0
+ XkbToControl@Base 0
+ (optional) XkbFreeReadBuffer@Base 0 1
+ (optional) XkbGetAtomNameFunc@Base 0 1
+ (optional) XkbGetCharset@Base 0 1
+ (optional) XkbGetConverters@Base 0 1
+ (optional) XkbGetReadBufferCountedString@Base 0 1
+ (optional) XkbGetReadBufferPtr@Base 0 1
+ (optional) XkbInitReadBuffer@Base 0 1
+ (optional) XkbInternAtomFunc@Base 0 1
+ (optional) XkbNoteCoreMapChanges@Base 0 1
+ (optional) XkbPeekAtReadBuffer@Base 0 1
+ (optional|arch-bits=64) XkbReadBufferCopy32@Base 0 1
+ (optional) XkbReadBufferCopyKeySyms@Base 0 1
+ (optional|arch-bits=64) XkbReadCopyData32@Base 0 1
+ (optional) XkbReadCopyKeySyms@Base 0 1
+ (optional) XkbReadGetCompatMapReply@Base 0 1
+ (optional) XkbReadGetGeometryReply@Base 0 1
+ (optional) XkbReadGetIndicatorMapReply@Base 0 1
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+ (optional) XkbReadGetNamesReply@Base 0 1
+ (optional) XkbReloadDpy@Base 0 1
+ (optional) XkbSkipReadBufferData@Base 0 1
+ (optional|arch-bits=64) XkbWriteCopyData32@Base 0 1
+ (optional) XkbWriteCopyKeySyms@Base 0 1
+ (optional) XkeyTable@Base 0 1
+ (optional) XlcAddCT@Base 0 1
+ (optional) XlcAddCharSet@Base 0 1
+ (optional) XlcAddGB18030LocaleConverters@Base 0 1
+ (optional) XlcAddLoader@Base 0 1
+ (optional) XlcAddUtf8Converters@Base 0 1
+ (optional) XlcAddUtf8LocaleConverters@Base 0 1
+ (optional) XlcCloseConverter@Base 0 1
+ (optional) XlcCompareISOLatin1@Base 0 1
+ (optional) XlcCompileResourceList@Base 0 1
+ (optional) XlcConvert@Base 0 1
+ (optional) XlcCopyFromArg@Base 0 1
+ (optional) XlcCopyToArg@Base 0 1
+ (optional) XlcCountValList@Base 0 1
+ (optional) XlcCreateDefaultCharSet@Base 0 1
+ (optional) XlcCreateLC@Base 0 1
+ (optional) XlcCreateLocaleDataBase@Base 0 1
+ (optional) XlcCurrentLC@Base 0 1
+ (optional) XlcDbg_printValue@Base 0 1
+ (optional) XlcDeInitLoader@Base 0 1
+ (optional) XlcDefaultLoader@Base 0 1
+ (optional) XlcDefaultMapModifiers@Base 0 1
+ (optional) XlcDestroyLC@Base 0 1
+ (optional) XlcDestroyLocaleDataBase@Base 0 1
+ (optional) XlcFileName@Base 0 1
+usr/share/X11/locale
+usr/share/X11/XErrorDB
+usr/share/man/man5
--- libx11-1.6.7.orig/debian/libx11-dev.install
+++ libx11-1.6.7/debian/libx11-dev.install
@@ -0,0 +1,4 @@
+usr/include/X11/*
+usr/lib/*/libX11.a
+usr/lib/*/libX11.so
+usr/lib/*/pkgconfig/x11.pc
--- libx11-1.6.7.orig/debian/libx11-doc.install
+++ libx11-1.6.7/debian/libx11-doc.install
@@ -0,0 +1,2 @@
+usr/share/man/man3/*
+usr/share/doc/libX11/*
usr/share/doc/libx11-dev
--- libx11-1.6.7.orig/debian/libx11-xcb-dev.install
+++ libx11-1.6.7/debian/libx11-xcb-dev.install
@@ -0,0 +1,6 @@
+usr/include/X11/Xlib-xcb.h
+usr/share/man/man3/XGetXCBConnection.3
+usr/share/man/man3/XSetEventQueueOwner.3
+usr/lib/*/libX11-xcb.a
+usr/lib/*/libX11-xcb.so
+usr/lib/*/pkgconfig/x11-xcb.pc
--- libx11-1.6.7.orig/debian/libx11-xcb1.install
+++ libx11-1.6.7/debian/libx11-xcb1.install
@@ -0,0 +1 @@
+usr/lib/*/libX11-xcb.so.1*
--- libx11-1.6.7.orig/debian/patches/003_recognize_glibc_2.3.2_locale_names.diff
+++ libx11-1.6.7/debian/patches/003_recognize_glibc_2.3.2_locale_names.diff
@@ -0,0 +1,560 @@
$Id: 011a_recognize_glibc_2.3.2_locale_names.diff 1064 2006-01-11 12:26:45Z ender $
+
+* Major housecleaning of X11’s locale support.
+
+* Add all locales supported by version 2.3.2 of the GNU C Library except
+  zh_CN.GB18030, sq_AL.ISO-8859-1, and tg_TJ.KOI8-T. X has no support for
+  the GB18030 and KOI8-T character sets, and glibc appears to disagree with
+  most of the world about which character set Albanians use (see, for
+  example, iso_8859-2(7)). This baka gaijin has learned his lesson about
+  trying to report l10n bugs in glibc, so I’ll let someone else do the
+  jousting. :-P
+
+* Synchronize compose.dir with locale.dir wherever possible (i.e., wherever
+  compose tables exist) so that as many supported locales as possible get a
+  Compose map. Comment out references to compose tables that don’t
+  actually exist.
+
+* Disable support for iu_CA.NUNACOM-8. X11 doesn't have any support for
+ the NUNACOM-8 character set. (iu_CA.UTF-8 is still supported.)
+
+* Disable support for locales that are neither supported by the GNU C
+ Library, nor use standard ISO 639 language or 3166 territory codes. This
+ includes Esperanto (eo_EO), and what I presume is Pennsylvania
+ "Dutch" (pd_DE, pd_US).
+
+* Turn off intrusion of Nynorsk into Nyanja's ISO 639 space. (Nynorsk is
+ nn, not ny.)
+
+* Remove bogus "ee" locales for Estonian (et).
+
+* Remove ISO 8859-15 support for languages that don't use that character
+ set according to glibc.
+
+* Remove @euro modifier support from locales that don't use that currency
+ (i.e., countries not in the Euro zone).
+
+* Ensure we support the @euro modifier for all locales that use it
+ (according to glibc), even if the codeset is explicitly specified. See
+ Debian #208137.
+
+* Alias "fi" and "fi_FL" to "fi_FL.ISO8559-1", not "fi_FL.ISO8859-15", for
+ compatibility with the GNU C Library. See Debian #266834.
+
+* Rewrite some comments to be in grammatical English.
+
+This patch by Branden Robinson.
+Major "forward port" by Nathanael Nerode.
+
+Partially submitted upstream. This is so large I don't expect it to all go in at once,
+but any bit would help. --Nathanael
+
+Index: libx11/nls/compose.dir.pre
+===================================================================
++XCOMM Note that no Compose tables exist for ISO 8859-11, Microsoft code
++XCOMM pages, Fujitsu's S90 or U90 character sets, or TIS620 yet.
++XCOMM
++XCOMM
+ iso8859-1/Compose:C
++iso8859-1/Compose:aa_DJ.ISO8859-1
+ iso8859-1/Compose:af_ZA.ISO8859-1
Open Source Used In Intersight Kubernetes Service 1.0.15

++iso8859-15/Compose:kw_GB.ISO8859-15
++iso8859-10/Compose:lg_UG.ISO8859-10
+ ko/Compose:ko_KR.eucKR
+ ibm-cp1133/Compose:lo.LA.IBM-CP1133
+ mulelao-1/Compose:lo.LA.MULELAO-1
+
+ iso8859-15/Compose:ny_NO.ISO8859-15
+ iso8859-1/Compose:oc_FR.ISO8859-1
+ iso8859-15/Compose:oc_FR.ISO8859-15
+ iso8859-1/Compose:pd_DE.ISO8859-1
+ iso8859-15/Compose:pd_DE.ISO8859-15
+ iso8859-15/Compose:pd_US.ISO8859-1
+ iso8859-15/Compose:pd_US.ISO8859-15
++iso8859-1/Compose:om_KE.ISO8859-1
++XCOMM Presumably, "pd" is "Pennsylvania Dutch", a U.S. dialect of German.
++XCOMM This is not an ISO language code defined for it, and the GNU C Library
++XCOMM doesn't support it.
++XCOMM iso8859-15/Compose:pd_DE.ISO8859-1
++XCOMM iso8859-15/Compose:pd_DE.ISO8859-15
++XCOMM iso8859-15/Compose:pd_US.ISO8859-1
++XCOMM iso8859-15/Compose:pd_US.ISO8859-15
+ iso8859-1/Compose:ph_PH.ISO8859-1
+ iso8859-2/Compose:pl_PL.ISO8859-2
+ iso8859-1/Compose:pp_AN.ISO8859-1
+ iso8859-1/Compose:pt_BR.ISO8859-1
+ iso8859-15/Compose:pt_BR.ISO8859-15
+ iso8859-1/Compose:pt_PT.ISO8859-1
+ iso8859-15/Compose:pt_PT.ISO8859-15
+ iso8859-2/Compose:ro_RO.ISO8859-2
+
+ iso8859-15/Compose:rw_RW.ISO8859-1
+ iso8859-2/Compose:sh_YU.ISO8859-2
+ iso8859-2/Compose:sk_SK.ISO8859-2
+ iso8859-2/Compose:sl_SI.ISO8859-2
++iso8859-1/Compose:so_DJ.ISO8859-1
++iso8859-1/Compose:so_KE.ISO8859-1
++iso8859-1/Compose:so_SO.ISO8859-1
+ iso8859-2/Compose:sq_AL.ISO8859-2
+ iso8859-2/Compose:sr_CS.ISO8859-2
+ iso8859-5/Compose:sr_CS.ISO8859-5
+
+ iso8859-15/Compose:zh_CN.ISO8859-15
+ zh_CN.gbk/Compose:zh_CN.ISO8859-15
+ zh_CN.gbk/Compose:zh_CN.ISO8859-15
+ zh_CN.gb18030/Compose:zh_CN.ISO8859-15
+ zh_HK.big5/Compose:zh_HK.ISO8859-15
++zh_HK.big5hkscs/Compose:zh_HK.ISO8859-15
++zh_HK.big5hkscs/Compose:zh_HK.ISO8859-15
++zh_HK.big5hkscs/Compose:zh_HK.ISO8859-15
++zh_HK.big5hkscs/Compose:zh_HK.ISO8859-15
++zh_HK.big5hkscs/Compose:zh_HK.ISO8859-15
++zh_HK.big5hkscs/Compose:zh_HK.ISO8859-15
++zh_HK.big5hkscs/Compose:zh_HK.ISO8859-15
++zh_CN/Compose:zh_CN.ISO8859-15
++zh_CN/Compose:zh_CN.ISO8859-15
++zh_CN/Compose:zh_CN.ISO8859-15
++zh_CN/Compose:zh_CN.ISO8859-15
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++zh_CN/Compose:zh_CN.ISO8859-15
++zh_CN/Compose:zh_CN.ISO8859-15
++zh_CN/Compose:zh_CN.ISO8859-15
++zh_CN/Compose:zh_CN.ISO8859-15
++zh_CN/Compose:zh-CN.gbk2312

Open Source Used In Intersight Kubernetes Service 1.0.15 18804
+--- libx11.orig/nls/locale.alias.pre
++++ libx11/nls/locale.alias.pre
@@ -311,6 +311,12 @@ en_CA.iso88591:en_CA.ISO8859-1
    en_CA.ISO-8859-1:en_CA.ISO8859-1
       en_CA.utf8:en_CA.UTF-8
      ++en_DK:en_DK.ISO8859-1
++en_DK.iso88591:en_DK.ISO8859-1
       ++en_DK.ISO-8859-1:en_DK.ISO8859-1
      ++en_DK.iso885915:en_DK.ISO8859-15
++en_DK.utf8:en_DK.UTF-8
   + en_DL.utf8:en_DL.UTF-8
   + en_GB:en_GB.ISO8859-1
       + en_GB.88591:en_GB.ISO8859-1
        +@ @ -364.6 +370.16 @@ en_US.8859-15:en_US.ISO8859-15
       + en_US.ISO8859-15@euro:en_US.ISO8859-15
       + en_US.utf8:en_US.UTF-8
      + EN_US.UTF-8:en_US.UTF-8
      ++en_US.88591:en_US.ISO8859-1
      ++en_US.iso88591:en_US.ISO8859-1
      ++en_US.ISO-8859-1:en_US.ISO8859-1
       ++en_US.ISO_8859-1:en_US.ISO8859-1
      ++en_US.iso885915:en_US.ISO8859-15
       ++en_US.ISO-8859-15:en_US.ISO8859-15
      ++en_US.ISO8859-15@euro:en_US.ISO8859-15
      ++en_US.utf8:en_US.UTF-8
      ++EN_US.UTF-8:en_US.UTF-8
   + en_ZA:en_ZA.ISO8859-1
      + en_ZA.88591:en_ZA.ISO8859-1
       + en_ZA.88591:en_ZA.ISO8859-1
        +@ @ -932.7 +948.6 @@ pt_BR.88591:en:pt_BR.ISO8859-1
       + pt_BR.iso88591:pt_BR.ISO8859-1
       + pt_BR.ISO-8859-1:pt_BR.ISO8859-1
       + pt_BR.ISO_8859-1:pt_BR.ISO8859-1
       + pt_BR.iso885915:pt_BR.ISO8859-15
       + pt_BR.utf8:pt_BR.UTF-8
       +@ @ -993.11 +1008.11 @@ XCOMM CS was the old ISO code for Serbia
      + XCOMM These lines should be deleted in the future.
      + sh: sr_RS.UTF-8@latin
      + sh_BA.ISO8859-2@bosnia: sr_CS.ISO8859-2
      + sh_HR.iso88592:hr_HR.ISO8859-2
      + sh_YU: sr_RS.UTF-8@latin
      + sh_YU.utf8: sr_RS.UTF-8@latin
The following locale names are used:

- american.iso88591:en_US.ISO8859-1
- arabic.iso88596:ar_AA.ISO8859-6
- bokmal:nb_NO.ISO8859-1
- catalan:ca_ES.ISO8859-1
- deutsch:de_DE.ISO8859-1
- dutch:nl_NL.ISO8859-1
- eesti:et_EE.ISO8859-1
- english.iso88591:en_EN.ISO8859-1
- estonian:et_EE.ISO8859-1
- finnish:fi_FI.ISO8859-1
- franais:fr_FR.ISO8859-1
- french:fr_FR.ISO8859-1
- galego:gl_ES.ISO8859-1

Index: libx11/nls/locale.dir.pre

+--- libx11.orig/nls/locale.dir.pre
+++ libx11/nls/locale.dir.pre
@@ -6,8 +6,11 @@

 iso8859-1/XLC_LOCALE:aa_DJ.ISO8859-1
 iso8859-1/XLC_LOCALE:af_ZA.ISO8859-1
 iso8859-15/XLC_LOCALE:an_ES.ISO8859-15
@@ -36,6 +39,7 @@
 iso8859-2/XLC_LOCALE:bs_BA.ISO8859-2
 iso8859-2/XLC_LOCALE:br_FR.ISO8859-2
 iso8859-2/XLC_LOCALE:bs_BA.ISO8859-2
@@ -86,6 +89,7 @@
 iso8859-2/XLC_LOCALE:ca_ES.ISO8859-2
 iso8859-2/XLC_LOCALE:cs_CZ.ISO8859-2
 iso8859-2/XLC_LOCALE:da_DK.ISO8859-2
 iso8859-2/XLC_LOCALE:da_DK.ISO8859-2
@@ -2219,11 +2222,11 @@
 dutch:nl_NL.ISO8859-1
 dutch.iso88591:nl_BE.ISO8859-1
 eesti:et_EE.ISO8859-1
+english.iso88591:en_US.ISO8859-1
+estonian:et_EE.ISO8859-1
+finnish:fi_FI.ISO8859-1
+franais:fr_FR.ISO8859-1
+french:fr_FR.ISO8859-1
+galego:gl_ES.ISO8859-1
Index: libx11/nls/locale.dir.pre
++zh_CN/XLC_LOCALE:zh_SG.gb2312
++zh_CN.gbk/XLC_LOCALE:zh_SG.gb
+ zh_TW.big5/XLC_LOCALE:zh_TW.big5
+ zh_TW/XLC_LOCALE:zh_TW.eucTW
+ iso8859-1/XLC_LOCALE:zu_ZA.ISO8859-1
+ XCOMM Note: The UTF-8 locales don't work correctly yet. Work in progress.
++en_US.UTF-8/XLC_LOCALE:aa_ER.UTF-8
++en_US.UTF-8/XLC_LOCALE:aa_ET.UTF-8
+ en_US.UTF-8/XLC_LOCALE:af_ZA.UTF-8
+ en_US.UTF-8/XLC_LOCALE:am_ET.UTF-8
+ en_US.UTF-8/XLC_LOCALE:ar_AA.UTF-8
+@ @ -297.6 +319.7 @@ en_US.UTF-8/XLC_LOCALE:bn_BD.UTF-8
+ en_US.UTF-8/XLC_LOCALE:bn_IN.UTF-8
+ en_US.UTF-8/XLC_LOCALE:bo_IN.UTF-8
+ en_US.UTF-8/XLC_LOCALE:br_FR.UTF-8
++en_US.UTF-8/XLC_LOCALE:byn_ER.UTF-8
+ en_US.UTF-8/XLC_LOCALE:ca_AD.UTF-8
+ en_US.UTF-8/XLC_LOCALE:ca_ES.UTF-8
+ en_US.UTF-8/XLC_LOCALE:ca_FR.UTF-8
+@ @ -334.7 +357.8 @@ en_US.UTF-8/XLC_LOCALE:en_UK.UTF-8
+ en_US.UTF-8/XLC_LOCALE:en_US.UTF-8
+ en_US.UTF-8/XLC_LOCALE:en_ZA.UTF-8
+ en_US.UTF-8/XLC_LOCALE:en_ZW.UTF-8
+ en_US.UTF-8/XLC_LOCALE:eo_EO.UTF-8
++XCOMM The EO territory doesn't exist in ISO 3166.
++XCOMM en_US.UTF-8/XLC_LOCALE:eo_EO.UTF-8
+ en_US.UTF-8/XLC_LOCALE:es_AR.UTF-8
+ en_US.UTF-8/XLC_LOCALE:es_BO.UTF-8
+@ @ -358.6 +382.7 @@ en_US.UTF-8/XLC_LOCALE:es_UY.UTF-8
+ en_US.UTF-8/XLC_LOCALE:es_VE.UTF-8
+ en_US.UTF-8/XLC_LOCALE:et_EE.UTF-8
+ en_US.UTF-8/XLC_LOCALE:eu_ES.UTF-8
++en_US.UTF-8/XLC_LOCALE:eu_FR.UTF-8
+ en_US.UTF-8/XLC_LOCALE:fa_IR.UTF-8
+ en_US.UTF-8/XLC_LOCALE:fi_FI.UTF-8
+ en_US.UTF-8/XLC_LOCALE:fo FO.UTF-8
+@ @ -368.6 +393.8 @@ en_US.UTF-8/XLC_LOCALE:fr_FR.UTF-8
+ en_US.UTF-8/XLC_LOCALE:fr_LU.UTF-8
+ en_US.UTF-8/XLC_LOCALE:ga_IE.UTF-8
+ en_US.UTF-8/XLC_LOCALE:gd_GB.UTF-8
++en_US.UTF-8/XLC_LOCALE:gez_ER.UTF-8
++en_US.UTF-8/XLC_LOCALE:gez_ET.UTF-8
+ en_US.UTF-8/XLC_LOCALE:gl_ES.UTF-8
+ en_US.UTF-8/XLC_LOCALE:gu_IN.UTF-8
+ en_US.UTF-8/XLC_LOCALE:gv_GB.UTF-8
+@ @ -382.6 +409.7 @@ en_US.UTF-8/XLC_LOCALE:is_IS.UTF-8
+ en_US.UTF-8/XLC_LOCALE:it_CH.UTF-8

Open Source Used In Intersight Kubernetes Service 1.0.15 18811
This patch by Wolfgang Sourdeau and Rüdiger Kuhlmann.

Account for lack of spacing diaeresis key and codepoint.

https://bugs.debian.org/97433

--- a/nls/iso8859-15/Compose.pre
+++ b/nls/iso8859-15/Compose.pre
@@ -155,8 +155,7 @@ XCOMM Special Character
  <Multi_key> <minus> <colon> : "\367" division
  <Multi_key> <colon> <minus> : "\367" division
+ <Multi_key> <x> <x> : "\327" multiply
+ <Multi_key> <apostrophe> <apostrophe> : "\264" acute
+ <Multi_key> <comma> <comma> : "\270" cedilla
++ <Multi_key> <apostrophe> <apostrophe> : "" apostrophe
+ <Multi_key> <quotedbl> <quotedbl> : "" quotedbl
+ XCOMM Accented Alphabet
  + <Multi_key> <A> <grave> : "\300" Agrave
  + <Multi_key> <A> <acute> : "\301" Aacute
  + <Multi_key> <A> <tilde> : "\303" Atilde
+ <Multi_key> <A> <cedilla> : "\307" Acedilla
+ <Multi_key> <A> <diaeresis> : "\304" Adiaeresis
+ <Multi_key> <A> <diaeresis> : "\304" Adiaeresis
+ <Multi_key> <A> <diaeresis> : "\304" Adiaeresis
+ <Multi_key> <A> <diaeresis> : "\304" Adiaeresis
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+ <Multi_key> <A> <diaeresis> : "\304" Adiaeresis
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+ <Multi_key> <A> <diaeresis> : "\304" Adiaeresis
+ <Multi_key> <A> <diaeresis> : "\304" Adiaeresis
+ <Multi_key> <A> <diaeresis> : "\304" Adiaeresis
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+ <Multi_key> <A> <diaeresis> : "\304" Adiaeresis
+ <Multi_key> <A> <diaeresis> : "\304" Adiaeresis
+ <Multi_key> <A> <diaeresis> : "\304" Adiaeresa
+ <Multi_key> <minus> <a>: "\343"atilde
+ <Multi_key> <a> <quotedbl>: "\344"diaeresis
+ <Multi_key> <quotedbl> <a>: "\344"diaeresis
+<Multi_key> <diaeresis> <a>: "\344"diaeresis
+ <Multi_key> <a> <asterisk>: "\345"aring
+ <Multi_key> <asterisk> <a>: "\345"aring
+ <Multi_key> <a>: "\345"aring
+@@ -231,8 +226,6 @@ XCOMM Accented Alphabet
+ <Multi_key> <greater> <E>: "\312"Ecircumflex
+ <Multi_key> <E> <quotedbl>: "\313"Ediaeresis
+ <Multi_key> <quotedbl> <E>: "\313"Ediaeresis
+<Multi_key> <diaeresis> <E>: "\313"Ediaeresis
+ <Multi_key> <e> <grave>: "\350"egrave
+ <Multi_key> <grave> <e>: "\350"egrave
+ <Multi_key> <e>: "\351"eacute
+@@ -245,8 +238,6 @@ XCOMM Accented Alphabet
+ <Multi_key> <greater> <e>: "\352"ecircumflex
+ <Multi_key> <e> <quotedbl>: "\353"ediaeresis
+ <Multi_key> <quotedbl> <e>: "\353"ediaeresis
+<Multi_key> <diaeresis> <e>: "\353"ediaeresis
+ <Multi_key> <I> <grave>: "\314"igrave
+ <Multi_key> <grave> <I>: "\314"igrave
+ <Multi_key> <I>: "\315"iacute
+@@ -259,8 +250,6 @@ XCOMM Accented Alphabet
+ <Multi_key> <greater> <I>: "\316"icircumflex
+ <Multi_key> <I> <quoteddbl>: "\317"Idiaeresis
+ <Multi_key> <quoteddbl> <I>: "\317"Idiaeresis
+<Multi_key> <diaeresis> <I>: "\317"Idiaeresis
+ <Multi_key> <i> <grave>: "\354"igrave
+ <Multi_key> <grave> <i>: "\354"igrave
+ <Multi_key> <i>: "\355"iacute
+@@ -273,8 +262,6 @@ XCOMM Accented Alphabet
+ <Multi_key> <greater> <i>: "\356"icircumflex
+ <Multi_key> <i> <quoteddbl>: "\357"idiaeresis
+ <Multi_key> <quoteddbl> <i>: "\357"idiaeresis
+<Multi_key> <diaeresis> <i>: "\357"idiaeresis
+ <Multi_key> <N> <asciitilde>: "\321"Ntilde
+ <Multi_key> <asciitilde> <N>: "\321"Ntilde
+ <Multi_key> <N>: <minus>: "\321"Ntilde
+@@ -299,8 +286,6 @@ XCOMM Accented Alphabet
+ <Multi_key> <minus> <O>: "\325"Otilde
+ <Multi_key> <O> <quoteddbl>: "\326"Odiaeresis
+ <Multi_key> <quoteddbl> <O>: "\326"Odiaeresis
+++ XCOMM Remove ko/Compose, as requested in https://bugs.debian.org/89703
++XCOMM ko/Compose:ko_KR.eucKR
+ ibm-cp1133/Compose:lo_LA.IBM-CP1133
+ mulelao-l/Compose:lo_LA.MULELAO-1
+ iso8859-4/Compose:lt_LT.ISO8859-4
--- libx11-1.6.7.orig/debian/patches/009_remove_th_Compose.diff
+++ libx11-1.6.7/debian/patches/009_remove_th_Compose.diff
@@ @ -0.0 +1,14 @@
++XCOMM Following entry commented to allow Thai XIM as default for X apps
++XCOMM See Debian bug#520509
+++ libx11-1.6.7/debian/patches/015_russian_locale_alias.diff
++XCOMM Used In Intersight Kubernetes Service 1.0.15  18816
Fix Russian locale. Closes: #368655.

This aligns with the glibc definition in /usr/share/locale/locale.alias.
This only applies to Debian's glibc, see bug #62586 and glibc 2.2.5-4.

For the same glib reason, we cannot change ru and ru_RU away from ISO8859-5,
since that encoding is enshrined in /usr/share/i18n/locales/ru_RU. Insert
appropriate perjorative language here.

Suggestion: can the Russian default be changed to UTF-8 instead of KOI8-R?
This will make it easier for Russians to fit in with the rest of the world.

Index: libx11/nls/locale.alias.pre
===================================================================
@@ -1274,7 +1274,7 @@
     portuguese.iso88591:		pt_PT.ISO8859-1
     romanian:ro_RO.ISO8859-2
     rumanian:ro_RO.ISO8859-2
-    russian:		ru_RU.ISO8859-5
++    russian:		ru_RU.KOI8-R
     serbocroatian:sr_RS.UTF-8@latin
     sinhala:si_LK.UTF-8
     slovak:sk_SK.ISO8859-2
--- libx11-1.6.7.orig/debian/patches/series
+++ libx11-1.6.7/debian/patches/series
@@ -0,0 +1,5 @@
+003_recognize_glibc_2.3.2_locale_names.diff
+007_iso8859-15_Compose_fix.diff
+008_remove_ko_Compose.diff
+009_remove_th_Compose.diff
+015_russian_locale_alias.diff
--- libx11-1.6.7.orig/debian/rules
+++ libx11-1.6.7/debian/rules
@@ -0,0 +1,30 @@
#!/usr/bin/make -f
+
+override_dh_auto_configure-indep: docflags = --enable-specs --with-xmlto
+override_dh_auto_configure-arch: docflags = --disable-specs
+
+override_dh_auto_configure-indep override_dh_auto_configure-arch:
dh_auto_configure -- 
+$docflags 

Open Source Used In Intersight Kubernetes Service 1.0.15 18817
---without-fop
+
+override_dh_installdocs:
+dh_installdocs NEWS
+
+override_dh_install:
+# Kill *.xml files, we don't need them:
+find debian/tmp -name '*.xml' -delete
+dh_install -plibx11-dev \n+
+ --exclude=usr/include/X11/Xlib-xcb.h
+
+dh_install -plibx11-doc \n+
+ --exclude=usr/include/X11/Xlib-xcb.h \n+
+ --exclude=usr/share/man/man3/XGetxcbConnection.3 \n+
+ --exclude=usr/share/man/man3/XSetEventQueueOwner.3
+
+dh_install --remaining-packages
+
+override_dh_makeshlibs:
+dh_makeshlibs -s -plibx11-6 -V'libx11-6 (>= 2:1.6.0)' --add-udeb=libx11-6-udeb -- -c4
+
+dh_makeshlibs -s -Nlibx11-6 -- -c4
+++
libx11-1.6.7.debian/source/format
@@ -0,0 +1 @@
1.0
+
++
libx11-1.6.7.debian/upstream/signing-key.asc
@@ -0,0 +1,320 @@
+-BEGIN PGP PUBLIC KEY BLOCK-----
+Version: GnuPG v1
+
+mQGiBEaab+moRBACDH5yKqS3wcc5bdxY7PBNUuwKvF5TKMfagmnSuvRDiZji1WaA/n
+Z1KboV9Qg5q5k7Kp7+kFuf+Qgd8u65eVsWwmP90lXvji3aCU53gIjx2EdGdrHcgyiH2g
+EQfPiywBw+trlpFWRFV0lDXSLMA1FN9C9t2nSG/VFHaPTVwcgkIRSfcXDwvCglGdE
+af6uLqoNHP+m4Y2nZapuFUMd/R4+2AJDAvEWKkJcYCGZGZlawjAmmWyXmT7/C/mx9
+8qaURj314buXjHgDKkXHhDqzi1vk85P1krXvNJDCCmlHUJNz+QwiAMOLpdpd+kwV
+Pb57RG7y+a5J5Q+jtVw4RJZlzk/wj2An9YB03A5vR77dpjM32ZJCN2+aM4dYFmNzQ
+xQKTA/47icvBavBT19rzttjg2pd2Aqpc1IP/GsfLYLGIj7xjmnJvGAENBHS1QipZM5JG
+CT9joa+80/wr1r+pA+MdFgYAb6ojMQJO06UChjWWSGjmFScs/CexhILBido3DtAE
+ThBntW06OfEFVdVQvTdhJFtvwZJz+zZGqY5Cr2F9d9Pu89amaShQoQWhibiBDb29w
+ZZXjzBw10aCA8YWyhbmNAlZJZWRlc2tob3Aub3JnPohoBBMRAGooAhSDgscJCAcD
+AgYvCAlCaCgsFgqIDAqLeAQXgcAUCUXnRygUFJEPYeAAKCRci+54Hy0TDoxnAKCP
+ccAgXNofjuvq5Wq6o10RBFVSUgCggq1SvEDq97NDwVxkeGyNaBivSK0KFsYW4g
+Q29vcGVyc21pdGggPGFsYW4uY29vcGVyc21pdGhcAc3VuLPvT6kZgQTEQIAjglb
+AwYLCqHAnlFqIaIAQWAgMBAh4BABeaBuQeQIReDFBiQusUQb44AMeOHK77ngFLRMO
+6sUAn0jli3h9rY4OJ31L7usKcylhDpOqAACKFgTmaDGRuXDrLoG9ftrn7a7vvrQh
+QWxhbiBDb29wZXJzbWl0aCA8YWyhbi5jb29wZXJzbWl0aEBvcmFjbGUuY29tPohr
+BBMRAGoAhSDgsJCAcDAgYVCAlCaCgsFgqIDAqLeAQXgAIgAZACUXnRygUFJEPY
+eAAKCRci+54Hy0TDxZBZ9Jl9vVNQoFIPRjTsNjScFzLmzDRJgCcc/WgY312IrXs
+Q8PRAyEgoZSB9Ke5A0ERpv6bxAIAJspuUlho5rUhpS6ik7spsASQPRuyczPKMUo

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfe2bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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**1.1649 glob 7.1.6**

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1.1652 libusb 2:1.0.21 2

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c0f2bb5b6.

  Author: Julio Merino <jmmv@sNetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

  Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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<!-- $Id$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">
  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>
  <xsl:variable name="isc.copyright.text">
    This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:variable>
</xsl:stylesheet>
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0ubuntu2~18.04.1
1.1667 ssl-client 1.33.1-r6

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1.1671 debianutils 4.8.1.1

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1.1673 iputils-ping 3:20161105 1ubuntu3

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It has been maintained for Debian by Noah Meyerhans <noahm@debian.org> since 6 Feb 2001.

It was downloaded from https://github.com/iputils/iputils

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.
Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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

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

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   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:

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

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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.

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

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

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

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

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and:

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It was previously maintained by Christopher C. Chimelis <chris@debian.org>


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1.1679 fonts-ubuntu-console 0.83 2
1.1679.1 Available under license:

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: Ubuntu Font Family
Upstream-Contact: Paul Sladen <ubuntu@paul.sladen.org>
Source: https://design.ubuntu.com/font/
Comment: The Debian Project considers the Ubuntu Font License 1.0 to not be
an acceptable license for inclusion in Debian under the Debian Free Software
Guidelines. Therefore, this package is only available in non-free.
Also, Debian would prefer the font build from source in Debian instead of
as pre-built TTF files. See https://bugs.debian.org/603157 for more details.

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Ubuntu Font Family Licensing FAQ

Stylistic Foundations

The Ubuntu Font Family is the first time that a libre typeface has been designed professionally and explicitly with the intent of developing a public and long-term community-based development process.

When developing an open project, it is generally necessary to have firm foundations: a font needs to maintain harmony within itself even across many type designers and writing systems. For the Ubuntu Font Family, the process has been guided with the type foundry Dalton Maag setting the project up with firm stylistic foundation covering several left-to-right scripts: Latin, Greek and Cyrillic; and right-to-left scripts: Arabic and Hebrew (due in 2011).

With this starting point the community will, under the supervision of Canonical and Dalton Maag, be able to build on the existing font sources to expand their character coverage. Ultimately everybody will be able to use the Ubuntu Font Family in their own written languages across the whole of Unicode (and this will take some time!).
The licence chosen by any free software project is one of the foundational decisions that sets out how derivatives and contributions can occur, and in turn what kind of community will form around the project.

Using a licence that is compatible with other popular licences is a powerful constraint because of the network effects: the freedom to share improvements between projects allows free software to reach high-quality over time. Licence-proliferation leads to many incompatible licences, undermining the network effect, the freedom to share and ultimately making the libre movement that Ubuntu is a part of less effective. For all kinds of software, writing a new licence is not to be taken lightly and is a choice that needs to be thoroughly justified if this path is taken.

Today it is not clear to Canonical what the best licence for a font project like the Ubuntu Font Family is: one that starts life designed by professionals and continues with the full range of community development, from highly commercial work in new directions to curious beginners’ experimental contributions. The fast and steady pace of the Ubuntu release cycle means that an interim libre licence has been necessary to enable the consideration of the font family as part of Ubuntu 10.10 operating system release.

Before taking any decision on licensing, Canonical as sponsor and backer of the project has reviewed the many existing licenses used for libre/open fonts and engaged the stewards of the most popular licenses in detailed discussions. The current interim licence is the first step in progressing the state-of-the-art in licensing for libre/open font development.

The public discussion must now involve everyone in the (comparatively new) area of the libre/open font community; including font users, software freedom advocates, open source supporters and existing libre font developers. Most importantly, the minds and wishes of professional type designers considering entering the free software business community must be taken on board.

Conversations and discussion has taken place, privately, with individuals from the following groups (generally speaking personally on behalf of themselves, rather than their affiliations):

* [5]SIL International
* [6]Open Font Library
* [7]Software Freedom Law Center
* [8]Google Font API

Document embedding
One issue highlighted early on in the survey of existing font licences is that of document embedding. Almost all font licences, both free and unfree, permit embedding a font into a document to a certain degree. Embedding a font with other works that make up a document creates a "combined work" and copyleft would normally require the whole document to be distributed under the terms of the font licence. As beautiful as the font might be, such a licence makes a font too restrictive for useful general purpose digital publishing.

The situation is not entirely unique to fonts and is encountered also with tools such as GNU Bison: a vanilla GNU GPL licence would require anything generated with Bison to be made available under the terms of the GPL as well. To avoid this, Bison is published with an additional permission to the GPL which allows the output of Bison to be made available under any licence.

The conflict between licensing of fonts and licensing of documents, is addressed in two popular libre font licences, the SIL OFL and GNU GPL:
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* [12]GPL Font Exception: The situation is resolved by granting an additional permission to allow documents to not be covered by the GPL. (The exception is being reviewed).

The Ubuntu Font Family must also resolve this conflict, ensuring that if the font is embedded and then extracted it is once again clearly under the terms of its libre licence.

Long-term licensing

Those individuals involved, especially from Ubuntu and Canonical, are interested in finding a long-term libre licence that finds broad favour across the whole libre/open font community. The deliberation during the past months has been on how to licence the Ubuntu Font Family in the short-term, while knowingly encouraging everyone to pursue a long-term goal.
* [13]Copyright assignment will be required so that the Ubuntu Font Family’s licensing can be progressively expanded to one (or more) licences, as best practice continues to evolve within the libre/open font community.
* Canonical will support and fund legal work on libre font licensing. It is recognised that the cost and time commitments required are likely to be significant. We invite other capable parties to join in supporting this activity.

The GPL version 3 (GPLv3) will be used for Ubuntu Font Family build scripts and the CC-BY-SA for associated documentation and non-font
content: all items which do not end up embedded in general works and documents.

Ubuntu Font Licence

For the short-term only, the initial licence is the [14]Ubuntu Font License (UFL). This is loosely inspired from the work on the SIL OFL 1.1, and seeks to clarify the issues that arose during discussions and legal review, from the perspective of the backers, Canonical Ltd. Those already using established licensing models such as the GPL, OFL or Creative Commons licensing should have no worries about continuing to use them. The Ubuntu Font Licence (UFL) and the SIL Open Font Licence (SIL OFL) are not identical and should not be confused with each other. Please read the terms precisely. The UFL is only intended as an interim license, and the overriding aim is to support the creation of a more suitable and generic libre font licence. As soon as such a licence is developed, the Ubuntu Font Family will migrate to it made possible by copyright assignment in the interim. Between the OFL 1.1, and the UFL 1.0, the following changes are made to produce the Ubuntu Font Licence:

* Clarification:

2. Apply at point of distribution, instead of receipt
3. Author vs. copyright holder disambiguation (type designers are authors, with the copyright holder normally being the funder)
4. Define "Propagate" (for internationalisation, similar to the GPLv3)
5. Define "Substantially Changed"
6. Trademarks are explicitly not transferred
7. Refine renaming requirement

Streamlining:
8. Remove "not to be sold separately" clause
9. Remove "Reserved Font Name(s)" declaration

A visual demonstration of how these points were implemented can be found in the accompanying coloured diff between SIL OFL 1.1 and the Ubuntu Font Licence 1.0: [16]ofl-1.1-ufl-1.0.diff.html

References

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1.1680 kmod 25-13.el8
1.1680.1 Available under license :

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@end enumerate

@page
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@smlalexample
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with the Invariant Sections being @var{list their titles}, with the Front-Cover Texts being @var{list}, and with the Back-Cover Texts being @var{list}.
@end group
@end small example

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@c ispell-local-pdict: "ispell-dict"
@c End:

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c5ff2bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and piostream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

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= vendor/github.com/golang/protobuf/LICENSE 939cce1ec101726fa754e698ac871622 package migration
import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin     string
    Option     string
    Severity   string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version    string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(` It is replaced by "%v" `, n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}

const (
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated = "deprecated" // deprecated, but still completely functional
    ignored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
    removed     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
    newdefault  = "newdefault"  // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool

    // The following statuses are used for selecting/filtering notifications
    all = "all" // show all statuses
)
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# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `:<path>`
- Remote file format is `<pod-name>:<path>`

```
bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `:<path>`
- Remote file format is `<pod-name>:<path>`

```
bash
```
```bash
touch <some-pod>:/tmp/foo
```

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
touch /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>/`.

- `<pod-namespace>/<pod-name>:<path>`

```bash
touch /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

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package simulator

import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: 
        "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {Key: "feature",
            Value: types.KeyValue{
                Key: "serialuri:2",
                Value: "Remote virtual Serial Port Concentrator",
            },
        },
        {Key: "feature",
            Value: types.KeyValue{
                Key: "dvs",
            },
type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self: ref,
        Licenses: []types.LicenseManagerLicenseInfo{EvalLicense}
    }

    if Map.IsVFX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }

    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{},
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:     req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:     req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

    return body
}
for i, license := range m.Licenses {
    if req.LicenseKey == license.LicenseKey {
        m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...) 
        return body
    }
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{

    for i := range m.Licenses {
        license := &m.Licenses[i]

        if req.LicenseKey != license.LicenseKey {
            continue
        }

        body.Res = new(types.UpdateLicenseLabelResponse)

        for j := range license.Labels {
            label := &license.Labels[j]

            if label.Key == req.LabelKey {
                if req.LabelValue == "" {
                    license.Labels = append(license.Labels[:i], license.Labels[i+1:]...) 
                } else {
                    label.Value = req.LabelValue
                }
                return body
            }
        }

        license.Labels = append(license.Labels, types.KeyValue{
            Key:   req.LabelKey,
            Value: req.LabelValue,
        })

        return body
    }

    body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
    return body
}
type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {
            EntityId: req.EntityId,
            AssignedLicense: EvalLicense,
        },
    }

    return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense
    info.LicenseKey = key
    info.Labels = labels

    return info
}

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Current versions of the ncurses sources are found at
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Local-Date: Fri, 06 Jun 2003 13:18:52 -0400
Date: Fri, 6 Jun 2003 10:18:52 -0700
From: Juan Gomez <juang@us.ibm.com>
To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

Stephen,

"There is no restriction on modifications and derived works" on the work I did for the openldap server as long as this is consistent with the openldap license. Please forward this email to Kurt so he does the appropriate changes to the files to reflect this.

Regards, Juan

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MA
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Local-Date: Thu, 05 Jun 2003 16:53:32 -0400
Date: Thu, 5 Jun 2003 16:53:32 -0400 (EDT)
From: Mark Adamson <adamson@andrew.cmu.edu>
To: Stephen Frost <sfrost@debian.org>
Subject: Re: Mark Adamson license in OpenLDAP source

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---
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---

* To: Stephen Frost <sfrost@snowman.net>
* Subject: Re: OpenLDAP Licenseing issues
* From: "Kurt D. Zeilenga" <Kurt@OpenLDAP.org>
* Date: Wed, 28 May 2003 10:55:44 -0700
* Cc: Steve Langasek <vorlon@netexpress.net>,debian-legal@lists.debian.org, openldap-devel@OpenLDAP.org
* In-reply-to: <20030528162613.GB8524@ns.snowman.net>
* Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>
* Old-return-path: <Kurt@OpenLDAP.org>
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1.1715 libstd-c 8.3.0 6

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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@end enumerate

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@heading END OF TERMS AND CONDITIONS

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@smallexample
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}

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@end smallexample

Also add information on how to contact you by electronic and paper mail.
If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

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}@c man end

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

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

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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.

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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.

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

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

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

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

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

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performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots
has a purpose that is entirely well-defined independent of the
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1.1716 end-of-stream 1.4.1

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1.1720 linux-headers-4.15.0-156-generic

4.15.0 156.163

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^L

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1.1724 perl-base 5.28.1 6

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This package was debianized by Brendan O'Dea <bod@debian.org> on
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Upstream Authors:

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- dist/Devel-SelfStubber/*
- dist/Dumpvalue/*
- dist/Env/*
- dist/ExtUtils-Command/*
- dist/ExtUtils-Manifest/*
- dist/I18N-Collate/*
- dist/Safe/*
- ext/Fcntl/*
- ext/FileCache/*
- ext/GDBM_File/*
- ext/IPC-Open2/*
- ext/IPC-Open3/*
- ext/NDBM_File/*
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=<br>
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<<br>
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<

%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.c) $< <br>
| sed "s/\(\$\(\$\)\)/o : /g" > $@ ; \
[ -s $@ ] || rm -f $@"

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.cc) $< <br>
| sed "s/\(\$\(\$\)\)/o : /g" > $@ ; \
[ -s $@ ] || rm -f $@"
## Versioned libraries rules

%.SO.$(SO_TARGET_VERSION_MAJOR): %.SO.$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.SO: %.SO.$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

1.1726 google-golang-org-genproto 0.0.0-20210903162649-d08c68adba83

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1.1727 libext2fs2 1.44.1 1ubuntu1.3
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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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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

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-  
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--- tdbusa.orig/tdb.c
+++ tdbusa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
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- Unix SMB/CIFS implementation.
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--- tdbusa.orig/tdb.c
+++ tdbusa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
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#
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Theodore Ts'o
23-June-2007

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* configure.ac, Makefile.am: The original versions were derived from the
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Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived from the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5caff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was
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----------------------------------------------------------------------------------
1.1734 perl-threads 2.21-2.el8

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=head1 NAME

threads - Perl interpreter-based threads

=head1 VERSION

This document describes threads version 2.21

=head1 WARNING

The "interpreter-based threads" provided by Perl are not the fast, lightweight system for multitasking that one might expect or hope for. Threads are implemented in a way that make them easy to misuse. Few people know how to use them correctly or will be able to provide help.

The use of interpreter-based threads in perl is officially L<discouraged|perlpolicy/discouraged>.

=head1 SYNOPSIS

use threads ('yield',
    'stack_size' => 64*4096,
    'exit' => 'threads_only',
    'stringify');

sub start_thread {
    my @args = @_;
    print("Thread started: ", join(" ", @args), ":n");
my $thr = threads->create('start_thread', 'argument');
$thr->join();

threads->create(sub { print("I am a thread\n"); })->join();

my $thr2 = async { foreach (@files) { ... } }; $thr2->join();
if (my $err = $thr2->error()) {
    warn("Thread error: $err\n");
}

# Invoke thread in list context (implicit) so it can return a list
my ($thr) = threads->create(sub { return (qw/a b c/); });
# or specify list context explicitly
my $thr = threads->create('context' => 'list'),
    sub { return (qw/a b c/); });
my @results = $thr->join();

$thr->detach();

# Get a thread's object
$thr = threads->self();
$thr = threads->object($tid);

# Get a thread's ID
$tid = threads->tid();
$tid = $thr->tid();
$tid = "$thr";

# Give other threads a chance to run
threads->yield();
yield();

# Lists of non-detached threads
my @threads = threads->list();
my $thread_count = threads->list();
my @running = threads->list(threads::running);
my @joinable = threads->list(threads::joinable);

# Test thread objects
if ($thr1 == $thr2) {
    ...
}

# Manage thread stack size
$stack_size = threads->get_stack_size();


$old_size = threads->set_stack_size(32*4096);

# Create a thread with a specific context and stack size
my $thr = threads->create({ 'context'    => 'list',
                             'stack_size' => 32*4096,
                             'exit'       => 'thread_only' },
                             \&foo);

# Get thread's context
my $wantarray = $thr->wantarray();

# Check thread's state
if ($thr->is_running()) {
    sleep(1);
}
if ($thr->is_joinable()) {
    $thr->join();
}

# Send a signal to a thread
$thr->kill('SIGUSR1');

# Exit a thread
threads->exit();

=head1 DESCRIPTION

Since Perl 5.8, thread programming has been available using a model called
I<interpreter threads> which provides a new Perl interpreter for each
thread, and, by default, results in no data or state information being shared
between threads.

(Prior to Perl 5.8, I<5005threads> was available through the C<Thread.pm> API.
This threading model has been deprecated, and was removed as of Perl 5.10.0.)

As just mentioned, all variables are, by default, thread local. To use shared
variables, you need to also load L<threads::shared>:

    use threads;
    use threads::shared;

When loading L<threads::shared>, you must C<use threads> before you
C<use threads::shared>. (C<threads> will emit a warning if you do it the
other way around.)

It is strongly recommended that you enable threads via C<use threads> as early
as possible in your script.
If needed, scripts can be written so as to run on both threaded and
non-threaded Perls:
my $can_use_threads = eval 'use threads; 1';
if ($can_use_threads) {
# Do processing using threads
...
} else {
# Do it without using threads
...
}
=over
=item $thr = threads->create(FUNCTION, ARGS)
This will create a new thread that will begin execution with the specified
entry point function, and give it the I<ARGS> list as parameters. It will
return the corresponding threads object, or C<undef> if thread creation failed.
I<FUNCTION> may either be the name of a function, an anonymous subroutine, or
a code ref.
my $thr = threads->create('func_name', ...);
# or
my $thr = threads->create(sub { ... }, ...);
# or
my $thr = threads->create(\&func, ...);
The C<-E<gt>new()> method is an alias for C<-E<gt>create()>.
=item $thr->join()
This will wait for the corresponding thread to complete its execution. When
the thread finishes, C<-E<gt>join()> will return the return value(s) of the
entry point function.
The context (void, scalar or list) for the return value(s) for C<-E<gt>join()>
is determined at the time of thread creation.
# Create thread in list context (implicit)
my ($thr1) = threads->create(sub {
my @results = qw(a b c);
return (@results);
});
# or (explicit)
my $thr1 = threads->create({'context' => 'list'},
sub {

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my @results = qw(a b c);
return (@results);
});

# Retrieve list results from thread
my @res1 = $thr1->join();

# Create thread in scalar context (implicit)
my $thr2 = threads->create(sub {
    my $result = 42;
    return ($result);
});

# Retrieve scalar result from thread
my $res2 = $thr2->join();

# Create a thread in void context (explicit)
my $thr3 = threads->create({'void' => 1},
    sub { print("Hello, world\n"); });

# Join the thread in void context (i.e., no return value)
$thr3->join();

See L</"THREAD CONTEXT"> for more details.

If the program exits without all threads having either been joined or detached, then a warning will be issued.

Calling C<-E<gt>join()> or C<-E<gt>detach()> on an already joined thread will cause an error to be thrown.

=item $thr->detach()

Makes the thread unjoinable, and causes any eventual return value to be discarded. When the program exits, any detached threads that are still running are silently terminated.

If the program exits without all threads having either been joined or detached, then a warning will be issued.

Calling C<-E<gt>join()> or C<-E<gt>detach()> on an already detached thread will cause an error to be thrown.

=item threads->detach()

Class method that allows a thread to detach itself.

=item threads->self()

Class method that allows a thread to obtain its own I<threads> object.
=item $thr->tid()

Returns the ID of the thread. Thread IDs are unique integers with the main thread in a program being 0, and incrementing by 1 for every thread created.

=item threads->tid()

Class method that allows a thread to obtain its own ID.

=item "$thr"

If you add the C<stringify> import option to your C<use threads> declaration, then using a threads object in a string or a string context (e.g., as a hash key) will cause its ID to be used as the value:

```perl
use threads qw(stringify);
my $thr = threads->create(...);
print("Thread $thr started
");  # Prints: Thread 1 started
```

=item threads->object($tid)

This will return the I<threads> object for the I<active> thread associated with the specified thread ID. If C<$tid> is the value for the current thread, then this call works the same as C<-E<gt>self()>. Otherwise, returns C<undef> if there is no thread associated with the TID, if the thread is joined or detached, if no TID is specified or if the specified TID is undefined.

=item threads->yield()

This is a suggestion to the OS to let this thread yield CPU time to other threads. What actually happens is highly dependent upon the underlying thread implementation.

You may do C<use threads qw(yield)>, and then just use C<yield()> in your code.

=item threads->list()

=item threads->list(threads::all)

=item threads->list(threads::running)

=item threads->list(threads::joinable)

With no arguments (or using C<threads::all>) and in a list context, returns a list of all non-joined, non-detached I<threads> objects. In a scalar context, returns a count of the same.
With a `I<true>` argument (using `C<threads::running>`), returns a list of all non-joined, non-detached `I<threads>` objects that are still running.

With a `I>false` argument (using `C<threads::joinable>`), returns a list of all non-joined, non-detached `I<threads>` objects that have finished running (i.e., for which `C<-E<gt>join()>` will not `I<block>`).

=item $thr1->equal($thr2)

Tests if two threads objects are the same thread or not. This is overloaded to the more natural forms:

```perl
if ($thr1 == $thr2) {
    print("Threads are the same\n");
}
# or
if ($thr1 != $thr2) {
    print("Threads differ\n");
}
```

(39) Thread comparison is based on thread IDs.)

=item async BLOCK;

`C<async>` creates a thread to execute the block immediately following it. This block is treated as an anonymous subroutine, and so must have a semicolon after the closing brace. Like `C<threads-E<gt>create()>`, `C<async>` returns a `I<threads>` object.

=item $thr->error()

Threads are executed in an `C<eval>` context. This method will return `C<undef>` if the thread terminates `I<normally>`. Otherwise, it returns the value of `C<$@>` associated with the thread's execution status in its `C<eval>` context.

=item $thr->_handle()

This `I<private>` method returns a pointer (i.e., the memory location expressed as an unsigned integer) to the internal thread structure associated with a threads object. For Win32, this is a pointer to the `C<HANDLE>` value returned by `C<CreateThread>` (i.e., `C<HANDLE *>`); for other platforms, it is a pointer to the `C<pthread_t>` structure used in the `C<pthread_create>` call (i.e., `C<pthread_t *>`).

This method is of no use for general Perl threads programming. Its intent is to provide other (XS-based) thread modules with the capability to access, and possibly manipulate, the underlying thread structure associated with a Perl
thread.

=item threads->_handle()

Class method that allows a thread to obtain its own I<handle>.

=back

=head1 EXITING A THREAD

The usual method for terminating a thread is to
L<return()> from the entry point function with the
appropriate return value(s).

=over

=item threads->exit()

If needed, a thread can be exited at any time by calling
C<threads-E<gt>exit()>.  This will cause the thread to return C<undef> in a
scalar context, or the empty list in a list context.

When called from the I<main> thread, this behaves the same as C<exit(0)>.

=item threads->exit(status)

When called from a thread, this behaves like C<threads-E<gt>exit()> (i.e., the
exit status code is ignored).

When called from the I<main> thread, this behaves the same as C<exit(status)>.

=item die()

Calling C<die()> in a thread indicates an abnormal exit for the thread.  Any
C<$SIG{__DIE__}> handler in the thread will be called first, and then the
thread will exit with a warning message that will contain any arguments passed
in the C<die()> call.

=item exit(status)

Calling L<exit()> inside a thread causes the whole
application to terminate.  Because of this, the use of C<exit()> inside
threaded code, or in modules that might be used in threaded applications, is
strongly discouraged.

If C<exit()> really is needed, then consider using the following:

    threads->exit() if threads->can('exit');  # Thread friendly
exit(status);

=item use threads 'exit' =&gt; 'threads_only'

This globally overrides the default behavior of calling C<exit()> inside a thread, and effectively causes such calls to behave the same as C<threads-E&gt;exit()]. In other words, with this setting, calling C<exit()> causes only the thread to terminate.

Because of its global effect, this setting should not be used inside modules or the like.

The I<main> thread is unaffected by this setting.

=item threads-&gt;create({'exit' =&gt; 'thread_only'}, ...)

This overrides the default behavior of C<exit()> inside the newly created thread only.

=item $thr-&gt;set_thread_exit_only(boolean)

This can be used to change the I<exit thread only> behavior for a thread after it has been created. With a I<true> argument, C<exit()> will cause only the thread to exit. With a I<false> argument, C<exit()> will terminate the application.

The I<main> thread is unaffected by this call.

=item threads-&gt;set_thread_exit_only(boolean)

Class method for use inside a thread to change its own behavior for C<exit()>.

The I<main> thread is unaffected by this call.

=back

=head1 THREAD STATE

The following boolean methods are useful in determining the I&lt;state&gt; of a thread.

=over

=item $thr-&gt;is_running()

Returns true if a thread is still running (i.e., if its entry point function has not yet finished or exited).
Returns true if the thread has finished running, is not detached and has not yet been joined. In other words, the thread is ready to be joined, and a call to \texttt{C<$thr-E<gt>join()>} will not I<block>.

Returns true if the thread has been detached.

Class method that allows a thread to determine whether or not it is detached.

As with subroutines, the type of value returned from a thread's entry point function may be determined by the thread's I<context>: list, scalar or void. The thread's context is determined at thread creation. This is necessary so that the context is available to the entry point function via \texttt{L<wantarray()>|perlfunc/"wantarray">}. The thread may then specify a value of the appropriate type to be returned from \texttt{C<-E<gt>join()>}.

Because thread creation and thread joining may occur in different contexts, it may be desirable to state the context explicitly to the thread's entry point function. This may be done by calling \texttt{C<-E<gt>create()>} with a hash reference as the first argument:

\begin{verbatim}
my $thr = threads->create({'context' => 'list'}, \&foo);
...
my @results = $thr->join();
\end{verbatim}

In the above, the threads object is returned to the parent thread in scalar context, and the thread's entry point function \texttt{C<foo>} will be called in list (array) context such that the parent thread can receive a list (array) from the \texttt{C<-E<gt>join()>} call. (C<'array'> is synonymous with C<'list'>.)

Similarly, if you need the threads object, but your thread will not be returning a value (i.e., I<void> context), you would do the following:

\begin{verbatim}
my $thr = threads->create({'context' => 'void'}, \&foo);
...
$thr->join();
\end{verbatim}
The context type may also be used as the \texttt{key} in the hash reference followed by a \texttt{true} value:

\begin{verbatim}
threads->create({'scalar' => 1}, \&foo);
...
my ($thr) = threads->list();
my $result = $thr->join();
\end{verbatim}

=head2 Implicit context

If not explicitly stated, the thread's context is implied from the context of the \texttt{create()} call:

\begin{verbatim}
# Create thread in list context
my ($thr) = threads->create(...);

# Create thread in scalar context
my $thr = threads->create(...);

# Create thread in void context
threads->create(...);
\end{verbatim}

=head2 $thr->wantarray()

This returns the thread's context in the same manner as \texttt{wantarray()}.

=head2 threads->wantarray()

Class method to return the current thread's context. This returns the same value as running \texttt{wantarray()} inside the current thread's entry point function.

=head1 THREAD STACK SIZE

The default per-thread stack size for different platforms varies significantly, and is almost always far more than is needed for most applications. On Win32, Perl's makefile explicitly sets the default stack to 16 MB; on most other platforms, the system default is used, which again may be much larger than is needed.

By tuning the stack size to more accurately reflect your application's needs, you may significantly reduce your application's memory usage, and increase the number of simultaneously running threads.

Note that on Windows, address space allocation granularity is 64 KB, therefore, setting the stack smaller than that on Win32 Perl will not save any more memory.
=over

=item threads->get_stack_size();

Returns the current default per-thread stack size. The default is zero, which
means the system default stack size is currently in use.

=item $size = $thr->get_stack_size();

Returns the stack size for a particular thread. A return value of zero
indicates the system default stack size was used for the thread.

=item $old_size = threads->set_stack_size($new_size);

Sets a new default per-thread stack size, and returns the previous setting.

Some platforms have a minimum thread stack size. Trying to set the stack size
below this value will result in a warning, and the minimum stack size will be
used.

Some Linux platforms have a maximum stack size. Setting too large of a stack
size will cause thread creation to fail.

If needed, C<$new_size> will be rounded up to the next multiple of the memory
page size (usually 4096 or 8192).

Threads created after the stack size is set will then either call
C<pthread_attr_setstacksize()> I<(for pthreads platforms)>, or supply the
stack size to C<CreateThread()> I<(for Win32 Perl)>.

(Obviously, this call does not affect any currently extant threads.)

=item use threads ('stack_size' => VALUE);

This sets the default per-thread stack size at the start of the application.

=item $ENV{'PERL5_ITHREADS_STACK_SIZE'}

The default per-thread stack size may be set at the start of the application
through the use of the environment variable C<PERL5_ITHREADS_STACK_SIZE>:

PERL5_ITHREADS_STACK_SIZE=1048576
export PERL5_ITHREADS_STACK_SIZE
perl -e'use threads; print(threads->get_stack_size(), "\n")'

This value overrides any C<$stack_size> parameter given to C<use threads>. Its
primary purpose is to permit setting the per-thread stack size for legacy
threaded applications.

=item threads->create({'stack_size' => VALUE}, FUNCTION, ARGS)

To specify a particular stack size for any individual thread, call 
C<-E<gt>create()> with a hash reference as the first argument:

my $thr = threads->create({'stack_size' => 32*4096},
  \&foo, @args);

=item $thr2 = $thr1->create(FUNCTION, ARGS)

This creates a new thread (C<$thr2>) that inherits the stack size from an 
existing thread (C<$thr1>).  This is shorthand for the following:

my $stack_size = $thr1->get_stack_size();
my $thr2 = threads->create({'stack_size' => $stack_size},
    FUNCTION, ARGS);

=back

=head1 THREAD SIGNALLING

When safe signals is in effect (the default behavior - see L("Unsafe signals")
for more details), then signals may be sent and acted upon by individual 
threads.

=over 4

=item $thr->kill('SIG...');

Sends the specified signal to the thread.  Signal names and (positive) signal 
numbers are the same as those supported by 
L<kill()>.  For example, 'SIGTERM', 'TERM' and 
(depending on the OS) 15 are all valid arguments to C<-E<gt>kill()>.

Returns the thread object to allow for method chaining:

$thr->kill('SIG...')->join();

=back

Signal handlers need to be set up in the threads for the signals they are 
expected to act upon.  Here's an example for I<cancelling> a thread:

use threads;

sub thr_func
```perl
# Thread 'cancellation' signal handler
$SIG{'KILL'} = sub { threads->exit(); }
...

# Create a thread
my $thr = threads->create('thr_func');
...

# Signal the thread to terminate, and then detach
# it so that it will get cleaned up automatically
$thr->kill('KILL')->detach();

Here's another simplistic example that illustrates the use of thread
signalling in conjunction with a semaphore to provide rudimentary I<suspend>
and I<resume> capabilities:

use threads;
use Thread::Semaphore;

sub thr_func
{
    my $sema = shift;

    # Thread 'suspend/resume' signal handler
    $SIG{'STOP'} = sub {
        $sema->down();      # Thread suspended
        $sema->up();        # Thread resumes
    };
...

    # Create a semaphore and pass it to a thread
    my $sema = Thread::Semaphore->new();
    my $thr = threads->create('thr_func', $sema);

    # Suspend the thread
    $sema->down();
    $thr->kill('STOP');
...

    # Allow the thread to continue
    $sema->up();
```
CAVEAT: The thread signalling capability provided by this module does not actually send signals via the OS. It emulates signals at the Perl-level such that signal handlers are called in the appropriate thread. For example, sending $thr-E<gt>kill('STOP') does not actually suspend a thread (or the whole process), but does cause a SIGNAL('STOP') handler to be called in that thread (as illustrated above).

As such, signals that would normally not be appropriate to use in the kill() command (e.g., kill('KILL', $$)) are okay to use with the -$E<gt>kill() method (again, as illustrated above).

Correspondingly, sending a signal to a thread does not disrupt the operation the thread is currently working on: The signal will be acted upon after the current operation has completed. For instance, if the thread is stuck on an I/O call, sending it a signal will not cause the I/O call to be interrupted such that the signal is acted up immediately.

Sending a signal to a terminated/finished thread is ignored.

=head1 WARNINGS

=over 4

=item Perl exited with active threads:

If the program exits without all threads having either been joined or detached, then this warning will be issued.

NOTE: If the main thread exits, then this warning cannot be suppressed using no warnings 'threads'; as suggested below.

=item Thread creation failed: pthread_create returned #

See the appropriate man page for pthread_create to determine the actual cause for the failure.

=item Thread # terminated abnormally: ...

A thread terminated in some manner other than just returning from its entry point function, or by using threads-$E<gt>exit(). For example, the thread may have terminated because of an error, or by using die.

=item Using minimum thread stack size of #

Some platforms have a minimum thread stack size. Trying to set the stack size below this value will result in the above warning, and the stack size will be set to the minimum.
Thread creation failed: pthread_attr_setstacksize(I<SIZE>) returned 22

The specified I<SIZE> exceeds the system's maximum stack size. Use a smaller value for the stack size.

If needed, thread warnings can be suppressed by using:

no warnings 'threads';

in the appropriate scope.

ERRORS

This Perl not built to support threads

The particular copy of Perl that you're trying to use was not built using the C<useithreads> configuration option.

Having threads support requires all of Perl and all of the XS modules in the Perl installation to be rebuilt; it is not just a question of adding the L<threads> module (i.e., threaded and non-threaded Perls are binary incompatible).

Cannot change stack size of an existing thread

The stack size of currently extant threads cannot be changed, therefore, the following results in the above error:

$thr->set_stack_size($size);

Cannot signal threads without safe signals

Safe signals must be in effect to use the C<-E<gt>kill()> signalling method. See L</"Unsafe signals"> for more details.

Unrecognized signal name: ...

The particular copy of Perl that you're trying to use does not support the specified signal being used in a C<-E<gt>kill()> call.

BUGS AND LIMITATIONS
Before you consider posting a bug report, please consult, and possibly post a message to the discussion forum to see if what you've encountered is a known problem.

=item Thread-safe modules

See L<perlmod/Making your module threadsafe/> when creating modules that may be used in threaded applications, especially if those modules use non-Perl data, or XS code.

=item Using non-thread-safe modules

Unfortunately, you may encounter Perl modules that are not I<thread-safe>. For example, they may crash the Perl interpreter during execution, or may dump core on termination. Depending on the module and the requirements of your application, it may be possible to work around such difficulties.

If the module will only be used inside a thread, you can try loading the module from inside the thread entry point function using C<require> (and C<import> if needed):

```perl
sub thr_func
{
  require Unsafe::Module
  # Unsafe::Module->import(...);

  ....
}
```

If the module is needed inside the I<main> thread, try modifying your application so that the module is loaded (again using C<require> and C<import(>>) after any threads are started, and in such a way that no other threads are started afterwards.

If the above does not work, or is not adequate for your application, then file a bug report on L<http://rt.cpan.org/Public/> against the problematic module.

=item Memory consumption

On most systems, frequent and continual creation and destruction of threads can lead to ever-increasing growth in the memory footprint of the Perl interpreter. While it is simple to just launch threads and then C<join()> or C<detach()> them, for long-lived applications, it is better to maintain a pool of threads, and to reuse them for the work needed, using L<Thread::Queue> to notify threads of pending work. The CPAN
distribution of this module contains a simple example
(F<examples/pool_reuse.pl>) illustrating the creation, use and monitoring of a
pool of I<reusable> threads.

=item Current working directory

On all platforms except MSWin32, the setting for the current working directory
is shared among all threads such that changing it in one thread (e.g., using
C<chdir()> will affect all the threads in the application.

On MSWin32, each thread maintains its own the current working directory
setting.

=item Environment variables

Currently, on all platforms except MSWin32, all I<system> calls (e.g., using
C<system()> or back-ticks) made from threads use the environment variable
settings from the I<main> thread. In other words, changes made to C<%ENV> in
a thread will not be visible in I<system> calls made by that thread.

To work around this, set environment variables as part of the I<system> call.
For example:

    my $msg = 'hello';
    system("FOO=$msg; echo \$FOO");  # Outputs 'hello' to STDOUT

On MSWin32, each thread maintains its own set of environment variables.

=item Catching signals

Signals are I<caught> by the main thread (thread ID = 0) of a script.
Therefore, setting up signal handlers in threads for purposes other than
L</"THREAD SIGNALLING"> as documented above will not accomplish what is
intended.

This is especially true if trying to catch C<SIGALRM> in a thread. To handle
alarms in threads, set up a signal handler in the main thread, and then use
L</"THREAD SIGNALLING"> to relay the signal to the thread:

# Create thread with a task that may time out
my $thr = threads->create(sub {
    threads->yield();
    eval {
        SSIG { ALRM } = sub { die("Timeout\n"); };
        alarm(10);
        ... # Do work here
        alarm(0);
    };
};
if ($@ =~ /Timeout/) {
    warn("Task in thread timed out\n");
}

# Set signal handler to relay SIGALRM to thread
$SIG{ALRM} = sub { $thr->kill('ALRM') };

... # Main thread continues working

=item Parent-child threads

On some platforms, it might not be possible to destroy I<parent> threads while there are still existing I<child> threads.

=item Unsafe signals

Since Perl 5.8.0, signals have been made safer in Perl by postponing their handling until the interpreter is in a I<safe> state. See L<perl58delta/"Safe Signals"> and L<perlipc/"Deferred Signals (Safe Signals)"> for more details.

Safe signals is the default behavior, and the old, immediate, unsafe signalling behavior is only in effect in the following situations:

=over 4

=item * Perl has been built with C<PERL_OLD_SIGNALS> (see C<perl -V>).

=item * The environment variable C<PERL_SIGNALS> is set to C<unsafe> (see L<perlrun/"PERL_SIGNALS">).

=item * The module L<Perl::Unsafe::Signals> is used.

=back

If unsafe signals is in effect, then signal handling is not thread-safe, and the C<-E<gt>kill()> signalling method cannot be used.

=item Identity of objects returned from threads

When a value is returned from a thread through a C<join> operation, the value and everything that it references is copied across to the joining thread, in much the same way that values are copied upon thread creation. This works fine for most kinds of value, including arrays, hashes, and subroutines. The copying recurses through array elements, reference scalars, variables closed over by subroutines, and other kinds of reference.
However, everything referenced by the returned value is a fresh copy in the joining thread, even if a returned object had in the child thread been a copy of something that previously existed in the parent thread. After joining, the parent will therefore have a duplicate of each such object. This sometimes matters, especially if the object gets mutated; this can especially matter for private data to which a returned subroutine provides access.

=item Returning blessed objects from threads

Returning blessed objects from threads does not work. Depending on the classes involved, you may be able to work around this by returning a serialized version of the object (e.g., using L<Data::Dumper> or L<Storable>), and then reconstituting it in the joining thread. If you're using Perl 5.10.0 or later, and if the class supports L<shared objects|threads::shared/>"OBJECTS">, you can pass them via L<shared queues|Thread::Queue>.

=item END blocks in threads

It is possible to add L<END blocks|perlmod/>"BEGIN, UNITCHECK, CHECK, INIT and END"> to threads by using L<require|perlfunc/>"require VERSION"> or L<eval|perlfunc/>"eval EXPR"> with the appropriate code. These C<END> blocks will then be executed when the thread's interpreter is destroyed (i.e., either during a C<-E<gt>join()> call, or at program termination).

However, calling any L<threads> methods in such an C<END> block will most likely I<fail> (e.g., the application may hang, or generate an error) due to mutexes that are needed to control functionality within the L<threads> module.

For this reason, the use of C<END> blocks in threads is B<strongly> discouraged.

=item Open directory handles

In perl 5.14 and higher, on systems other than Windows that do not support the C<fchdir> C function, directory handles (see L<opendir|perlfunc/>"opendir DIRHANDLE,EXPR">) will not be copied to new threads. You can use the C<d_fchdir> variable in L<Config.pm|Config> to determine whether your system supports it.

In prior perl versions, spawning threads with open directory handles would crash the interpreter.

running, then Perl's global destruction phase is not executed because otherwise certain global structures that control the operation of threads and that are allocated in the main thread's memory may get destroyed before the detached thread is destroyed.

If you are using any code that requires the execution of the global destruction phase for clean up (e.g., removing temp files), then do not use detached threads, but rather join all threads before exiting the program.

=item Perl Bugs and the CPAN Version of L<threads>

Support for threads extends beyond the code in this module (i.e., F<threads.pm> and F<threads.xs>), and into the Perl interpreter itself. Older versions of Perl contain bugs that may manifest themselves despite using the latest version of L<threads> from CPAN. There is no workaround for this other than upgrading to the latest version of Perl.

Even with the latest version of Perl, it is known that certain constructs with threads may result in warning messages concerning leaked scalars or unreferenced scalars. However, such warnings are harmless, and may safely be ignored.

You can search for L<threads> related bug reports at L<http://rt.cpan.org/Public/>. If needed submit any new bugs, problems, patches, etc. to: L<http://rt.cpan.org/Public/Dist/Display.html?Name=threads>

=back

=head1 REQUIREMENTS

Perl 5.8.0 or later

=head1 SEE ALSO

threads on MetaCPAN: L<https://metacpan.org/release/threads>


L<threads::shared>, L<perlthrtut>


Perl threads mailing list: L<http://lists.perl.org/list/ithreads.html>
Stack size discussion:
L<http://www.perlmonks.org/?node_id=532956>

Sample code in the I<examples> directory of this distribution on CPAN.

=head1 AUTHOR

Artur Bergman E<lt>sky AT crucially DOT netE<gt>

CPAN version produced by Jerry D. Hedden <jdhedden AT cpan DOT org>

=head1 LICENSE

threads is released under the same license as Perl.

=head1 ACKNOWLEDGEMENTS

Richard Soderberg E<lt>perl AT crystalflame DOT netE<gt> -
Helping me out tons, trying to find reasons for races and other weird bugs!

Simon Cozens E<lt>simon AT brecon DOT co DOT ukE<gt> -
Being there to answer zillions of annoying questions

Rocco Caputo E<lt>troc AT netrus DOT netE<gt>

Vipul Ved Prakash E<lt>mail AT vipul DOT netE<gt> -
Helping with debugging

Dean Arnold E<lt>darnold AT presicient DOT comE<gt> -
Stack size API

=cut

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
  *****************************************************************************/

ppport.h -- Perl/Pollution/Portability Version 3.32

Automatically created by Devel::PPPort running under perl 5.022001.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
includes in parts/inc/ instead.
Use ‘perldoc ppport.h’ to view the documentation below.

```
SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.32

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help
--version show version

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options
--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments
--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files

--strip strip all script and doc functionality from ppport.h

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.20.

=head1 OPTIONS
=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automatically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.
=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C|--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.
Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:
#define NEED_function
#define NEED_variable

For a global function or variable (used in multiple source files), use:

#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
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<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
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<tr>
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<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
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<td>NEED_caller_cx</td>
<td>NEED_caller_cx_GLOBAL</td>
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<tr>
<td>newSVpvn_share()</td>
<td>NEED_newSVpvn_share</td>
<td>NEED_newSVpvn_share_GLOBAL</td>
</tr>
<tr>
<td>pv_display()</td>
<td>NEED_pv_display</td>
<td>NEED_pv_display_GLOBAL</td>
</tr>
<tr>
<td>pv_escape()</td>
<td>NEED_pv_escape</td>
<td>NEED_pv_escape_GLOBAL</td>
</tr>
<tr>
<td>pv_pretty()</td>
<td>NEED_pv_pretty</td>
<td>NEED_pv_pretty_GLOBAL</td>
</tr>
<tr>
<td>sv_2pvflags()</td>
<td>NEED_sv_2pvflags</td>
<td>NEED_sv_2pvflags_GLOBAL</td>
</tr>
<tr>
<td>sv_2pvbyte()</td>
<td>NEED_sv_2pvbyte</td>
<td>NEED_sv_2pvbyte_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg()</td>
<td>NEED_sv_catpvf_mg</td>
<td>NEED_sv_catpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg_nocontext()</td>
<td>NEED_sv_catpvf_mg_nocontext</td>
<td>NEED_sv_catpvf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>sv_pvn_force_flags()</td>
<td>NEED_sv_pvn_force_flags</td>
<td>NEED_sv_pvn_force_flags_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg()</td>
<td>NEED_sv_setpvf_mg</td>
<td>NEED_sv_setpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg_nocontext()</td>
<td>NEED_sv_setpvf_mg_nocontext</td>
<td>NEED_sv_setpvf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>sv_unmagicext()</td>
<td>NEED_sv_unmagicext</td>
<td>NEED_sv_unmagicext_GLOBAL</td>
</tr>
<tr>
<td>vload_module()</td>
<td>NEED_vload_module</td>
<td>NEED_vload_module_GLOBAL</td>
</tr>
<tr>
<td>vnewSVpvf()</td>
<td>NEED_vnewSVpvf</td>
<td>NEED_vnewSVpvf_GLOBAL</td>
</tr>
<tr>
<td>warner()</td>
<td>NEED_warner</td>
<td>NEED_warner_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the `DPPP_NAMESPACE` macro. Just `#define` the macro before including `ppport.h`:

```c
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is `DPPP_`.

=back

The good thing is that most of the above can be checked by running `ppport.h` on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether `ppport.h` is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, `ppport.h` can be run as a Perl script to check your source code. Simply say:

```perl
perl ppport.h
```

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

```perl
perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
```

If you only want your code to be scanned without any suggestions for changes, use:

```perl
perl ppport.h --nochanges
```

You can specify a different `diff` program or options, using the `--diff` option:

```perl
perl ppport.h --diff='diff -C 10'
```

This would output context diffs with 10 lines of context.
If you want to create patched copies of your files instead, use:

    perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function, use:

    perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

    perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

    perl ppport.h --api-info=/./

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report here: L<https://github.com/mhx/Devel-PPPort/issues/>

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.
A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2013, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval \'$\{^RE_TRIE_MAXBUF\} = -1\' if \$] >= 5.009004 && \$] <= 5.009005 };

my $VERSION = 3.32;

my %opt = (
    quiet  => 0,
    diag   => 1,
    hints  => 1,
    changes => 1,
    cplusplus => 0,
    filter  => 1,
    strip   => 0,
    version => 0,
);

my($ppport) = $0 =~ /\[\w.]+$/;
my $LF = '(?:\n[\n\r])';  # line feed
my $HS = "[ \t]";  # horizontal whitespace

# Never use C comments in this file!
my $ccs  = '/\*\*';
my $cce  = '\*[/\*';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
  require Getopt::Long;
  Getopt::Long::GetOptions(%opt, qw(
    help quiet diag! filter! hints! changes! cplusplus strip version
    patch=s copy=s diff=s compat-version=s
    list-provided list-unsupported api-info=s
  )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
  usage() if "ARGV" =~ /--?h(?:elp)?$/;
  die "Getopt::Long not found. Please don’t use any options.
";
}

if ($opt{version}) {
  print "This is $0 $VERSION
";
  exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
  my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
  if ($@) {
    die "Invalid version number format: $opt{'compat-version'}
";
  }
  die "Only Perl 5 is supported
" if $r != 5;
  die "Invalid version number: $opt{'compat-version'}" if $v >= 1000 || $s >= 1000;
  $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
} else {
  $opt{'compat-version'} = 5;
}

my %API = map { /^(\w+)|([^|]*)|([^|]*)|([^\s]*)$/}
  ? ($1 => { ($2 ? ( base => $2 ); () ),
             ($3 ? ( todo => $3 ); () ) ),
             ($4 ? ( api => $4 ); () )
  }
SvPV_force_flags_nolen|5.009003||p
SvPV_force_flags[5.007002]|p
SvPV_force_mutable|5.009003||p
SvPV_force_nolen|5.009003||p
SvPV_force_nomg_nolen|5.009003||p
SvPV_force_nomg|5.007002||p
SvPV_force||p
SvPV_mutable[5.009003]|p
SvPV_nolen_const[5.009003]|p
SvPV_nolen[5.006000]|p
SvPV_nomg_const_nolen[5.009003]|p
SvPV_nomg_const[5.009003]|p
SvPV_nomg_nolen|5.013007||p
SvPV_nomg[5.007002]|p
SvPV_renew[5.009003]|p
SvPV_set||
SvPVbyte_force[5.009002]|
SvPVbyte_nolen[5.006000]
SvPVbyte_force[5.006000]
SvPVbyte[5.006000]
SvPVbyte[5.006000]p
SvPVutf8_force[5.006000]
SvPVutf8_nolen[5.006000]
SvPVutf8x_force[5.006000]
SvPVutf8x[5.006000]
SvPVutf8[5.006000]
SvPVx||
SvPV||
SvREFCNT_dec_NN[5.017007]
SvREFCNT_dec||
SvREFCNT_inc_NN[5.009004]|p
SvREFCNT_inc_simple_NN[5.009004]|p
SvREFCNT_inc_simple_void_NN[5.009004]|p
SvREFCNT_inc_simple_void[5.009004]|p
SvREFCNT_inc_simple[5.009004]|p
SvREFCNT_inc_void_NN[5.009004]|p
SvREFCNT_inc_void[5.009004]|p
SvREFCNT_inc||p
SvREFCNT||
SvROK_off||
SvROK_on||
SvROK||
SvRV_set[5.009003]|p
SvRV||
SvRXOK[5.009005]
SvRX[5.009005]
SvSETMAGIC||
SvSHARED_HASH[5.009003]|p
compute_EXACTish
construct_ahocorasick_from_trie
kop_fetch_label
kop_free
kop_hints_2hv
kop_hints_fetch_pvn
kop_hints_fetch_pvs
kop_hints_fetch_pv
kop_hints_fetch_sv
kop_store_label
kopph_2hv
kopph_copy
kopph_delete_pvn
kopph_delete_pvs
kopph_delete_pv
kopph_delete_sv
kopph_fetch_pvn
kopph_fetch_pvs
kopph_fetch_pv
kopph_fetch_sv
kopph_free
kopph_new_empty
kopph_store_pvn
kopph_store_pvs
kopph_store_pv
kopph_store_sv
core_prototype
coresub_op
could_it_be_a_POSIX_class
create_eval_scope
croak_memory_wrap
croak_no_mem
croak_no_modify
croak_nocontext
croak_popstack
croak_sv
croak_xs_usage
croak
csighandler
current_re_engine
curse
custom_op_desc
custom_op_get_field
custom_op_name
custom_op_register
custom_op_xop
cv_ckproto_len_flags
cv_clone_into
cv_clone
cv_const_sv_or_av
cv_const_sv
cv_dump


cv_forget_slab

cv_get_call_checker

cv_name

cv_set_call_checker_flags

cv_set_call_checker

cv_undef_flags

cv_undef

cvgv_from_hek

cvgv_set

cvstash_set

cx_dump

cx_dup

cxinc

dAXMARK

dAX

dITEMS

dMARK

dMULTICALL

dMY_CXT_SV

dMY_CXT

dNOOP

dORIGMARK

dSP

dTHR

dTHXR

dTHXa

dTHXoa

dTHX

dUNDERBAR

dVAR

dXCPT

dXSARGS

dXI32

dXSTARG

deb_curcv

deb_nocontext

deb_stack_all

deb_stack_n

debop

debprofdump

debprof

debstackptrs

debstack
do_seek||
do_semop||
do_shmio||
do_smartmatch||
do_spawn_nowait||
do_spawn||
do_sprintf||
do_sv_dump|5.006000|
do_sysseek||
do_tell||
do_trans_complex_utf8||
do_trans_complex||
do_trans_count_utf8||
do_trans_count||
do_trans_simpleUtf8||
do_trans_simple||
do_trans||
do_vecget||
do_vecset||
do_vop||
docatch||
doeval||
dofile||
dofindlabel||
doform||
doinlinet|5.008001|n
doopen_pm||
doparseform||
dopoptoeval||
dopoptogiven||
dopoptolabel||
dopoptoloop||
dopoptosub_at||
dopoptowhen||
doref|5.009003|
dounwind||
dowantarray||
drand48_init_r||n
drand48_r||n
dump_all_perl||
dump_all|5.006000|
dump_c_backtrace||
dump_eval|5.006000|
dump_exec_pos||
dump_form|5.006000|
dump_indent|5.006000|v
dump_mstats||
dump_packsubs_perl
dump_packsubs[5.006000]
dump_sub_perl

dump_sub[5.006000]
dump_sv_child

dump_trie_interim_list

dump_trie_interim_table

dump_trie

dump_vindent[5.006000]
dumpuntil

dup_attrlist

evaluate_cop_io

eval_pv[5.006000]
eval_sv[5.006000]
exec_failed

expect_number

fbm_compile[5.005000]

fbm_instr[5.005000]
feature_is_enabled

filter_add

filter_del

filter_gets

filter_read

finalize_optree

finalize_op

find_and_forget_pmops

find_array_subscript

find_beginning

find_byclass

find_default_stash

find_hash_subscript

find_in_my_stash

find_lexical_cv

find_runcv_where

find_runcv[5.008001]
find_rundefsv2

find_rundefsvoffset[5.009002]
find_rundefsv[5.013002]
find_script

find_uninit_var

first_symbol

fixup_errno_string

foldEQ_latin1[5.013008]
foldEQ_locale[5.013002]
foldEQ_utf8_flags[5.013010]
foldEQ_utf8[5.013002]
foldEQ[5.013002]
fold_constants

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hv_ename_add
hv_ename_delete
hv_exists_ent
hv_exists
hv_fetch_ent
hv_fetchs
hv_fetch
hv_fill
hv_free_ent_ret
hv_free_ent
hv_iterinit
hv_iterkeys
hv_iterkeys
hv_iterkey
hv_iternext
hv_iternextsv
hv_iternext
hv_iterval
hv.kill_backrefs
hv_ksplit
hv_magic_check
hv_magic
hv.name_set
hv_notallowed
hvplaceholders_get
hvplaceholders_p
hvplaceholders_set
hv.rand_set
hv.riter_p
hv.riter_set
hv.scalar
hv_store_ent
hv_store_flags
hv_store
hv.undef_flags
hv.undef
ibcmp.locale
ibcmp_utf8
ibcmp
incline
incpush_if_exists
incpush_use_sep
incpush
ingroup
init_argv_symbols
init_constants
init_dbargs
init_debugger
init_global_struct
init_i18n10n||5.006000|
init_i18n14n||5.006000|
init_ids||
init_interp||
init_main_stash||
init_perlib||
init_postdump_symbols||
init_predump_symbols||
init_stacks||5.005000|
init_tm||5.007002|
inplace_aassign||
instr||
intro_my||5.004000|
intuit_method||
intuit_more||
invert||
invlist_array||n
invlist_clone||
invlist_extend||
invlist_highest||n
invlist_is_iterating||n
invlist_iterfinish||n
invlist_iterinit||n
invlist_iternext||n
invlist_max||n
invlist_previous_index||n
invlist_set_len||
invlist_set_previous_index||n
invlist_trim||n
invoke_exception_hook||
io_close||
isALNUMC||5.006000||p
isALNUM_lazy||5.021001|
isALPHANUMERIC||5.017008|
isALPHA||
isASCII||5.006000||p
isBLANK||5.006001||p
isCNTRL||5.006000||p
isDIGIT||
isFOO_lc||
isFOO_utf8_lc||
isGCB||n
isGRAPH||5.006000||p
isGV_with_GP||5.009004||p
isIDCONT||5.017008|
isIDFIRST_lazy||5.021001|
isIDFIRST||
mem_collxfrm
mem_log_common
mess_alloc
mess_nocustom
mess_sv[5.013001]
mess[5.006000]
mfree[5.007002]
mg_clear
mg_copy
mg_dup
mg_find_mglob
mg_findext[5.013008]
mg_find
mg_free_type[5.013006]
mg_free
mg_get
mg_length[5.005000]
mg_localize
mg_magical
mg_set
mg_size[5.005000]
mini_mktime[5.007002]
minus_v
missingterm
mode_from_discipline
modkids
more_bodies
more_sv
moreswitches
move_proto_attr
mro_clean_isarev
mro_gather_and_rename
mro_get_from_name[5.010001]
mro_get_linear_isa_dfs
mro_get_linear_isa[5.009005]
mro_get_private_data[5.010001]
mro_isa_changed_in
mro_meta_dup
mro_meta_init
mro_method_changed_in[5.009005]
mro_package_moved
mro_register[5.010001]
mro_set_mro[5.010001]
mro_set_private_data[5.010001]
mul128
mulexp10
multideref_stringify
my_atof2[5.007002]
my_atof
my_attrs
my_bcopy
my_bytes_to_utf8
my_bzero
my_chsize
my_clearenv
my_ctx_index
my_ctx_init
my_dirfd
my_exit_jump
my_exit
my_failure_exit
my_fflush_all
my_fork
my_kid
my_lstat_flags
my_lstat
my_memcmp
my_memset
my_pclose
my_popen_list
my_popen
my_setenv
my_setlocale
my_snprintf
my_socketpair
my_sprintf
my_stat_flags
my_stat
my_strerror
my_strftime
my_strlcat
my_strlcpy
my_unexec
my_vsnprintf
need_utf8
newANONATTRSUB
newANONHASH
newANONLIST
newANONSUB
newASSIGNOP
newATTRSUB
newATTRSUB_x
newATTRSUB
newAVREF
newAV
newBINOP
newCONDOP
newCONSTSUB_flags||5.015006|
newCONSTSUB[5.004050]p
newCVREF||
newDEFSVOP[5.021006]
newFORM||
newFOROP[5.013007]
newGIVENOP[5.009003]
newGIVWHENOP||
newGP||
newGVOP||
newGVREF||
newGVgen_flags||5.015004|
newGVgen||
newHVREF||
newHVhv[5.005000]
newHV||
newIO||
newLISTOP||
newLOGOP||
newLOOPEX||
newLOOPOP||
newMETHOP_internal||
newMETHOP_named[5.021005]
newMETHOP[5.021005]
newMYSUB[5.017004]
newNULLLIST||
newOP||
newPADNAMELIST||5.021007n
newPADNAMEouter||5.021007n
newPADNAMEpvn||5.021007n
newPADOP||
newPMOP||
newPROG||
newPVOP||
newRANGE||
newRV_inc[5.004000]p
newRV_noinc[5.004000]p
newRV||
newSLICEOP||
newSTATEOP||
newSTUB||
newSUB||
newSVOP||
newSVREF||
newSV_type[5.009005]p
newSVavdelem||
newSVhek[5.009003]
newSViv||
seed||5.008001|
sequence_num||
set_ANYOF_arg||
set_caret_X||
set_context||5.006000|
set_numeric_local||5.006000|
set_numeric_radix||5.006000|
set_numeric_standard||5.006000|
set_padlist||n
setdefout||
share_hek_flags||
share_hek||5.004000|
should_warn_nl||n
si_dup||
sighandler||n
simplify_sort||
skipspace_flags||
softref2xv||
sortcv_stacked||
sortcv_xsub||
sortcv||
sortsv_flags||5.009003|
sortsv||5.007003|
space_join_names_mortal||
ss_dup||
ssc_add_range||
ssc_and||
ssc_anything||
ssc_clear_locale||n
ssc_cp_and||
ssc_finalize||
ssc_init||
ssc_intersection||
ssc_is_anything||n
ssc_is_cp_posixl_init||n
ssc_or||
ssc_union||
stack_grow||
start_glob||
start_subparse||5.004000|
stdize_locale||
strEQ||
strGE||
strGT||
strLE||
strLT||
strNE||
str_to_version||5.006000|
sv_catpvs_nomg[5.013006]
sv_catpvs[5.009003]p
sv_catpv||
sv_catsv_flags[5.007002]
sv_catsv_mg[5.004050]p
sv_catsv_nomg[5.007002]p
sv_catsv||
sv_chop||
sv_clean_all||
sv_clean_objs||
sv_clear||
sv_cmp_flags[5.013006]
sv_cmp_locale_flags[5.013006]
sv_cmp_locale[5.004000]
sv_cmp||
sv_collxfrm_flags[5.013006]
sv_collxfrm||
sv_copyppv_flags[5.017002]
sv_copyppv_nomg[5.017002]
sv_copyppv||
sv_dec_nomg[5.013002]
sv_dec||
sv_del_backref||
sv_derived_from_pvn[5.015004]
sv_derived_from_pv[5.015004]
sv_derived_from_sv[5.015004]
sv_derived_from[5.004000]
sv_destroyable[5.010000]
sv_display||
sv_does_pvn[5.015004]
sv_does_pv[5.015004]
sv_does_sv[5.015004]
sv_does[5.009004]
sv_dump||
sv_dup_common||
sv_dup_inc_multiple||
sv_dup_inc||
sv_dup||
sv_eq_flags[5.013006]
sv_eq||
sv_exp_grow||
sv_force_normal_flags[5.007001]
sv_force_normal[5.006000]
sv_free2||
sv_free_arenas||
sv_free||
sv_get_backrefs[5.021008]n
sv_gets[5.003070]
write_to_stderr|||
xs_boot_epilog|||
xs_handshake|||vn
xs_version_bootcheck|||
yyerror_pvn|||
yyerror_pv|||
yyerror|||
yylex|||
yyparse|||
yyunlex|||
yywarn|||
);
if (exists $opt{'list-unsupported'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{todo};
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }

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$hint = [S1, [split /,?s+/, S2]]
    if m{^s*$rccs$+(Hint[Warning]):s+(w+?(?:s+\w+))*s*$};

if ($define) {
    if ($define->[1] =~ /\$/) {
        $define->[1] .= $_;
    } else {
        if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\)/) {
            my @n = find_api($define->[1]);
            push @($depends{$define->[0]}), @n if @n
        }
        undef $define;
    }
}
$define = [S1, S2] if m{^s*$s*$define\s+(w+)?(\^[\w]+)\w+.*};

if ($function) {
    if (/^\)/) {
        if (exists $API{$function->[0]})) {
            my @n = find_api($function->[1]);
            push @($depends{$function->[0]}), @n if @n
        }
        undef $function;
    } else {
        $function->[1] .= $_;
    }
}
$function = [S1, "] if m{^DPPP_\(my_(\w+)\)};

$replace     = $1 if m{^s*$rccs\s+Replace\s+(w+)?s+\w+\s*$};
$replace{S2} = $1 if $replace and m{^s*$s*$define\s+(w+)?(\^[\w]+)\w+\w+\s*$};
$replace{S2} = $1 if m{^s*$s*$define\s+(w+)?(\^[\w]+)\w+\w+\s*$rccs\s+Replace\s+\w+\s*$};
$replace{S1} = $2 if m{^s*$s*$define\s+Replace\s+(w+)?s+\w+\w+\s*$};

if (m{^s*$rccs\s+(w+)(\w+\w+)*s+\w+\w+\w+\s*$}) {
    my @deps = map { s/s\s+//g; $ } split /,/; $3;
    my $d;
    for $d (map { s/s\s+//g; $ } split /,/; $1) {
        push @($depends{$d}), @deps;
    }
}
$need{S1} = 1 if m{^\#if\s+defined\((NEED_(\w+)(?:_GLOBAL)?)\)$};
}

for (values %depends) {
    my %s;
    $_ = [sort grep !$s{$_}++, @$_];
}

if (exists $opt{'api-info'}) {
    my $f;
    my $count = 0;
    my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "$\Q$opt{'api-info'}\E\$";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print "\n=== $f ===\n\n";
        my $info = 0;
        if ($API{$f}{base} || $API{$f}{todo}) {
            my $base = format_version($API{$f}{base} || $API{$f}{todo}) ; "5.0.03";
            print "Supported at least starting from perl-$base\n";
            $info++;
        } else {
            my $todo = $API{$f}{provided} ? format_version($API{$f}{todo}) : "5.0.03";
            print "Support by $ppport provided back to perl-$todo\n";
            print "Support needs to be explicitly requested by NEED_$f\n" if exists $need{$f};
            print "Depends on: \n", join(\n',\n', @{$depend{$f}} ); "\n" if exists $depends{$f};
            print "\n\n$hints{$f}" if exists $hints{$f};
            print "\n\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
        }
        print "\n\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
        print "\n\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
        print "\n\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
        $info++;
    }
    print "\n\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
    exit 0;
}

if (exists $opt{'list-provided'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{provided};
        my @flags;
        push @flags, 'explicit' if exists $need{$f};
        push @flags, 'depend'   if exists $depends{$f};
        push @flags, 'hint'     if exists $hints{$f};
        push @flags, 'warning'  if exists $warnings{$f};
        my $flags = @flags ? '['.join(', ', @flags).']' : "
    }
    print "\n\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
    exit 0;
}
print "$f$flags\n";
}
exit 0;
}
my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;
if (@ARGV) {
my %seen;
for (@ARGV) {
if (-e) {
if (-f) {
push @files, $_ unless $seen{$_}++;
}
else { warn "'$_' is not a file.\n" }
}
else {
my @new = grep { -f } glob $_
or warn "'$_' does not exist.\n";
push @files, grep { !$seen{$_}++ } @new;
}
}
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}

Open Source Used In Intersight Kubernetes Service 1.0.15 20507


@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;
my $func;
for $func (keys %API) {
my $match = $func;
$match .= "|$revreplace{$func}" if exists $revreplace{$func};
if ($c =~ /\b(?:Perl_)?($match)\b/) {
$file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
$file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;

Open Source Used In Intersight Kubernetes Service 1.0.15 20508


if (exists $API{$func}{provided}) {
$file{uses_provided}{$func}++;
if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
$file{uses}{$func}++;
my @deps = rec_depend($func);
if (@deps) {
$file{uses_deps}{$func} = \@deps;
for (@deps) {
$file{uses}{$_} = 0 unless exists $file{uses}{$_};
}
}
for ($func, @deps) {
$file{needs}{$_} = 'static' if exists $need{$_};
}
}
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
if ($c =~ /\b$func\b/) {
$file{uses_todo}{$func}++;
}
}
}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;

Open Source Used In Intersight Kubernetes Service 1.0.15 20509


@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{($global{needs}{$need})}) {
    $files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}

for $filename (@files) {
    exists $files{$filename} or next;

    info("=== Analyzing $filename ===");

    my %file = %{$files{$filename}};
    my $func;
    my $c = $file{code};
    my $warnings = 0;

    for $func (sort keys %{file{uses_Perl}}) {
        if ($API{$func}{varargs}) {
            unless ($API{$func}{nothxarg}) {
                my $changes = ($c =~ s{\b(Perl_$func\$s*\s*\(?[^\s]*\)?(?!aTHX_\?)(?!!s)*\$s)*\b}{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ' . $2 }ge);
            if ($changes) {
                warning("Doesn't pass interpreter argument aTHX to Perl_$func");
                $file{changes} += $changes;
            }
        }
    }
    else {
        warning("Uses Perl_$func instead of $func");
        $file{changes} += ($c =~ s{\bPerl_$func\$s*\s*\(?[^\s]*\)?(?!aTHX_\?)(?!!s)*\$s\b}{ $func$1\$2 }g);
    }
}

for $func (sort keys %{file{uses_replace}}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s/$func/$replace{$func}/g);
}

for $func (sort keys %{file{uses_provided}}) {
    if ($file{uses}{$func}) {
        if (exists $file{uses_deps}{$func}) {
            diag("Uses $func, which depends on ", join(',', @{$file{uses_deps}{$func}}));
        } else {
            warning("Uses $func, which depends on ", join(',', @{$file{uses_deps}{$func}}));
        }
    }
    else {

diag("Uses $func");
}

$warnings += hint($func);
}

unless ($opt{quiet}) {
  for $func (sort keys %{$file{uses_todo}})) {
    print "*** WARNING: Uses $func, which may not be portable below perl ",
       format_version($API{$func}{todo}), ", even with '$ppport'un";
    $warnings++;
  }
}

for $func (sort keys %{$file{needed_static}})) {
  my $message = ";
  if (not exists $file{uses}{$func}) {
    $message = "No need to define NEED_$func if $func is never used";
  }
  elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
    $message = "No need to define NEED_$func when already needed globally";
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
  }
}

for $func (sort keys %{$file{needed_global}})) {
  my $message = ";
  if (not exists $global{uses}{$func}) {
    $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
  }
  elsif (exists $file{needs}{$func}) {
    if ($file{needs}{$func} eq 'extern') {
      $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
    }
    elsif ($file{needs}{$func} eq 'static') {
      $message = "No need to define NEED_$func when only used in this file";
    }
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
  }
}

$file{needs_inc_ppport} = keys %{$file{uses}};
if ($file{needs_inc_ppport}) {
  my $pp = ";

  for $func (sort keys %{$file{needs}}) {
    my $type = $file{needs}[$func];
    next if $type eq 'extern';
    my $suffix = $type eq 'global' ? '_GLOBAL' : ''; 
    unless (exists $file{"needed_$type"}[$func]) {
      if ($type eq 'global') {
        diag("Files [@{ $global{needs}[$func] }] need $func, adding global request");
      } else {
        diag("File needs $func, adding static request");
      }
      $pp .= "#define NEED_$func$suffix\n";
    }
  }

  if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
    $pp = "";
    $file{changes}++;
  }

  unless ($file{has_inc_ppport}) {
    diag("Needs to include '$ppport'");
    $pp .= qq(#include "$ppport\n")
  }

  if ($pp) {
    $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*)(?<$/1$pp/ms)
      || ($c =~ s/^($HS*#$HS*include.*\Q$ppport\E.*/$pp/m)
      || ($c =~ s/^($HS*#$HS*include.*XSUB.*\s*?)^/$1$pp/m)
      || ($c =~ s/^/$pp/);
  }
}
else {
  if ($file{has_inc_ppport}) {
    diag("No need to include '$ppport'");
    $file{changes} += ($c =~ s/^{$HS*?$HS*include.\^\Q$ppport\E.*?SLF//m);
  }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
if (!$opt{cplusplus} && $ccomp[$ix] =~ s!^//!!) {
    $cppc++;
    $file{changes} += $c =~ s/$rccs$ix$rcces/$ccs$ccomp[$ix] $cce/;
} else {
    $c =~ s/$rccs$ix$rcces/$ccomp[$ix]/;
}
}

if ($cppc) {
    my $s = $cppc != 1 ? 's' : '';
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : ''; my $warn = $warnings ? " ($warnings warning$s)" : ''; info("Analysis completed$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("'$newfile' already exists, refusing to write copy of '$filename'");
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'");
                print F $c;
                close F;
            } else {
                error("Cannot open '$newfile' for writing: $!");
            }
        }
    } elsif (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
            unless ($patch_opened) {
                if (open PATCH, ">$opt{patch}") {
                    $patch_opened = 1;
                } else {
                    error("Cannot open '$opt{patch}' for writing: $!");
                    delete $opt{patch};
                    $opt{changes} = 1;
                    goto fallback;
                }
            } else {
                error("Cannot open '$opt{patch}' for writing: $!");
                delete $opt{patch};
                $opt{changes} = 1;
                goto fallback;
            }
        }
    }
}

else if (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
        unless ($patch_opened) {
            if (open PATCH, ">$opt{patch}") {
                $patch_opened = 1;
            } else {
                error("Cannot open '$opt{patch}' for writing: $!");
                delete $opt{patch};
                $opt{changes} = 1;
                goto fallback;
            }
        } else {
            error("Cannot open '$opt{patch}' for writing: $!");
            delete $opt{patch};
            $opt{changes} = 1;
            goto fallback;
        }
    }
}
mydiff("^PATCH", $filename, $c);
else {
fallback:
    info("Suggested changes:");
    mydiff("^STDOUT", $filename, $c);
} else {
    my $s = $file{changes} == 1 ? '' : 's';
    info("$file{changes} potentially required change$s detected");
}
} else {
    info("Looks good");
}

close PATCH if $patch_opened;
exit 0;

sub try_use { eval "use @_;": return $@ eq "" }

sub mydiff
{
    local *F = shift;
    my($file, $str) = @_; 
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    } else {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff;
--- $file
+++ $file.patched
HEA
if (!defined $diff)
    $diff = run_diff('diff -u', $file, $str);
}
if (!defined $diff) {
    $diff = run_diff('diff', $file, $str);
}

if (!defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
    return;
}

print F $diff;
}

sub run_diff
{
    my($prog, $file, $str) = @_;  
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = ";
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf"

    if (open F, ">$tmp") {
        print F $str;
        close F;

        if (open F, "$prog $file $tmp |") {
            while (<F>) {
                s/\Q$tmp\E/$file.patched/;
                $diff .= $_;
            }
            close F;
            unlink $tmp;
            return $diff;
        }
        unlink $tmp;
    } else {
        error("Cannot open '$tmp' for writing: $!");
    }

    return undef;
}

sub rec_depend
{
my($func, $seen) = @_; 
return () unless exists $depends{$func}; 
$seen = {%{$seen||{}}}; 
return () if $seen->{$func}++; 
my %s; 
grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @$depends{$func}; 
}

sub parse_version
{
my $ver = shift;

if ($ver =~ /\d+./) { 
  return ($1, $2, $3);
}
elsif ($ver !~ /^(\d+\d+\d+)/) { 
  die "cannot parse version '$ver\n";
}

$ver =~ s/_//g;
$ver =~ s/\d\d\d/000000/;
my($r,$v,$s) = $ver =~ /\d+\d{3}\d{3}/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) { 
  if ($s % 10) {
    die "cannot parse version '$ver\n";
  }
}

return ($r, $v, $s);
}

sub format_version
{
my $ver = shift;

$ver =~ s/\d{3}000000/;
my($r,$v,$s) = $ver =~ /\d+\d{3}\d{3}/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) { 
  if ($s % 10) {
    die "cannot parse version '$ver\n";
  }
}

return ($r, $v, $s);
}


die "invalid version '$ver\n";
}
$s /= 10;

$ver = sprintf "%d.%03d", $r, $v;
$s > 0 and $ver .= sprintf "_%02d", $s;

return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;

sub info
{
$opt{quiet} and return;
print @_, "\n";
}

sub diag
{
$opt{quiet} and return;
$opt{diag} and print @_, "\n";
}

sub warning
{
$opt{quiet} and return;
print "*** \", @_, "\n";
}

sub error
{
print "*** ERROR: \", @_, "\n";
}

my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
    my $warn = $warnings{$func};
    $warn =~ s!^!*** !mg;
    print "*** WARNING: $func\n", $warn;
    $rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
    my $hint = $hints{$func};
    $hint =~ s/^/   /mg;
    print "   --- hint for $func ---\n", $hint;
}

sub usage {
    my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d\s+SYNOPSIS\s*^(.*?)\s*=*=/ms;
    my $M = ( 'I' => '*' );
    $usage =~ s/\^\S+perl\S+/\$X X \$0/;
    $usage =~ s/^\S*\[^>-]/S\$1S\$1/g;

    print <<<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE

exit 2;
}

sub strip {
    my $self = do { local(@ARGV,$/)=($0); <> };
    my($copy) = $self =~ /^=head\d\S+COPYRIGHT\s*^(.*?)\S+=*=/ms;
    $copy =~ s/^(?=\S+)/    /gms;
    $self =~ s/^\S+Do NOT edit\S+/\$copy/ms;
    $self =~ s/^\S+\S+$/\$1$1/;

    if (@ARGV && $ARGV[0] eq '--unstrip') {
        eval { require Devel::PPPort }; \
    } and die "Cannot require Devel::PPPort, please install.\n";
    if (eval \$Devel::PPPort::VERSION < \$VERSION) {
        die "$0 was originally generated with Devel::PPPort \$VERSION.\n" . "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\n" . "Please install a newer version, or --unstrip will not work.\n";
    }
    Devel::PPPort::WriteFile($0);
    exit 0;
}

print <<<END;
Sorry, but this is a stripped version of \$0.
To be able to use its original script and doc functionality, please try to regenerate this file using:

\$^X \$0 --unstrip

END

/my($pl, $c) = $self =~ /(*\^__DATA__\*)*/ms;
$c =~ s{ / (?:\^[^*]*[^+]?[^ccs]\^[^*]*[^+]+) / | /[^\r\n]+ )
   | ('[^\"]*)(?:[^\\]*[^\"]*[^\\]*)
   | ([\^[^\"]*]+) )
   | ($HS+) }{ defined $2 ? '' : ($1 || '') }gsex;
$c =~ s!\s+$!!mg;
$c =~ s!^\r\n!!mg;
$c =~ s!^\s*#\s*!#!mg;
$c =~ s!^\s+!!mg;
open OUT, ">$0" or die "cannot strip $0: $!

exit 0;

__DATA__

*/

Found in path(s):

No license file was found, but licenses were detected in source scan.

Copyright 2006 - 2009 Jerry D. Hedden. All rights reserved.
This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Found in path(s):


No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1185063449_1627672040.77/0/perl-threads-2.21-2.el8-1.src.rpm-cosi-expand-archive-
XhAqbh6X/perl-threads.spec
No license file was found, but licenses were detected in source scan.

abstract: 'Perl interpreter-based threads'
author:
  - 'Artur Bergman, Jerry D. Hedden <jdhedden AT cpan DOT org>'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: threads
no_index:
directory:
  - t
  - inc
requires:
  Carp: '0'
  Config: '0'
  ExtUtils::testlib: '0'
  Hash::Util: '0'
  IO::File: '0'
  Test::More: '0'
  XSLoader: '0'
  overload: '0'
  strict: '0'
  warnings: '0'
version: '2.21'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /opt/cola/permits/1185063449_1627672040.77/0/perl-threads-2.21-2.el8-1.src.rpm-cosi-expand-archive-
XhAqbh6X/threads-2.21.tar.gz-cosi-expand-archive-RQMMME1E/threads-2.21/META.yml

1.1735 gopkg.in/ini.v1 1.57.0

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1.1737 httpsnoop 1.0.1

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1.1738 value-or-promise 1.0.11

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1.1739 krb5-libs 1.18.4-r0

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cmd/krb5/slave/kpropd_rpc.c
```
```
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mach/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mach/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
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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
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
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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

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1.1741 stretchr-testify 1.7.0

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1.1742 uuid 8.3.2

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1.1743 structured-merge-diff 4.1.2

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dos/config.h was generated with autoheader, which tells Autoconf to output a script to generate a config.h file and then runs it.

Files: po/Makevars
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1.1752 ncurses-libs 6.2_p20210612-r0
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Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.10 2021/01/01 09:54:30 tom Exp $
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1.1753 libnetfilter-conntrack 1.0.7 1

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1.1754 pigz 2.4-4.el8

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cmd/krb5/kadmin/server/ipropd_svc.c
```
```
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
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lib/krb5/kdb/kdb_log.c
```
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lib/krb5/kdb/kdb_log.h
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lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_unseal.c
lib/libgss/gsd_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
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
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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

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1.1759 python-dbus 1.2.6 1

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1.1762 caseless 0.12.0

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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>
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DES core in libhcrypto

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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 Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.


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lib/hcrypto/test_dh.c

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.1770 ci-info 2.0.0

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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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<td>2.1.1</td>
<td>2001</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.1.2</td>
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<td>2.1.3</td>
<td>2.1.2</td>
<td>2002</td>
<td>PSF</td>
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<tr>
<td>2.2 and above</td>
<td>2.1.1</td>
<td>2001-now</td>
<td>PSF</td>
<td>yes</td>
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Mersenne Twister
--------------
The `_random` module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html`. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)` or `init_by_array(init_key, key_length)`.

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
-------
The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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

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1.1776 perks 1.0.0

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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/moduls/pam_motd/pam_motd.c
===================================================================
--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
  close(fd);
 }

+int display_legal(pam_handle_t *pamh)
+{
+  int retval = PAM_IGNORE, rc;
+  char *user = NULL;
+  char *dir = NULL;
+  char *flag = NULL;
+  struct passwd *pwd = NULL;
+  struct stat s;
+  int f;
+  /* Get the user name to determine if we need to print the disclaimer */
+ rc = pam_get_item(pamh, PAM_USER, &user);
+ if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+ {
+   PAM_MODUTIL_DEF_PRIVS(privs);
+   /* Get the password entry */
+   pwd = pam_modutil_getpwnam (pamh, user);
+   if (pwd != NULL)
+   {
+     if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+       pam_syslog(pamh, LOG_ERR,
+                   "Unable to change UID to %d temporarily\n",
+                   pwd->pw_uid);
+       retval = PAM_SESSION_ERR;
+       goto finished;
+     }
+
+     if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+       goto finished;
+     if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+       goto finished;
+
+     if (stat(flag, &s) != 0)
+     {
+       display_file(pamh, "/etc/legal");
+       mkdir(dir, 0700);
+       f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+                S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+       if (f>=0) close(f);
+     }
+   }
+ finished:
+   if (pam_modutil_regain_priv(pamh, &privs)) {
+     pam_syslog(pamh, LOG_ERR,
+                "Unable to change UID back to %d\n", privs.old_uid);
+     retval = PAM_SESSION_ERR;
+   }
+
+   _pam_drop(flag);
+   _pam_drop(dir);
+ }
+ return retval;
+
+ PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
int argc, const char **argv)
/* Display the updated motd */
    display_file(pamh, motd_path);

+    /* Display the legal disclaimer only if necessary */
+    retval = display_legal(pamh);
+    
    return retval;
}

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on

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1.1790 perl-pathtools 3.74-1.el8

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/*

----------------------------------------------------------------------
ppport.h -- Perl/Pollution/Portability Version 3.39

Automatically created by Devel::PPPort running under perl 5.027009.

Do NOT edit this file directly! -- Edit PPPort.pm.PL and the
includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

----------------------------------------------------------------------

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.39

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help          show short help

--version       show version

--patch=file    write one patch file with changes
--copy=suffix   write changed copies with suffix
--diff=program use diff program and options
=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.20.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either
C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip
Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

    perl ppport.h --list-provided

To see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using
global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define> s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

```c
#define NEED_function
#define NEED_variable
```

For a global function or variable (used in multiple source files), use:

```c
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>SvRX()</td>
<td>NEED_SvRX</td>
<td>NEED_SvRX_GLOBAL</td>
</tr>
<tr>
<td>caller_cx()</td>
<td>NEED_caller_cx</td>
<td>NEED_caller_cx_GLOBAL</td>
</tr>
<tr>
<td>croak_xs_usage()</td>
<td>NEED_croak_xs_usage</td>
<td>NEED_croak_xs_usage_GLOBAL</td>
</tr>
<tr>
<td>die_sv()</td>
<td>NEED_die_sv</td>
<td>NEED_die_sv_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES
To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

    perl ppport.h

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

    perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions for changes, use:

    perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

    perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

    perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function, use:

    perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

    perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

    perl ppport.h --api-info=/_/
to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report here: L<https://github.com/mhx/Devel-PPPort/issues/>

Please include the following information:

=over 4

=item 1.
The complete output from running "perl -V"

=item 2.
This file.

=item 3.
The name and version of the module you were trying to build.

=item 4.
A full log of the build that failed.

=item 5.
Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

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=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.39;

my %opt = (
    quiet => 0,
    diag => 1,
    hints => 1,
    changes => 1,
    cplusplus => 0,
    filter => 1,
    strip => 0,
    version => 0,
);

my($ppport) = $0 =~ /\[[\w.]+\]/;
my $LF = '(?:\r\n|\[\r\n\])';   # line feed
my $HS = '[ \t]';             # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/\*';
my $cce = '\*/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(%opt, qw(
        help quiet diag! filter! hints! changes! cplusplus strip version
        patch=s copy=s diff=s compat-version=s
        list-provided list-unsupported api-info=s
    )) or usage();
};
if ($@ and grep /^-/, @ARGV) {
    usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
    die "Getopt::Long not found. Please don't use any options.\n";
}

if ($opt{version}) {
    printf "This is $0 $VERSION.\n";
    exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
    my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
    if ($@) {
        die "Invalid version number format: $opt{'compat-version'}\n";
    }
    die "Only Perl 5 is supported\n" if $r != 5;
    die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
    $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
} else {
    $opt{'compat-version'} = 5;
}

my %API = map { /^(\w+)\|([^|]*)\|([^|]*)\|([^$]*)$/
    ? ( $1 => {
        ($2                  ? ( base     => $2 ) : ()),
        ($3                  ? ( todo     => $3 ) : ()),
        (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
        (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
        (index($4, 'n') >= 0 ? ( nothxarg =>$1 ) : ()),
    } )
    : die "invalid spec: $_" } qw(
ASCII_TO_NEED|5.007001
AvFILL|p|5.004050|p
AvFILL||
BhkDISABLE|5.024000|
BhkENABLE|5.024000|
BhkENTRY_set|5.024000|
BhkENTRY||
BhkFLAGS||
CALL_BLOCK_HOOKS||
CLASS||
CPERLscope|5.005000|p
CX_CURPAD_SAVE||
CX_CURPAD_SV||

---

Open Source Used In Intersight Kubernetes Service 1.0.15 20879
PL_curstash|5.004050||p
PL_debstash|5.004050||p
PL_defgv|5.004050||p
PL_diehook|5.004050||p
PL_dirty|5.004050||p
PL_dowarn|||pn
PL_errgv|5.004050||p
PL_error_count|5.024000||p
PL_expect|5.024000||p
PL_hexdigit|5.005000||p
PLHints|5.005000||p
PL_in_my_stash|5.024000||p
PL_in_my|5.024000||p
PL_keyword_plugin|5.011002|
PL_last_in_gv||n
PL_laststatval|5.005000||p
PL_lex_state|5.024000||p
PL_lex_stuff|5.024000||p
PL_linestr|5.024000||p
PL_modglobal|5.005000||n
PL_naj|5.004050||pn
PL_no_modify|5.006000||p
PL_ofsgv|||n
PL_opfreehook|5.011000||n
PL_parser|5.009005||p
PL_ppeepp|5.007003||n
PL_perl_destruct_level|5.004050||p
PL_perldb|5.004050||p
PL_ppaddr|5.006000||p
PL_rpeepp|5.013005||n
PL_rsfp_filters|5.024000||p
PL_rsfp|5.024000||p
PL_rs|||n
PL_signals|5.008001||p
PL_stack_base|5.004050||p
PL_stack_sp|5.004050||p
PL_statcache|5.005000||p
PL_stdingv|5.004050||p
PL_sv_areanaroot|5.004050||p
PL_sv_no|5.004050||pn
PL_sv_undef|5.004050||pn
PL_sv_yes|5.004050||pn
PL_tainted|5.004050||p
PL_tainting|5.004050||p
PL_tokenbuf|5.024000||p
POP_MULTICALL|5.024000|
POPI||n
POPI||n
SV_COW_DROP_PV|5.008001||p
SV_COW_SHARED_HASH_KEYS|5.009005||p
SV_GMAGIC|5.007002||p
SV_HAS_TRAILING_NUL|5.009004||p
SV_IMMEDIATE_UNREF|5.007001||p
SV_MUTABLE_RETURN|5.009003||p
SV_NOSTEAL|5.009002||p
SV_SMAGIC|5.009003||p
SV_UTF8_NO_ENCODING|5.008001||p
SVfARG|5.009005||p
SVf_UTF8|5.006000||p
SVf|5.006000||p
SVt_INVLIST|5.019002|
SVt_IV||
SVt_NULL||
SVt_NV||
SVt_PVAV||
SVt_PVCV||
SVt_PVFM||
SVt_PVGV||
SVt_PVHV||
SVt_PVIO||
SVt_PVIV||
SVt_PVLV||
SVt_PVMG||
SVt_PVNV||
SVt_PV||
SVt_REGEXP|5.011000|
Safefree||
Slab_Alloc||
Slab_Free||
Slab_to_ro||
Slab_to_rw||
StructCopy||
SvCUR_set||
SvCUR||
SvEND||
SvGAMAGIC|5.006001|
SvGETMAGIC|5.004050||p
SvGROW||
SvIOK_UV|5.006000|
SvIOK_notUV|5.006000|
SvIOK_off||
SvIOK_only_UV|5.006000|
SvIOK_only||
SvIOK_on||
SvIOKp||
SvIOK||
SvSetSV||
SvTAINTED_off|5.004000|
SvTAINTED_on|5.004000|
SvTAINTED||5.004000|
SvTAINT|||
SvTHINKFIRST||
SvTRUE_nomg|5.013006|
SvTRUE|||
SvTYPE|||
SvUNLOCK|5.007003|
SvUOK|5.007001|5.006000|p
SvUPGRADE|||
SvUTF8_off|5.006000|
SvUTF8_on|5.006000|
SvUTF8|5.006000|
SvUVXs|5.004000||p
SvUVX|5.004000||p
SvUV_nomg|5.009001||p
SvUV_set|5.009003||p
SvUVx|5.004000||p
SvUV|5.004000||p
SvVOK|5.008001|
SvVSTRING_mg|5.009004||p
THIS||n
UNDERBAR|5.009002||p
UTF8SKIP|5.006000|
UTF8_MAXBYTES|5.009002||p
UVCHR_SKIP|5.022000|
UVSIZE|5.006000||p
UVTYPE|5.006000||p
UVX|5.007001||p
UVo|5.006000||p
UVu|5.006000||p
UVx|5.006000||p
WARN_ALL|5.006000||p
WARN_AMBIGUOUS|5.006000||p
WARN_ASSERTIONS|5.024000||p
WARN_BAREWORD|5.006000||p
WARN_CLOSED|5.006000||p
WARN_CLOSURE|5.006000||p
WARN_DEBUGGING|5.006000||p
WARN_DEPRECATED|5.006000||p
WARN_DIGIT|5.006000||p
WARN_EXEC|5.006000||p
WARN_EXITING|5.006000||p
WARN_GLOB|5.006000||p
WARN_INPLACE|5.006000||p
WARN_INTERNAL|5.006000||p
WARN_IO|5.006000||p
WARN_LAYER|5.008000||p
WARN_MALLOC|5.006000||p
WARN_MISC|5.006000||p
WARN_NEWLINE|5.006000||p
WARN_NUMERIC|5.006000||p
WARN_ONCE|5.006000||p
WARN_OVERFLOW|5.006000||p
WARN_PACK|5.006000||p
WARN_PARENTHESIS|5.006000||p
WARN_PIPE|5.006000||p
WARN_PORTABLE|5.006000||p
WARN_PRECEDENCE|5.006000||p
WARN_PRINTF|5.006000||p
WARN_PROTOTYPE|5.006000||p
WARN_QW|5.006000||p
WARN_RECURSION|5.006000||p
WARN_REDEFINE|5.006000||p
WARN_REGEXP|5.006000||p
WARN_RESERVED|5.006000||p
WARN_SEMICOLON|5.006000||p
WARN_SEVERE|5.006000||p
WARN_SIGNAL|5.006000||p
WARN_SUBSTR|5.006000||p
WARN_SYNTAX|5.006000||p
WARN_TAINT|5.006000||p
WARN_THREADS|5.008000||p
WARN_UNINITIALIZED|5.006000||p
WARN_UNOPENED|5.006000||p
WARN_UNPACK|5.006000||p
WARN_UNTIE|5.006000||p
WARN_UTF8|5.006000||p
WARN_VOID|5.006000||p
WIDEST_UTYPE|5.015004||p
XCPT_CATCH|5.009002||p
XCPT_RETHROW|5.009002||p
XCPT_TRY.END|5.009002||p
XCPT_TRY.START|5.009002||p
XPUSH Hi||
XPUSH immortal|5.009002||p
XPUSHn||
XPUSH p||
XPUSH s||
XPUSH u|5.004000||p
XSPROTO|5.010000||p
XSRETURN EMPTY||
XSRETURN IV||
XSRETURN NO||
alloccopstash
allocmy
amagic_call
amagic_cmp_locale
amagic_cmp
amagic_deref_call
amagic_is_enabled
amagic_ncmp
anonymise_cv_maybe
any_dup
append_utf8_from_native_byte
apply_attrs_my
apply_attrs_string
apply_attrs
apply
assert_utf8_cache_coherent
assignment_type
atfork_lock
atfork_unlock
av_arylen_p
av_clear
av_create_and_push
av_create_and_unshift_one
av_delete
av_exists
av_extend_guts
av_extend
av_fetch
av_fill
av_iter_p
av_len
av_make
av_pop
av_push
av_reify
av_shift
av_store
av_tindex
av_top_index
av_undef
av_unshift
ax
backup_one_LB
backup_one_SB
backup_one_WB
bad_type_gv
cv_clone_into
  cv_clone
  cv_const_sv_or_av
  cv_const_sv
  cv_dump
  cv_forget_slab
  cv_get_call_checker
  cv_name
  cv_set_call_checker_flags
  cv_set_call_checker
  cv_undef_flags
  cv_undef
  cvgv_from_hek
  cvgv_set
  cvstash_set
  cx_dump
  cx_dup
  cx_popblock
  cx_popeval
  cx_popformat
  cx_popgiven
  cx_poploop
  cx_popsub_args
  cx_popsub_common
  cx_popsub
  cx_popwhen
  cx_pushblock
  cx_pusheval
  cx_pushformat
  cx_pushgiven
  cx_pushloop_for
  cx_pushloop_plain
  cx_pushsub
  cx_pushwhen
  cx_topblock
  cxinc
  dAXMARK
  dAX
  dITEMS
  dMARK
  dMULTICALL
  dMY_CXT_SV
  dMY_CXT
  dNOOP
  dORIGMARK
  dSP
  dTHR
  dTHXR
do_hv_dump||5.006000|
do_ipcctl|||
do_ipcget|||
do_join|||
do_magic_dump||5.006000|
do_msgrecv|||
do_msgsnd|||
doncmp|||
do_oddball|||
do_op_dump||5.006000|
do_open6|||
do_open9||5.006000|
do_open_raw|||
do_open_n||5.007001|
do_opn||5.003070|
do_pmop_dump||5.006000|
do_print|||
do_readline|||
do_seek|||
do_semop|||
do_shmio|||
do_smartmatch|||
do_spawn_nowait|||
do_spawn|||
do_sprintf|||
do_sv_dump||5.006000|
do_sysseek|||
do_tell|||
do_trans_complex_utf8|||
do_trans_complex|||
do_trans_count_utf8|||
do_trans_count|||
do_trans_simple_utf8|||
do_trans_simple|||
do_trans|||
do_vecget|||
do_vecset|||
do_vop|||
docatch|||
doeval_compile|||
dofile|||
dofindlabel|||
doform|||
doing_taint||5.008001|n
dooneliner|||
doopen_pm|||
doparseform|||
dopoptoeval|||
gv_try_downgrade
handle_named_backref
handle_possible_posix
handle_regex_sets
he_dup
hek_dup
hfree_next_entry
hsplit
hv_assert
hv_auxinit_internal
hv_auxinit
hv_backreferences_p
hv_clear_placeholders
hv_clear
hv_common_key_len
hv_common
hv_copy_hints_hv
hv_delayfree_ent
hv_delete_common
hv_delete_ent
hv_delete
hv_eiter_p
hv_eiter_set
hv_ename_add
hv_ename_delete
hv_exists_ent
hv_exists
hv_fetch_ent
hv_fetchs
hv_fetch
hv_fill
hv_free_ent_ret
hv_free_entries
hv_free_ent
hv_iterinit
hv_iterkeys
hv_iterkeys
hv_iternext
hv_iternext
hv_iterval
hv_kill_backrefs
hv_ksplit
hv_magic_check
hv_magic
hv_name_set
hv_notallowed
hv_placeholders_get
invlist_iterfinish
invlist_iterinit
invlist_iternext
invlist_max
invlist_previous_index
invlist_replace_list_destroys_src
invlist_set_len
invlist_set_previous_index
invlist_trim
invoke_exception_hook
io_close
isALNUMC
isALNUM_lazy
isALPHANUMERIC
isALPHA
isASCII
isBLANK
isCNTRL
isDIGIT
isFOO_lc
isFOO_utf8_lc
isGCB
isGRAPH
isIDCONT
isIDFIRST_lazy
isIDFIRST
isLB
isLOWER
isOCTAL
isPRINT
isPSXSPC
isPUNCT
isSB
isSPACE
isUPPER
isUTF8_CHAR
isWB
isWORDCHAR
isXDIGIT
is_an_int
is_ascii_string
is_handle_constructor
is_invariant_string
is_lvalue_sub
is_safe_syscall
is_ssc_worth_it
is_uni_alnum_lc
is_uni_alnumc_lc
mXPUSHp|5.009002||p
mXPUSHs|5.010001||p
mXPUSHu|5.009002||p
magic_clear_all_env||
magic_cleararylen_p||
magic_clearenv||
magic_clearhints||
magic_clearhint||
magic_clearisa||
magic_clearpack||
magic_clearsig||
magic_copycallchecker||
magic_dump||5.006000|
magic_existspack||
magic_freearylen_p||
magic_freeovrld||
magic_getarylen||
magic_getdebugvar||
magic_getdefelem||
magic_getnkeys||
magic_getpack||
magic_getpos||
magic_getsig||
magic_getsubstr||
magic_gettaint||
magic_getuvar||
magic_getvec||
magic_get||
magic_killbackrefs||
magic_methcall1||
magic_methcall1v||
magic_methpack||
magic_nextpack||
magic_regdata_ent||
magic_regdatum_get||
magic_regdatum_set||
magic_scalarpack||
magic_set_all_env||
magic_setarylen||
magic_setcollxfrm||
magic_setdbline||
magic_setdebugvar||
magic_setdefelem||
magic_setenv||
magic_sethint||
magic_setisa||
magic_setlvref||
magic_setmglob||
mg_magical
mg_set
mg_size[5.005000]
mini_mktime[5.007002]
minus_v
missingterm
mode_from_discipline
modkids
more_bodies
more_sv
moreswitches
move_proto_attr
mro_clean_isarev
mro_gather_and_rename
mro_get_from_name[5.010001]
mro_get_linear_isa_dfs
mro_get_linear_isa[5.009005]
mro_get_private_data[5.010001]
mro_isa_changed_in
mro_meta_dup
mro_meta_init
mro_method_changed_in[5.009005]
mro_package_moved
mro_register[5.010001]
mro_set_mro[5.010001]
mro_set_private_data[5.010001]
mul128
mulexp10
multideref_stringify
my_atof2[5.007002]
my_atof[5.006000]
myattrs
my_bcopy[5.004050]
my_bytes_to_utf8
my_bzero
my_chsize
my_clearenv
my_ctxt_index
my_ctxt_init
my_dirfd[5.009005]
my_exit_jump
my_exit
my_failure_exit[5.004000]
my_fflush_all[5.006000]
my_fork[5.007003]
my_kid
my_lstat_flags
my_lstat[5.024000]
my_memcmp
my_memset
my_pclose[5.003070]
my_popen_list[5.007001]
my_popen[5.003070]
my_setenv[
my_setlocale[
my_snprintf[5.009004]|pvn
my_socketpair[5.007003]|n
my_sprint[5.009003]|pvn
my_stat_flags[
my_stat[5.024000]
my_strerror[5.021001]
my_strftime[5.007002]
my_strlcrypt[5.009004]|pn
my_strlcpy[5.009004]|pn
my_unexec[
my_vsnprintf[5.009004]|n
need_utf8[
newANONATTRSUB[5.006000]
newANONHASH[
newANONLIST[
newANONSUB[
newASSIGNOP[
newATTRSUB_x[
newATTRSUB[5.006000]
newAVREF[
newAV[
newBINOP[
newCONDOP[
newCONSTSUB_flags[5.015006]
newCONSTSUB[5.004050]|p
newCVREF[
newDEFSVOP[5.021006]
newFORM[
newFOROP[5.013007]
newGIVENOP[5.009003]
newGIVWHENOP[
newGP[
newGVREF[
newGVOP[
newGVgen_flags[5.015004]
newGVgen[
newHVREF[
newHVhv[5.005000]
newHV[
newIO[
newLISTOP[

Open Source Used In Intersight Kubernetes Service 1.0.15 20913
newUNOP
newWHENOP\[5.009003\]
newWHILEOP\[5.013007\]
newXS_deffile
newXS_flags\[5.009004\]
newXS_len_flags
newXSproto\[5.006000\]
newXS\[5.006000\]
new_collate\[5.006000\]
new_constant
new CType\[5.006000\]
new_He
new_logop
new_numeric\[5.006000\]
new_stackinfo\[5.005000\]
new_version\[5.009000\]
new_warnings_bitfield
next_symbol
nextargv
nextchar
ninstr
no_bareword_allowed
no_fh_allowed
no_op
noperl_die\[vn\]
ot_a_number
not_incrementable
nothreadhook\[5.008000\]
nuke_stacks
num_overflow\[n\]
oopsAV
oopsHV
op_append_elem\[5.013006\]
op_append_list\[5.013006\]
op_clear
op_contextualize\[5.013006\]
op_convert_list\[5.021006\]
op_dump\[5.006000\]
op_free
op_integerize
op_linklist\[5.013006\]
op_Ivalue_flags
op_Ivalue\[5.013007\]
op_null\[5.007002\]
op_parent\[n\]
op_prepend_elem\[5.013006\]
op_refcnt_dec
op_refcnt_inc
op_refcnt_lock|5.009002|
op_refcnt_unlock|5.009002|
op_relocate_sv|
op_scope|5.013007|
op_sibling_splice|5.021002|
op_std_init|
op_unscope|
open_script|
openn_cleanup|
openn_setup|
opmethod_stash|
opslab_force_free|
opslab_free_nopad|
opslab_free|
output_or_return_posix_warnings|
pMY_CXT_|5.007003|
pMY_CXT|5.007003|
pTHX_|5.006000|
pTHX|5.006000|
packWARN|5.007003|
pack_cat|5.007003|
pack_rec|
package_version|
package|
packlist|5.008001|
pad_add_anon|5.008001|
pad_add_name_pvn|5.015001|
pad_add_name_pvs|5.015001|
pad_add_name_pv|5.015001|
pad_add_name_sv|5.015001|
pad_add_weakref|
pad_alloc_name|
pad_alloc|
垫_block_start|
pad_check_dup|
垫_compname_type|5.009003|
pad_findlex|
pad_findmy_pvn|5.015001|
pad_findmy_pvs|5.015001|
pad_findmy_pv|5.015001|
pad_findmy_sv|5.015001|
pad_fixup_inner_anons|
pad_free|
pad_leavemy|
pad_new|5.008001|
pad_push|
pad_reset|
pad_setsv|
pad_sv
pad_swipe
pad_tidy[5.008001]
padlist_dup
padlist_store
padname_dup
padname_free
padnamelist_dup
padnamelist_fetch[5.021007]
padnamelist_free
padnamelist_store[5.021007]
parse_arithexpr[5.013008]
parse_barestmt[5.013007]
parse_block[5.013007]
parse_body
parse_fullexpr[5.013008]
parse_fullstmt[5.013005]
parse_gv_stash_name
parse_ident
parse_label[5.013007]
parse_listexpr[5.013008]
parse_lparen_question_flags
parse_stmtseq[5.013006]
parse_subsignature
parse_termexpr[5.013008]
parse_unicode_opts
parser_dup
parser_free_nexttoke_ops
parser_free
path_is_searchable
peep
pending_ident
perl_alloc_using
perl_alloc
perl_clone_using
perl_clone
perl_construct
perl_destruct[5.007003]
perl_free
perl_parse[5.006000]
perl_run
pidgone
pm_description
pmop_dump[5.006000]
pmruntime
pmtrans
pop_scope
populate_ANYOF_from_invlist
savepvs|5.009003|
savepv||
savesharedpvn|5.009005|
savesharedpvs|5.013006|
savesharedpv|5.007003|
savesharedsvp|5.013006|
savestack_grow_cnt|5.008001|
savestack_grow||
savesvpv|5.009002|
savetmps|5.023008|
sawparens||
scalar_mod_type||n
scalarboolean||
scalarkids||
scalarseq||
scalarvoid||
scalar||
scan_bin|5.006000|
scan_commit||
scan_const||
scan_formline||
scan_heredoc||
scan_hex||
scan_ident||
scan_inputsymbol||
scan_num|5.007001|
scan_oct||
scan_pat||
scan_str||
scan_subst||
scan_trans||
scan_version|5.009001|
scan_vstring|5.009005|
scan_word||
search_const||
seed|5.008001|
sequence_num||
set_ANYOF_arg||
set_caret_X||
set_context|5.006000|n
set_numeric_local|5.006000|
set_numeric_radix|5.006000|
set_numeric_standard|5.006000|
set_padlist||n
setdefout||
share_hek_flags||
share_hek|5.004000|
should_warn_nil|n
valid_utf8_to_uvuni[5.015009]
validate_proto||
validate_suid||
varname||
vcmp[5.009000]
vcroak[5.006000]
vdeb[5.007003]
vform[5.006000]
visit||
vivify_defelem||
vivify_ref||
vlload_module[5.006000]|p
vmsg[5.006000]|p
vnewSVpvn[5.006000]|5.004000|p
vnormal[5.009002]
vnumify[5.009000]
vstringify[5.009000]
vverify[5.009003]
vwarn[5.006000]
vwarner[5.006000]
wait4pid||
warn_nocontext[|pvn
warn_sv[5.013001]|p
warner_nocontext[|vn
warn[5.006000]|5.004000|pv
warn[5.006000]|v
was_lvalue_sub||
watch||
whichsig_pvn[5.015004]
whichsig_pv[5.015004]
whichsig_sv[5.015004]
whichsig||
win32_croak_not_implemented[|n
with_queued_errors||
wrap_op_checker[5.015008]
write_to_stderr||
xs_boot_epilog||
xs_handshake[|vn
xs_version_bootcheck||
yyerror_pvn||
yyerror_pv||
yyerror[||
yylex||
yparse||
yyunlex||
yywarn||
);
if (exists $opt{'list-unsupported'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{todo};
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n

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next unless $f =~ /$match/;
print "\n===== $f =====\n";
my $info = 0;
if ($API{$f}{base} || $API{$f}{todo}) {
    my $base = format_version($API{$f}{base} || $API{$f}{todo});
    print "Supported at least starting from perl-$base\n";
    $info++;
}
if ($API{$f}{provided}) {
    my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
    print "Support by $ppport provided back to perl-$todo\n";
    print "Support needs to be explicitly requested by NEED_$f\n" if exists $need{$f};
    print "Depends on: ", join(’,’, @{$depends{$f}}), ",\n" if exists $depends{$f};
    print "\nShints[$f]" if exists $shints{$f};
    print "\nWARNING:\nwarnings[$f]" if exists $warnings{$f};
    $info++;
}
print "No portability information available\n" unless $info;
$count++;
}
$count or print "Found no API matching \'$opt{\'api-info\'}\'.\n";
print "\n";
exit 0;
}
if (exists $opt{\'list-provided\'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $API{$f}{provided};
    my @flags;
    push @flags, 'explicit' if exists $need{$f};
    push @flags, 'depend'   if exists $depends{$f};
    push @flags, 'hint'     if exists $shints{$f};
    push @flags, 'warning'  if exists $warnings{$f};
    my $flags = @flags ? '  [' . join(', ', @flags) . ']' : "";
    print "$f$flags\n";
}
exit 0;
}
my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join ' ', map { quotemeta $_ } @srcext;
if (@ARGV) {
    my %seen;
    for (@ARGV) {
        if (-e) {
            my $file = 

if (-f) {
push @files, $_ unless $seen{$_}++;
}
else { warn "'$_' is not a file.\n" }
}
else {
my @new = grep { -f } glob $_
or warn "'$_' does not exist.\n";
push @files, grep { !$seen{$_}++ } @new;
}
}
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";

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next;
}

info("Scanning $filename ...");

my $c = do { local $/; <IN> }

my @deps = rec_depend($func);

for ($func, @deps) {
    $file{needs}{$_} = 'static' if exists $need{$_};
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{\'compat-version\'}) {
    if ($c =~ /\b$func\b/) {
        $file{uses_todo}{$func}++;  
    }
}

while ($c =~ /\^\$HS*define\$HS+(NEED_\(w+?\)(_GLOBAL)?\$/b/mg) {
    if (exists $need{$2}) {
        $file{defined $3 ? \'needed_global\' : \'needed_static\'}{$2}++;  
    } else { warning("Possibly wrong \#define $1 in $filename") }
}

for (qw(uses needs uses_todo needed_global needed_static)) {
    for $func (keys %{$file{$_}}) {
        push @{ $global{$_}[$func] }, $filename;
    }
}

$files{$filename} = \%file;
}

# Globally resolve NEED_\'s
my $need;
for $need (keys %{$global{needs}}) {
    if (@{$global{needs}{$need}} > 1) {
        my @targets = @{$global{needs}{$need}};
        my @t = grep $files{$_}{'needed_global'}{$need}, @targets;
        @targets = @t if @t;
        @t = grep /[xs]/i, @targets;
        @targets = @t if @t;
        my $Target = shift @targets;
        $files{$Target}{needs}{$need} = \'global\';
        for (@{$global{needs}{$need}}) {
            $files{$_}{needs}{$need} = \'extern\' if $_ ne $Target;
        }
    }
}

for $filename (@files) {
    exists $files{$filename} or next;

    info("== Analyzing $filename ==");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;

for $func (sort keys %$file{uses_Perl}) {
    if ($API{$func}{varargs}) {
        unless ($API{$func}{nothxarg}) {
            my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)\(?aTHX_\?)(?!aTHX_\?)\([^\s)]*\))\s*\1$\2\ge}{ $1 . ($2 eq ') ? 'aTHX' : 'aTHX_ ' . $2 }ge);
            if ($changes) {
                warning("Doesn't pass interpreter argument aTHX to Perl_$func");
                $file{changes} += $changes;
            } else {
                warning("Uses Perl_$func instead of $func");
                $file{changes} += ($c =~ s{\bPerl_$func\s*\(\s*)\(?aTHX_\?)(?!aTHX_\?)*\s*\1\2\ge}{ $func$1\1\2\2 \ge }ge);
            }
        } else {
            warning("Uses Perl_$func instead of $func");
            $file{changes} += ($c =~ s{\bPerl_$func\s*\(\s*)\(?aTHX_\?)(?!aTHX_\?)\([^\s)]*\))\s*\1$\2\ge}{ $1 . ($2 eq ') ? 'aTHX' : 'aTHX_ ' . $2 }ge);
        }
    } else {
        warning("Uses Perl_$func instead of $func");
        $file{changes} += ($c =~ s{\bPerl_$func\s*\(\s*)\(?aTHX_\?)(?!aTHX_\?)\([^\s)]*\))\s*\1$\2\ge}{ $1 . ($2 eq ') ? 'aTHX' : 'aTHX_ ' . $2 }ge);
    }
}

for $func (sort keys %$file{uses_replace}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s{\b$func\s*\(\s*)\(?aTHX_\?)(?!aTHX_\?)\([^\s)]*\))\s*\1$\2\ge}{ $1 . ($2 eq ') ? 'aTHX' : 'aTHX_ ' . $2 }ge);
}

for $func (sort keys %$file{uses_provided}) {
    if ($file{uses}{$func}) {
        if (exists $file{uses_deps}{$func}) {
            diag("Uses $func, which depends on ", join(',', @{$file{uses_deps}{$func}}));
        } else {
            diag("Uses $func");
        }
    }
    $warnings += hint($func);
}

unless ($opt{quiet}) {
    for $func (sort keys %$file{uses_todo}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
            format_version($API{$func}{todo}), ", even with "$ppport\n";
        $warnings++;
    }
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = ";
    if (not exists $file{uses}{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    } elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    } if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
    }
}

for $func (sort keys %{$file{needed_global}}) {
    my $message = ";
    if (not exists $global{uses}{$func}) {
        $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
    } elsif (exists $file{needs}{$func}) {
        if ($file{needs}{$func} eq 'extern') {
            $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
        } elsif ($file{needs}{$func} eq 'static') {
            $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
        } } if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
    }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = ";
    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}{$func};
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "";
        unless (exists $file{"needed_$type"}{$func}) {
            if ($type eq 'global') {
                diag("Files [@{$global{needs}{$func}}] need $func, adding global request");
            } else {

```
diag("File needs $func, adding static request");
}
$pp .= "#define NEED_$func$suffix\n";
}
}

if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)+/$pp/m)) {
    $pp = ";
    $file{changes}++;;
}

unless ($file{has_inc_ppport}) {
    diag("Needs to include '$ppport'");
    $pp .= qq(#include "$ppport\n")
}

if ($pp) {
    $file{changes} += ($c =~ s/\(^\$HS*?#$HS*define\$HS+NEED_\w+\)+\$/1\$pp/ms)
        || ($c =~ s/\(^?\$HS*#$HS*include.*\Q$ppport\E\$/\$pp/m)
        || ($c =~ s/\(^\$HS*#$HS*include.*XSUB.*\s*?\)/\$1\$pp/m)
        || ($c =~ s/\(^?\$HS*?#$HS*include.*\E.*?\$/1\$pp/m)
}
}
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include '$ppport'");
        $file{changes} += ($c =~ s/\/^\$HS*?#$HS*include.*\E.*?\$LF//m);
    }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
    }
    else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
    }
}

if ($cppc) {
    my $s = $cppc != 1 ? 's' : ";
    warning("Uses $cppc C++ style comment$s, which is not portable");
}
my $s = $warnings != 1 ? 's' : ';
my $warn = $warnings ? " ($warnings warning$s)" : ";
info("Analysis completed$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("$newfile' already exists, refusing to write copy of '$filename'");
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'");
                print F $c;
                close F;
            } else {
                error("Cannot open '$newfile' for writing: $!");
            }
        }
    } elsif (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
            unless ($patch_opened) {
                if (open PATCH, ">$opt{patch}") {
                    $patch_opened = 1;
                } else {
                    error("Cannot open '$opt{patch}' for writing: $!");
                    delete $opt{patch};
                    $opt{changes} = 1;
                    goto fallback;
                }
            }
            mydiff(*PATCH, $filename, $c);
        } else {
            fallback:
            info("Suggested changes:");
            mydiff(*STDOUT, $filename, $c);
        }
    } else {
        my $s = $file{changes} == 1 ? '' : 's';
        info("$file{changes} potentially required change$s detected");
    }
}
else {
    info("Looks good");
}
}

close PATCH if $patch_opened;

exit 0;

sub try_use { eval "use @_"; return $@ eq ""
}

sub mydiff
{
    local *F = shift;
    my($file, $str) = @_;
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if (!defined $diff and try_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff;
        --- $file
        +++ $file.patched
        HEADER
    }

    if (!defined $diff) {
        $diff = run_diff('diff -u', $file, $str);
    }

    if (!defined $diff) {
        $diff = run_diff('diff', $file, $str);
    }

    if (!defined $diff) {
        error("Cannot generate a diff. Please install Text::Diff or use --copy.");
        return;
    }

    print F $diff;
}

sub run_diff
{  
    my($prog, $file, $str) = @_;  
    my $tmp = 'dppptemp';  
    my $suf = 'aaa';  
    my $diff = '';  
    local *F;  

    while (-e "$tmp.$suf") { $suf++ }  
    $tmp = "$tmp.$suf";  

    if (open F, ">$tmp") {  
        print F $str;  
        close F;  

        if (open F, "$prog $file $tmp |") {  
            while (<F>) {  
                s/\Q$tmp\E/$file.patched/;  
                $diff .= $_;  
            }  
            close F;  
            unlink $tmp;  
            return $diff;  
        }  
    }  

    unlink $tmp;  
    }  
    else {  
        error("Cannot open '$tmp' for writing: $!");  
    }  

    return undef;  
}

sub rec_depend  
{  
    my($func, $seen) = @_;  
    return () unless exists $depends{$func};  
    $seen = {%{$seen||{}}};  
    return () if $seen->{$func}++;  

    my %s;  
    grep !s{$_}++, map { ($_->rec_depend($_, $seen)) @ {$depends{$func}} } @{$depends{$func}};  
}

sub parse_version  
{  
    my $ver = shift;  

    if ($ver =~ /\d+(\d+)(\d+)/) {  

}
return ($1, $2, $3);
}
elsif ($ver !~ /^\d+\.[\d-.]+$/) {
    die "cannot parse version '$ver'
";
}

$ver =~ s/_//g;
$ver =~ s/$/000000/;

my($r,$v,$s) = $ver =~ /\d+\.\d{3}\d{3}/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "invalid version '$ver'
";
    }
}

return ($r, $v, $s);
}

sub format_version
{
    my $ver = shift;

    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\d+\.\d{3}\d{3}/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "invalid version '$ver'
";
        }
    }
    $s /= 10;

    $ver = sprintf "%d.%03d", $r, $v;
    $s > 0 and $ver .= sprintf "_.%02d", $s;

    return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;
}
sub info
{
$opt{quiet} and return;
print @_, "\n";
}
sub diag
{
$opt{quiet} and return;
$opt{diag} and print @_, "\n";
}
sub warning
{
$opt{quiet} and return;
print "*** ", @_, "\n";
}
sub error
{
print "*** ERROR: ", @_, "\n";
}
my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );

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$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]*)>/SM\$1$2SM\$1)/g;

print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE

exit 2;
}

sub strip
{
    my $self = do { local(@ARGV,$/)=($0); <> }; 
    my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
    $copy =~ s/^(?=$HS+)/    /gms;
    $self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
    $self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (!@ARGV && \$ARGV[0] eq '--unstrip') {
    eval { require Devel::PPPort }; 
    \$@ and die "Cannot require Devel::PPPort, please install.\n";
    if (eval \$Devel::PPPort::VERSION < \$VERSION) {
        die "$0 was originally generated with Devel::PPPort VERSION.\n";
        "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\n"
        "Please install a newer version, or --unstrip will not work.\n";
    }
    Devel::PPPort::WriteFile($0);
    exit 0;
}
print <<END;
Sorry, but this is a stripped version of \$0.
To be able to use its original script and doc functionality,
please try to regenerate this file using:

\$^X \$0 --unstrip
END

/my($pl, $c) = $self =~ /^(.*^__DATA__)\.(.*)/ms;
$c =~ s{ \[(?: [^\[\n]* ) | ( "[^\"\r\n]* " ) | ( '[^\']* ' ) | ( \^[^\]^*+ ) };
Cwd - get pathname of current working directory

=head1 SYNOPSIS

use Cwd;
my $dir = getcwd;

use Cwd 'abs_path';
my $abs_path = abs_path($file);

=head1 DESCRIPTION

This module provides functions for determining the pathname of the current working directory. It is recommended that getcwd (or another *cwd() function) be used in I<all> code to ensure portability.

By default, it exports the functions cwd(), getcwd(), fastcwd(), and fastgetcwd() (and, on Win32, getdcwd()) into the caller's namespace.

=head2 getcwd and friends

Each of these functions are called without arguments and return the absolute path of the current working directory.

=over 4
Returns the current working directory. On error returns C<undef>, with C<$!> set to indicate the error.

Exposes the POSIX function getcwd(3) or re-implements it if it's not available.

The cwd() is the most natural form for the current architecture. For most systems it is identical to `pwd` (but without the trailing line terminator).

A more dangerous version of getcwd(), but potentially faster.

It might conceivably chdir() you out of a directory that it can't chdir() you back into. If fastcwd encounters a problem it will return undef but will probably leave you in a different directory. For a measure of extra security, if everything appears to have worked, the fastcwd() function will check that it leaves you in the same directory that it started in. If it has changed it will C<die> with the message "Unstable directory path, current directory changed unexpectedly". That should never happen.

The fastgetcwd() function is provided as a synonym for cwd().

The getdcwd() function is also provided on Win32 to get the current working directory on the specified drive, since Windows maintains a separate current working directory for each drive. If no drive is specified then the current
drive is assumed.

This function simply calls the Microsoft C library _getcwd() function.

=head2 abs_path and friends

These functions are exported only on request. They each take a single argument and return the absolute pathname for it. If no argument is given they'll use the current working directory.

=item abs_path

my $abs_path = abs_path($file);

Uses the same algorithm as getcwd(). Symbolic links and relative-path components ("." and ".") are resolved to return the canonical pathname, just like realpath(3). On error returns C<undef>, with C<$!> set to indicate the error.

=item realpath

my $abs_path = realpath($file);

A synonym for abs_path().

=item fast_abs_path

my $abs_path = fast_abs_path($file);

A more dangerous, but potentially faster version of abs_path.

=head2 $ENV{PWD}

If you ask to override your chdir() built-in function,

use Cwd qw(chdir);

then your PWD environment variable will be kept up to date. Note that it will only be kept up to date if all packages which use chdir import it from Cwd.
=head1 NOTES

=item *
Since the path separators are different on some operating systems (‘/’ on Unix, ‘:’ on MacPerl, etc...) we recommend you use the File::Spec modules wherever portability is a concern.

=item *
Actually, on Mac OS, the C<getcwd()>, C<fastgetcwd()> and C<fastcwd()> functions are all aliases for the C<cwd()> function, which, on Mac OS, calls `pwd`. Likewise, the C<abs_path()> function is an alias for C<fast_abs_path()>.

=back

=hr

=head1 AUTHOR

Originally by the perl5-porters.

Maintained by Ken Williams <KWILLIAMS@cpan.org>

=hr

=head1 COPYRIGHT

Copyright (c) 2004 by the Perl 5 Porters. All rights reserved.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Portions of the C code in this library are copyright (c) 1994 by the Regents of the University of California. All rights reserved. The license on this code is compatible with the licensing of the rest of the distribution - please see the source code in F<Cwd.xs> for the details.

=hr

=head1 SEE ALSO

L<File::chdir>

=cut

Found in path(s):
* /opt/cola/permits/1185063337_1627670867.91/0/perl-PathTools-3.74-1.el8-1.src.rpm-cosi-expand-archive-Jm05CpxD/PathTools-3.74.tar.gz-cosi-expand-archive-0uMF8yTu/PathTools-3.74/Cwd.pm
No license file was found, but licenses were detected in source scan.

---

abstract: 'Tools for working with directory and file names'
author:
  - 'Perl 5 Porters'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: PathTools
no_index:
directory:
  - t
  - inc
requires:
  Carp: '0'
  File::Basename: '0'
  Scalar::Util: '0'
  Test::More: '0.88'
resources:
  bugtracker: https://rt.perl.org/rt3/
  homepage: http://dev.perl.org/
  repository: git://perl5.git.perl.org/perl.git
  version: '3.74'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
  */opt/cola/permits/1185063337_1627670867.91/0/perl-PathTools-3.74-1.el8-1.src.rpm-cosi-expand-archive-Jm05CpxD/PathTools-3.74.tar.gz-cosi-expand-archive-0uMF8yTu/PathTools-3.74/META.yml

No license file was found, but licenses were detected in source scan.

=back

=head1 COPYRIGHT

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=cut
=head1 NAME

File::Spec - portably perform operations on file names

=head1 SYNOPSIS

```perl
use File::Spec;
$x = File::Spec->catfile('a', 'b', 'c');
```

which returns 'a/b/c' under Unix. Or:

```perl
use File::Spec::Functions;
$x = catfile('a', 'b', 'c');
```

=head1 DESCRIPTION

This module is designed to support operations commonly performed on file
specifications (usually called "file names", but not to be confused with the
contents of a file, or Perl's file handles), such as concatenating several
directory and file names into a single path, or determining whether a path
is rooted. It is based on code directly taken from MakeMaker 5.17, code
written by Andreas Koenig, Andy Dougherty, Charles Bailey, Ilya
Zakharevich, Paul Schinder, and others.

Since these functions are different for most operating systems, each set of
OS specific routines is available in a separate module, including:

File::Spec::Unix
File::Spec::Mac
File::Spec::OS2
File::Spec::Win32
File::Spec::VMS

The module appropriate for the current OS is automatically loaded by
File::Spec. Since some modules (like VMS) make use of facilities available
only under that OS, it may not be possible to load all modules under all
operating systems.

Since File::Spec is object oriented, subroutines should not be called directly,
as in:
but rather as class methods:

For simple uses, L<File::Spec::Functions> provides convenient functional forms of these methods.

=head1 METHODS

=over 2

=item canonpath
X<canonpath>

No physical check on the filesystem, but a logical cleanup of a path.

$spath = File::Spec->canonpath( $path ) ;

Note that this does *not* collapse F<x/../y> sections into F<y>. This is by design. If F</foo> on your system is a symlink to F</bar/baz>, then F</foo/../quux> is actually F</bar/quux>, not F</quux> as a naive F<../>-removal would give you. If you want to do this kind of processing, you probably want C<Cwd>'s C<realpath()> function to actually traverse the filesystem cleaning up paths like this.

=item catdir
X<catdir>

Concatenate two or more directory names to form a complete path ending with a directory. But remove the trailing slash from the resulting string, because it doesn't look good, isn't necessary and confuses OS/2. Of course, if this is the root directory, don't cut off the trailing slash :-)  

$path = File::Spec->catdir( @directories ) ;

=item catfile
X<catfile>

Concatenate one or more directory names and a filename to form a complete path ending with a filename 

$path = File::Spec->catfile( @directories, $filename ) ;
=item curdir
X<curdir>

Returns a string representation of the current directory.

$curdir = File::Spec->curdir();

=item devnull
X<devnull>

Returns a string representation of the null device.

$devnull = File::Spec->devnull();

=item rootdir
X<rootdir>

Returns a string representation of the root directory.

$rootdir = File::Spec->rootdir();

=item tmpdir
X<tmpdir>

Returns a string representation of the first writable directory from a list of possible temporary directories. Returns the current directory if no writable temporary directories are found. The list of directories checked depends on the platform; e.g. File::Spec::Unix checks C<$ENV{TMPDIR}> (unless taint is on) and F</tmp>.

$tmpdir = File::Spec->tmpdir();

=item updir
X<updir>

Returns a string representation of the parent directory.

$updir = File::Spec->updir();

=item no_upwards

Given a list of files in a directory (such as from C<readdir()>), strip out C<.''> and C<../'>.

B<SECURITY NOTE:> This does NOT filter paths containing C<../>, like C<./.././etc/passwd>, only literal matches to C<.''> and C<../'>.

@paths = File::Spec->no_upwards( readdir $dirhandle );
=item case_tolerant

Returns a true or false value indicating, respectively, that alphabetic case is not or is significant when comparing file specifications. Cygwin and Win32 accept an optional drive argument.

$\text{is\_case\_tolerant} = \text{File:\text{:Spec}\rightarrow\text{case\_tolerant}}();$

=item file_name_is_absolute

Takes as its argument a path, and returns true if it is an absolute path.

$\text{is\_absolute} = \text{File:\text{:Spec}\rightarrow\text{file\_name\_is\_absolute}}(\text{\$path});$

This does not consult the local filesystem on Unix, Win32, OS/2, or Mac OS (Classic). It does consult the working environment for VMS (see L<File::Spec::VMS/file_name_is_absolute>).

=item path

\text{X<path>}

Takes no argument. Returns the environment variable C<PATH> (or the local platform's equivalent) as a list.

@\text{PATH} = \text{File::Spec}\rightarrow\text{path}();$

=item join

\text{X<join, path>}

join is the same as catfile.

=item splitpath

\text{X<splitpath> X<split, path>}

Splits a path in to volume, directory, and filename portions. On systems with no concept of volume, returns " for volume.

($\text{volume},$\text{directories},$\text{file}) = 
\text{File::Spec}\rightarrow\text{splitpath}(\text{Spath});$

($\text{volume},$\text{directories},$\text{file}) = 
\text{File::Spec}\rightarrow\text{splitpath}(\text{Spath},$\text{no\_file});$

For systems with no syntax differentiating filenames from directories, assumes that the last file is a path unless C<$\text{no\_file}> is true or a trailing separator or F</.> or F</..> is present. On Unix, this means that C<$\text{no\_file}> true makes this return ( ", $\text{path}, ")$.  

The directory portion may or may not be returned with a trailing '/'.

The results can be passed to L</catpath()> to get back a path equivalent to (usually identical to) the original path.

=item splitdir
X<splitdir> X<split, dir>

The opposite of L</catdir>.

@dirs = File::Spec->splitdir( $directories );

C<$directories> must be only the directory portion of the path on systems that have the concept of a volume or that have path syntax that differentiates files from directories.

Unlike just splitting the directories on the separator, empty directory names (C<''>) can be returned, because these are significant on some OSes.

=item catpath()

Takes volume, directory and file portions and returns an entire path. Under Unix, C<$volume> is ignored, and directory and file are concatenated. A '/' is inserted if need be. On other OSes, C<$volume> is significant.

$full_path = File::Spec->catpath( $volume, $directory, $file );

=item abs2rel
X<abs2rel> X<absolute, path> X<relative, path>

Takes a destination path and an optional base path returns a relative path from the base path to the destination path:

$rel_path = File::Spec->abs2rel( $path ) ;
$rel_path = File::Spec->abs2rel( $path, $base ) ;

If C<$base> is not present or '', then L<Cwd::cwd()> is used. If C<$base> is relative, then it is converted to absolute form using L</rel2abs()> . This means that it is taken to be relative to L<Cwd::cwd()>.

On systems with the concept of volume, if C<$path> and C<$base> appear to be on two different volumes, we will not attempt to resolve the two paths, and we will instead simply return C<$path>. Note that previous versions of this module ignored the volume of C<$base>, which resulted in garbage results part of the time.
On systems that have a grammar that indicates filenames, this ignores the \texttt{C<$base>} filename as well. Otherwise all path components are assumed to be directories.

If \texttt{C<$path>} is relative, it is converted to absolute form using \texttt{L</rel2abs()>}. This means that it is taken to be relative to \texttt{L<Cwd::cwd()>}. 

No checks against the filesystem are made. On VMS, there is interaction with the working environment, as logicals and macros are expanded.

Based on code written by Shigio Yamaguchi.

\item \texttt{rel2abs()}
\item \texttt{X<rel2abs> X<absolute, path> X<relative, path>}

Converts a relative path to an absolute path.

\begin{verbatim}
$abs_path = File::Spec->rel2abs( $path ) ;
$abs_path = File::Spec->rel2abs( $path, $base ) ;
\end{verbatim}

If \texttt{C<$base>} is not present or \texttt{""}, then \texttt{L<Cwd::cwd()>} is used. If \texttt{C<$base>} is relative, then it is converted to absolute form using \texttt{L</rel2abs()>}. This means that it is taken to be relative to \texttt{L<Cwd::cwd()>}.

On systems with the concept of volume, if \texttt{C<$path>} and \texttt{C<$base>} appear to be on two different volumes, we will not attempt to resolve the two paths, and we will instead simply return \texttt{C<$path>}. Note that previous versions of this module ignored the volume of \texttt{C<$base>}, which resulted in garbage results part of the time.

On systems that have a grammar that indicates filenames, this ignores the \texttt{C<$base>} filename as well. Otherwise all path components are assumed to be directories.

If \texttt{C<$path>} is absolute, it is cleaned up and returned using \texttt{L</canonpath>}. 

No checks against the filesystem are made. On VMS, there is interaction with the working environment, as logicals and macros are expanded.

Based on code written by Shigio Yamaguchi.

\item \texttt{back}

For further information, please see \texttt{L<File::Spec::Unix>}, \texttt{L<File::Spec::Mac>}, \texttt{L<File::Spec::OS2>}, \texttt{L<File::Spec::Win32>}, or \texttt{L<File::Spec::VMS>}.

\item \texttt{back}
SEE ALSO

L<File::Spec::Unix>, L<File::Spec::Mac>, L<File::Spec::OS2>,
L<File::Spec::Win32>, L<File::Spec::VMS>, L<File::Spec::Functions>,
L<ExtUtils::MakeMaker>

AUTHOR

Currently maintained by Ken Williams C<< <KWILLIAMS@cpan.org> >>.

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VMS support by Charles Bailey C<< <bailey@newman.upenn.edu> >>.
OS/2 support by Ilya Zakharevich C<< <ilya@math ohio-state.edu> >>.
Mac support by Paul Schinder C<< <schinder@pobox.com> >>, and
Thomas Wegner C<< <wegner_thomas@yahoo.com> >>.
abs2rel() and rel2abs() written by Shigio Yamaguchi C<< <shigio@tamacom.com> >>,
modified by Barrie Slaymaker C<< <barries@slaysys.com> >>.
splitpath(), splitdir(), catpath() and catdir() by Barrie Slaymaker.

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NAME

File::Spec::Functions - portably perform operations on file names

SYNOPSIS

use File::Spec::Functions;
$x = catfile('a','b');

DESCRIPTION
This module exports convenience functions for all of the class methods provided by File::Spec.

For a reference of available functions, please consult L<File::Spec::Unix>, which contains the entire set, and which is inherited by the modules for other platforms. For further information, please see L<File::Spec::Mac>, L<File::Spec::OS2>, L<File::Spec::Win32>, or L<File::Spec::VMS>.

=head2 Exports

The following functions are exported by default.

canonpath
catdir
catfile
curdir
rootdir
updir
no_upwards
file_name_is_absolute
path

The following functions are exported only by request.

devcnull
tmpdir
splitpath
splitdir
catpath
abs2rel
rel2abs
case_tolerant

All the functions may be imported using the C<:ALL> tag.

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=head1 SEE ALSO

File::Spec, File::Spec::Unix, File::Spec::Mac, File::Spec::OS2, File::Spec::Win32, File::Spec::VMS, ExtUtils::MakeMaker
Found in path(s):
* /opt/cola/permits/1185063337_1627670867.91/0/perl-PathTools-3.74-1.el8-1.src.rpm-cosi-expand-archive-
  Jm05CpxD/PathTools-3.74.tar.gz-cosi-expand-archive-0uMF8yTu/PathTools-3.74/lib/File/Spec/Functions.pm
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=head1 NAME

File::Spec::OS2 - methods for OS/2 file specs

=head1 SYNOPSIS

require File::Spec::OS2; # Done internally by File::Spec if needed

=head1 DESCRIPTION

See L<File::Spec> and L<File::Spec::Unix>.  This package overrides the
implementation of these methods, not the semantics.

Amongst the changes made for OS/2 are...

=over 4

=item tmpdir

Modifies the list of places temp directory information is looked for.

    $ENV{TMPDIR}
    $ENV{TEMP}
    $ENV{TMP}
    /tmp
    /

=item splitpath

Volumes can be drive letters or UNC sharenames (\server\share).

=back

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Authors

See the authors list in File::Spec. Mac OS support by Paul Schinder <schinder@pobox.com> and Thomas Wegner <wegner_thomas@yahoo.com>.

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See Also

See File::Spec and File::Spec::Unix. This package overrides the implementation of these methods, not the semantics.

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SEE ALSO

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the implementation of these methods, not the semantics.

An explanation of VMS file specs can be found at L<http://h71000.www7.hp.com/doc/731FINAL/4506/4506pro_014.html#apps_locating_naming_files>.

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Please submit bug reports and patches to perlbug@perl.org.

SEE ALSO

L<File::Spec>

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Note For File::Spec::Win32 Maintainers

Novell NetWare inherits its File::Spec behaviour from File::Spec::Win32.
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=head1 SEE ALSO

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the
implementation of these methods, not the semantics.

=cut

Found in path(s):
* /opt/cola/permits/1185063337_1627670867.91/0/perl-PathTools-3.74-1.el8-1.src.rpm-cosi-expand-archive-Jm05CpxD/PathTools-3.74.tar.gz-cosi-expand-archive-0uMF8yTu/PathTools-3.74/lib/File/Spec/Win32.pm
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=head1 AUTHOR

o.flebbe@gmx.de

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=head1 SEE ALSO

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the
implementation of these methods, not the semantics.

=cut

Found in path(s):
* /opt/cola/permits/1185063337_1627670867.91/0/perl-PathTools-3.74-1.el8-1.src.rpm-cosi-expand-archive-Jm05CpxD/PathTools-3.74.tar.gz-cosi-expand-archive-0uMF8yTu/PathTools-3.74/lib/File/Spec/Epoc.pm
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1.1791 libss 1.44.5 1+deb10u3

1.1791.1 Available under license:

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

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This package was put together by Yann Dirson <dirson@debian.org>,
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Description library. It is currently distributed together with the EXT2 file
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This package was put together by Yann Dirson <dirson@debian.org>,
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1.1793 debianutils 4.8.4

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//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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## go-diff - https://github.com/sergi/go-diff

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## golcs - https://github.com/yudai/golcs

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## cli.go - https://github.com/codegangsta/cli

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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tomb - support for clean goroutine termination in Go.

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1.1809 base-passwd 3.5.43
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* /opt/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.c
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$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $

Read the comments at the top of the Makefile, then edit the area marked
'configurable stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the
top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since
both the daemon and the `crontab' program will do this the first time they
run if they don't exist. You do need to have a /var, though -- just "mkdir
/var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var"
if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you
change the Makefile. These will have to be created by hand, but if you are
a long-time Usenet user you probably have them already. /usr/local/man is
where I keep my man pages, but I have the source for `man' and you probably
do not. Therefore you may have to put the man pages into /usr/man/manl,
which will be hard since there will be name collisions. (Note that the man
command was originally written by Bill Joy before he left Berkeley, and it
contains no AT&T code, so it is in UUNET's archive of freely-distributable
BSD code.)
LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL to be /usr/bin/sendmail even though sendmail is installed in /usr/lib. you should check this out.

say:
make all

su and say:
make install

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the `crontab` command to install all the little pieces you just created.
Some examples (see below before trying any of these!)

crontab -u uucp -r /usr/lib/uucp/crontab.src

 crontab -u news -r /usr/lib/news/crontab.src

 crontab -u root -r /usr/adm/crontab.src

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have no effect until they are reinstalled with another `crontab -r` command. (2) The crontab command will affect the crontab of the person using the command unless `-u USER` is given; `-u` only works for root. When using most `su` commands under most BSD's, `crontab` will still think of you as yourself even though you may think of yourself as root -- so use `-u` liberally. (3) the `-r` option stands for `replace`; check the man page for crontab(1) for other possibilities.

Kill your existing cron daemon -- do `ps aux` and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up /etc/cron. Comment it out and add a line to start the new cron daemon -- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron (or whatever); no `&` is needed since the daemon forks itself and the process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX, you will need the public-domain "libndir", found in the B News source and in any comp.sources.unix archive. You will also need to hack the code some.

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* /opt/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/Makef

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` $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $

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$Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $

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1.1812 registry-auth-token 3.4.0
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1.1814 alpine-baselayout 3.2.0-r8

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1.1818 libstd-c 6.3.0-18+deb9u1

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson (jep@mtiage.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied Linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlef (detlef@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.

David Chase, then at Olivetti Research, suggested several improvements.

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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executable containing the modified Library. (It is understood
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# These lines make the symbols to get a @@GCC_4.6.0.

%exclude {
  __addtf3
  __copysigntf3
  __divtc3
  __divtf3
  __eqtf2
  __extendltf2
  __extendsftf2
  __extrxf2
  __fabsf2
  __fixtfdi
  __fixtfsi
GCC_4.6.0 {  

__fixtfti  
__fixunstfdi  
__fixunstfsi  
__fixunstfti  
__floatditf  
__floatsitf  
__floattitf  
__floatunditf  
__floatunsitf  
__floatuntitf  
__getf2  
__gttf2  
__letf2  
__ltf2  
__multc3  
__multf3  
__negt2  
__netf2  
__powitf2  
__subf3  
__trunctfdf2  
__trunctfsf2  
__trunctfxf2  
__unordtf2  
}  

%ifndef __x86_64__  
__copysignf3  
%endif  
__divtc3  
__divtf3  
__eqtf2  
__extenddftf2  
__extendsftf2  
__extendxtftf2  
%ifndef __x86_64__  
__fabstf2  
%endif  
__fxtfdi  
__fxtfsi  
%ifndef __x86_64__  
__fxtfti  
%endif  
__fixunstfdi  
__fixunstfsi  
%ifndef __x86_64__  

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

That's all there is to it!
GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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@appendixsubsec Preamble

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We call this license the *Lesser* General Public License because it
does @emph{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.

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@end enumerate

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@heading END OF TERMS AND CONDITIONS
@end iftex
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@center END OF TERMS AND CONDITIONS
@end ifinfo

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

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

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

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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:

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* DNS resolver (dirmngr/dns.c)
dns.c - Recursive, Reentrant DNS Resolver.

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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.

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.

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Mersenne Twister
----------------

The `_random' module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html'. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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Modified by Jack Jansen, CWI, July 1995:
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- Arguments more compliant with python standard

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-------------------------------

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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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 Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.


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Version 3, 29 June 2007

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1.1841 perl-podlators 4.11-1.el8

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1.1844 libtirpc 1.1.4-4.el8

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1.1847 lshw 02.18 0.1ubuntu6.18.04.2

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1.1858 libssh 0.9.4-2.el8
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The End
1.1860 libasan4 7.5.0 3ubuntu1~18.04
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1.1861 calico-pod2daemon-flexvol 3.16.1

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1.1868 logr 0.4.0

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### 1.1877 libcurl 7.58.0 2ubuntu3.14

**1.1877.1 Available under license:**

License Mixing

---

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html) licensed code is not allowed to be linked with code licensed under the [Original BSD license](https://spdx.org/licenses/BSD-4-Clause.html) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs). This particular problem was addressed when the [Modified BSD license](https://opensource.org/licenses/BSD-3-Clause) was created, which does not have the announcement clause that collides with GPL.

## libcurl

Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is very liberal.

## OpenSSL
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### GnuTLS

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### WolfSSL

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### libressl
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## c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

## zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

## MIT Kerberos

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

## Heimdal

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## GNU GSS

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## OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

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(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.
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* configure.ac, Makefile.am: The original versions were derived from the
ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.
Author: Julio Merino <jmmv84@gmail.com>

vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

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<!-- $Id$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
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</xsl:variable>

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1.1889 pam 1.3.1-11.el8

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1.1891 humanize-ms 1.2.1

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1.1892 curl 7.64.0 4+deb10u1

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================

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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.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever
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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.

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package spec

// License information for the exposed API.

//
// For more information: http://goo.gl/8us55as_licenseObject
type License struct {
    Name string `json:"name,omitempty"`  
    URL  string `json:"url,omitempty"`
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// Notice is a migration warning

type Notice struct {
    Plugin     string
    Option     string
    Severity   string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version    string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf("Plugin ", n.Plugin)
    } else {
        s += fmt.Sprintf("Option ", n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(" It is replaced by ", n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}
The following statuses are used to indicate the state of support/deprecation in a given release.

- `deprecated` = "deprecated" // deprecated, but still completely functional
- `ignored` = "ignored" // if included in the corefile, it will be ignored by CoreDNS
- `removed` = "removed" // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the corefile
- `newdefault` = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
- `unsupported` = "unsupported" // the plugin/option is not supported by the migration tool

The following statuses are used for selecting/filtering notifications

- `all` = "all" // show all statuses

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- Copy files to and from Containers in a cluster

# Copying Container Files
## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

{% panel style="warning", title="Install Tar" %}
Copy requires that *tar* be installed in the container image.
{% endpanel %}

{% method %}

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

{% sample lang="yaml" %}
```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```
{% endmethod %}

{% method %}

## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `'<path>'`
- Remote file format is `<pod-name>:<path>`

{% sample lang="yaml" %}
```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```
{% endmethod %}

{% method %}

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `\-c <container-name>`
```bash
the following command:
```
```bash
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>/`.
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tomb - support for clean goroutine termination in Go.

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package simulator

import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name:      "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        
}
Key: "feature",
Value: types.KeyValue{
    Key: "serialuri:2",
    Value: "Remote virtual Serial Port Concentrator",
},
},
{
    Key: "feature",
    Value: types.KeyValue{
        Key: "dvs",
        Value: "vSphere Distributed Switch",
    },
},
},
},
}

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self: ref,
        Licenses: []types.LicenseManagerLicenseInfo{EvalLicense}
    }

    if Map.IsVPXi() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }

    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{

    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:   req.Labels,
    })
body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

return body

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...])
            return body
        }
    }

    return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{

    for i := range m.Licenses {
        license := &m.Licenses[i]

        if req.LicenseKey != license.LicenseKey {
            continue
        }

        body.Res = new(types.UpdateLicenseLabelResponse)

        for j := range license.Labels {
            label := &license.Labels[j]

            if label.Key == req.LabelKey {
                if req.LabelValue == "" {
                    license.Labels = append(license.Labels[:i], license.Labels[i+1:...])
                } else {
                    label.Value = req.LabelValue
                }
                return body
            }
        }

        license.Labels = append(license.Labels, types.KeyValue{
            Key:   req.LabelKey,
func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault
{
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{ }
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        { 
            EntityId: req.EntityId,
            AssignedLicense: EvalLicense,
        },
    }

    return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key

info.Labels = labels

return info
}
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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=head1 NAME
MIME::QuotedPrint - Encoding and decoding of quoted-printable strings

=head1 SYNOPSIS

use MIME::QuotedPrint;

$encoded = encode_qp($decoded);
$decoded = decode_qp($encoded);

=head1 DESCRIPTION

This module provides functions to encode and decode strings into and from the quoted-printable encoding specified in RFC 2045 - I<MIME (Multipurpose Internet Mail Extensions)>. The quoted-printable encoding is intended to represent data that largely consists of bytes that correspond to printable characters in the ASCII character set. Each non-printable character (as defined by English Americans) is represented by a triplet consisting of the character "=" followed by two hexadecimal digits.

The following functions are provided:

=over 4
=item encode_qp( $str)
=item encode_qp( $str, $eol)
=item encode_qp( $str, $eol, $binmode )
=under

This function returns an encoded version of the string ($str) given as argument.

The second argument ($eol) is the line-ending sequence to use. It is optional and defaults to "\n". Every occurrence of "\n" is replaced with this string, and it is also used for additional "soft line breaks" to ensure that no line end up longer than 76 characters. Pass it as "\015\012" to produce data suitable for external consumption. The string "\r\n" produces the same result on many platforms, but not all.

The third argument ($binmode) will select binary mode if passed as a TRUE value. In binary mode "\n" will be encoded in the same way as any other non-printable character. This ensures that a decoder will end up with exactly the same string whatever line ending sequence it uses. In general it is preferable to use the base64 encoding for binary data; see L<MIME::Base64>.
An `$eol` of "" (the empty string) is special. In this case, no "soft line breaks" are introduced and binary mode is effectively enabled so that any "\n" in the original data is encoded as well.

```perl
=item decode_qp( $str )
```

This function returns the plain text version of the string given as argument. The lines of the result are "\n" terminated, even if the $str argument contains "\r\n" terminated lines.

=back

If you prefer not to import these routines into your namespace, you can call them as:

```perl
use MIME::QuotedPrint ();
$encoded = MIME::QuotedPrint::encode($decoded);
$decoded = MIME::QuotedPrint::decode($encoded);
```

Perl v5.8 and better allow extended Unicode characters in strings. Such strings cannot be encoded directly, as the quoted-printable encoding is only defined for single-byte characters. The solution is to use the Encode module to select the byte encoding you want. For example:

```perl
use MIME::QuotedPrint qw(encode_qp);
use Encode qw(encode);

$encoded = encode_qp(encode("UTF-8", "\x{FFFF}\n"));
print $encoded;
```

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=head1 SEE ALSO

L<MIME::Base64>

=cut

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abstract: 'The RFC 2045 encodings; base64 and quoted-printable'

author:
  - 'Gisle Aas <gisle@activestate.com>'

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configure_requires:
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dynamic_config: 1

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meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html

version: 1.4

name: MIME-Base64
This package contains a base64 encoder/decoder and a quoted-printable encoder/decoder. These encoding methods are specified in RFC 2045 - MIME (Multipurpose Internet Mail Extensions).

The base64 encoding is designed to represent arbitrary sequences of octets in a form that need not be humanly readable. A 65-character subset ([A-Za-z0-9+/=]) of US-ASCII is used, enabling 6 bits to be represented per printable character.

The quoted-printable encoding is intended to represent data that largely consists of bytes that correspond to printable characters in the ASCII character set. Each non-printable character is represented by a triplet consisting of the character "=" followed by two hexadecimal digits.

In order to install and use this package you will need Perl version 5.6 or better. Installation as usual:

perl Makefile.PL
make
make test
make install

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=head1 NAME

MIME::Base64 - Encoding and decoding of base64 strings

=head1 SYNOPSIS

use MIME::Base64;

$encoded = encode_base64('Aladdin:open sesame');
$decoded = decode_base64($encoded);

=head1 DESCRIPTION

This module provides functions to encode and decode strings into and from the base64 encoding specified in RFC 2045 - I<MIME (Multipurpose Internet Mail Extensions)>. The base64 encoding is designed to represent arbitrary sequences of octets in a form that need not be humanly readable. A 65-character subset ([A-Za-z0-9+/=]) of US-ASCII is used, enabling 6 bits to be represented per printable character.

The following primary functions are provided:

=over 4

=item encode_base64( $bytes )

=item encode_base64( $bytes, $eol );

Encode data by calling the encode_base64() function. The first argument is the byte string to encode. The second argument is the line-ending sequence to use. It is optional and defaults to "\n". The returned encoded string is broken into lines of no more than 76 characters each and it will end with $eol unless it is empty. Pass an empty string as second argument if you do not want the encoded string to be broken into lines.

The function will croak with "Wide character in subroutine entry" if $bytes contains characters with code above 255. The base64 encoding is only defined for single-byte characters. Use the Encode module to select the byte encoding you want.

=item decode_base64( $str )

Decode a base64 string by calling the decode_base64() function. This function takes a single argument which is the string to decode and returns the decoded data.
Any character not part of the 65-character base64 subset is silently ignored. Characters occurring after a '=' padding character are never decoded.

If you prefer not to import these routines into your namespace, you can call them as:

```perl
use MIME::Base64 ();
$encoded = MIME::Base64::encode($decoded);
$decoded = MIME::Base64::decode($encoded);
```

Additional functions not exported by default:

=over 4
=item encode_base64url( $bytes )
=item decode_base64url( $str )
==back

Encode and decode according to the base64 scheme for "URL applications" [1]. This is a variant of the base64 encoding which does not use padding, does not break the string into multiple lines and use the characters "-" and "_" instead of "+" and "/" to avoid using reserved URL characters.

=item encoded_base64_length( $bytes )
=item encoded_base64_length( $bytes, $eol )

Returns the length that the encoded string would have without actually encoding it. This will return the same value as `length(encode_base64($bytes))` but should be more efficient.

=item decoded_base64_length( $str )

Returns the length that the decoded string would have without actually decoding it. This will return the same value as `length(decode_base64($str))` but should be more efficient.

=back

=head1 EXAMPLES

If you want to encode a large file, you should encode it in chunks that are a multiple of 57 bytes. This ensures that the base64 lines line up and that you do not end up with padding in the middle.
bytes of data fills one complete base64 line ($76 == 57*4/3):

use MIME::Base64 qw(encode_base64);

open(FILE, "/var/log/wtmp") or die "$!";
while (read(FILE, $buf, 60*57)) {
    print encode_base64($buf);
}

or if you know you have enough memory

use MIME::Base64 qw(encode_base64);
local($) = undef;  # slurp
print encode_base64(<STDIN>);

The same approach as a command line:

perl -MMIME::Base64 -0777 -ne 'print encode_base64($_)' <file

Decoding does not need slurp mode if every line contains a multiple of four base64 chars:

perl -MMIME::Base64 -ne 'print decode_base64($_)' <file

Perl v5.8 and better allow extended Unicode characters in strings. Such strings cannot be encoded directly, as the base64 encoding is only defined for single-byte characters. The solution is to use the Encode module to select the byte encoding you want. For example:

use MIME::Base64 qw(encode_base64);
use Encode qw(encode);

$encoded = encode_base64(encode("UTF-8", "x{FFFF}\n"));
print $encoded;

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Distantly based on LWP::Base64 written by Martijn Koster <m.koster@nexor.co.uk> and Joerg Reichelt <j.reichelt@nexor.co.uk> and code posted to comp.lang.perl 3pd2lp$6gf@wsinti07.win.tue.nl by Hans Mulder <hansm@wsinti07.win.tue.nl>
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=\texttt{SEE ALSO}

L\texttt{<MIME::QuotedPrint>}

[1] L\texttt{<http://en.wikipedia.org/wiki/Base64#URL_applications>}

=cut

Found in path(s):
* /opt/cola/permits/1185063309_1627672329.9/0/perl-MIME-Base64-3.15-396.el8-1.src.rpm-cosi-expand-archive-PW\texttt{Ay0jbm/MIME-Base64-3.15.tar.gz-cosi-expand-archive-jy\texttt{Oc4xiM/MIME-Base64-3.15/Base64.pm}

\textbf{1.1898 \texttt{structured-merge-diff 4.0.1}}

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1.1901 man-db 2.8.3 2ubuntu0.1

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1.1921 libcom-err 1.44.1 1ubuntu1.3

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

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@

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
 -
 - Copyright (C) Andrew Tridgell 2005
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#
# 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)
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Theodore Ts'o
23-June-2007

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Gadi Oxman, August 1995

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That's all there is to it!
1.1924 python3-certifi 2018.1.18 2

1.1924.1 Available under license:

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

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

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
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:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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*/

Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
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'io
23-June-2007

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
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That's all there is to it!
This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

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

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DAMAGE.
This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

From the original distribution:

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#
# 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)

This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Gadi Oxman, August 1995

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That's all there is to it!
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hostname -- set the host name or show the host/domain name

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1.1930 githubcomgolangprotobuf 1.3.2

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.1956 github.com/kubernetes-csi/external-attacher 3.2.1

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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 Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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abstract: 'alternative warn and die for modules'
author:
- unknown
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.1, CPAN::Meta::Converter version 2.150005'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Carp
no_index:
directory:
=head1 NAME

Carp - alternative warn and die for modules

=head1 SYNOPSIS

use Carp;

    # warn user (from perspective of caller)
    carp "string trimmed to 80 chars";

    # die of errors (from perspective of caller)
    croak "We're outta here!";

    # die of errors with stack backtrace
    confess "not implemented";

    # cluck, longmess and shortmess not exported by default
    use Carp qw(cluck longmess shortmess);
    cluck "This is how we got here!";
    $long_message   = longmess( "message from cluck() or confess()" );
    $short_message  = shortmess( "message from carp() or croak()" );

=head1 DESCRIPTION

The Carp routines are useful in your own modules because they act like C<die()> or C<warn()>, but with a message which is more likely to be useful to a user of your module. In the case of C<cluck()> and C<confess()>, that context is a summary of every
call in the call-stack; $longmess()$ returns the contents of the error message.

For a shorter message you can use $carp()$ or $croak()$ which report the error as being from where your module was called. $shortmess()$ returns the contents of this error message. There is no guarantee that that is where the error was, but it is a good educated guess.

$Carp$ takes care not to clobber the status variables $%!$ and $^E$ in the course of assembling its error messages. This means that a $SIG{__DIE__}$ or $SIG{__WARN__}$ handler can capture the error information held in those variables, if it is required to augment the error message, and if the code calling $Carp$ left useful values there. Of course, $Carp$ can't guarantee the latter.

You can also alter the way the output and logic of $Carp$ works, by changing some global variables in the $Carp$ namespace. See the section on $GLOBAL VARIABLES$ below.

Here is a more complete description of how $carp$ and $croak$ work. What they do is search the call-stack for a function call stack where they have not been told that there shouldn't be an error. If every call is marked safe, they give up and give a full stack backtrace instead. In other words they presume that the first likely looking potential suspect is guilty. Their rules for telling whether a call shouldn't generate errors work as follows:

=over 4
=item 1.

Any call from a package to itself is safe.

=item 2.

Packages claim that there won't be errors on calls to or from packages explicitly marked as safe by inclusion in $@CARP_NOT$, or (if that array is empty) $@ISA$. The ability to override what $ISA$ says is new in 5.8.

=item 3.

The trust in item 2 is transitive. If A trusts B, and B trusts C, then A trusts C. So if you do not override $ISA$ with $@CARP_NOT$, then this trust relationship is identical to, "inherits from".

=item 4.
Any call from an internal Perl module is safe. (Nothing keeps user modules from marking themselves as internal to Perl, but this practice is discouraged.)

=item 5.

Any call to Perl's warning system (eg Carp itself) is safe. (This rule is what keeps it from reporting the error at the point where you call C<carp> or C<croak>.)

=item 6.

C<$Carp::CarpLevel> can be set to skip a fixed number of additional call levels. Using this is not recommended because it is very difficult to get it to behave correctly.

=back

=head2 Forcing a Stack Trace

As a debugging aid, you can force Carp to treat a croak as a confess and a carp as a cluck across I<all> modules. In other words, force a detailed stack trace to be given. This can be very helpful when trying to understand why, or from where, a warning or error is being generated.

This feature is enabled by 'importing' the non-existent symbol 'verbose'. You would typically enable it by saying

perl -MCarp=verbose script.pl

or by including the string C<-MCarp=verbose> in the PERL5OPT environment variable.

Alternately, you can set the global variable C<$Carp::Verbose> to true. See the C<GLOBAL VARIABLES> section below.

=head2 Stack Trace formatting

At each stack level, the subroutine's name is displayed along with its parameters. For simple scalars, this is sufficient. For complex data types, such as objects and other references, this can simply display C<HASH(0x1ab36d8)>.

Carp gives two ways to control this.

=over 4
=item 1.

For objects, a method, `C<CARP_TRACE>`, will be called, if it exists. If this method doesn't exist, or it recurses into `C<Carp>`, or it otherwise throws an exception, this is skipped, and Carp moves on to the next option, otherwise checking stops and the string returned is used. It is recommended that the object's type is part of the string to make debugging easier.

=item 2.

For any type of reference, `C<$Carp::RefArgFormatter>` is checked (see below). This variable is expected to be a code reference, and the current parameter is passed in. If this function doesn't exist (the variable is undef), or it recurses into `C<Carp>`, or it otherwise throws an exception, this is skipped, and Carp moves on to the next option, otherwise checking stops and the string returned is used.

=item 3.

Otherwise, if neither `C<CARP_TRACE>` nor `C<$Carp::RefArgFormatter>` is available, stringify the value ignoring any overloading.

=back

=head1 GLOBAL VARIABLES

=head2 $Carp::MaxEvalLen

This variable determines how many characters of a string-eval are to be shown in the output. Use a value of `C<0>` to show all text.

Defaults to `C<0>`.

=head2 $Carp::MaxArgLen

This variable determines how many characters of each argument to a function to print. Use a value of `C<0>` to show the full length of the argument.

Defaults to `C<64>`.

=head2 $Carp::MaxArgNums

This variable determines how many arguments to each function to show. Use a false value to show all arguments to a function call. To suppress all arguments, use `C<-1>` or `C<0 but true>`.

Defaults to `C<8>`.
=head2 $Carp::Verbose

This variable makes C<carp()> and C<croak()> generate stack backtraces just like C<cluck()> and C<confess()>. This is how C<use Carp 'verbose'> is implemented internally.

Defaults to C<0>.

=head2 $Carp::RefArgFormatter

This variable sets a general argument formatter to display references. Plain scalars and objects that implement C<CARP_TRACE> will not go through this formatter. Calling C<Carp> from within this function is not supported.

local $Carp::RefArgFormatter = sub {
  require Data::Dumper;
  Data::Dumper::Dump($_[0]); # not necessarily safe
};

=head2 @CARP_NOT

This variable, I<in your package>, says which packages are I<not> to be considered as the location of an error. The C<carp()> and C<cluck()> functions will skip over callers when reporting where an error occurred.

NB: This variable must be in the package's symbol table, thus:

  # These work
  our @CARP_NOT; # file scope
  use vars qw(@CARP_NOT); # package scope
  @My::Package::CARP_NOT = ... ; # explicit package variable

  # These don't work
  sub xyz { ... @CARP_NOT = ... } # w/o declarations above
  my @CARP_NOT; # even at top-level

Example of use:

  package My::Carping::Package;
  use Carp;
  our @CARP_NOT;
  sub bar { ... or _error('Wrong input') }
  sub _error {
    # temporary control of where'ness, __PACKAGE__ is implicit
    local @CARP_NOT = qw(My::Friendly::Caller);
    carp(@_)
  }
This would make `C<Carp> report the error as coming from a caller not in `C<My::Carping::Package>, nor from `C<My::Friendly::Caller>.

Also read the `DESCRIPTION section above, about how `C<Carp> decides where the error is reported from.

Use `C<@CARP_NOT>, instead of `C<$Carp::CarpLevel>.

Overrides `C<Carp>'s use of `C<@ISA>.

=head2 %Carp::Internal

This says what packages are internal to Perl. `C<Carp> will never report an error as being from a line in a package that is internal to Perl. For example:

```
$Carp::Internal{ (__PACKAGE__) }++;  
# time passes...  
sub foo { ... or confess("whatever") };
```

would give a full stack backtrace starting from the first caller outside of __PACKAGE__. (Unless that package was also internal to Perl.)

=head2 %Carp::CarpInternal

This says which packages are internal to Perl's warning system. For generating a full stack backtrace this is the same as being internal to Perl, the stack backtrace will not start inside packages that are listed in `C<%Carp::CarpInternal>. But it is slightly different for the summary message generated by `C<carp> or `C<croak>. There errors will not be reported on any lines that are calling packages in `C<%Carp::CarpInternal>.

For example `C<Carp> itself is listed in `C<%Carp::CarpInternal>. Therefore the full stack backtrace from `C<confess> will not start inside of `C<Carp>, and the short message from calling `C<croak> is not placed on the line where `C<croak> was called.

=head2 $Carp::CarpLevel

This variable determines how many additional call frames are to be skipped that would not otherwise be when reporting where an error occurred on a call to one of `C<Carp>'s functions. It is fairly easy to count these call frames on calls that generate a full stack backtrace. However it is much harder to do this accounting for calls that generate a short message. Usually people skip too many call
frames. If they are lucky they skip enough that Carp goes all of the way through the call stack, realizes that something is wrong, and then generates a full stack backtrace. If they are unlucky then the error is reported from somewhere misleading very high in the call stack.

Therefore it is best to avoid Carp::CarpLevel. Instead use Carp::CarpLevel, Carp::CarpInternal and Carp::CarpInternal.

Defaults to 0.

=head1 BUGS

The Carp routines don't handle exception objects currently. If called with a first argument that is a reference, they simply call die() or warn(), as appropriate.

=head1 SEE ALSO

L<Carp::Always>, L<Carp::Clan>

=head1 AUTHOR

The Carp module first appeared in Larry Wall's perl 5.000 distribution. Since then it has been modified by several of the perl 5 porters. Andrew Main (Zefram) <zefram@fysh.org> divested Carp into an independent distribution.

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Carp - alternative warn and die for modules
DESCRIPTION

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that context is a summary of every call in the call-stack. For a shorter
message you can use carp or croak which report the error as being from
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You can also alter the way the output and logic of Carp works, by changing
some global variables in the Carp namespace.

INSTALLATION

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make test
make install

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1.1960 promise-retry 1.1.1
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* configure.ac, Makefile.am: The original versions were derived from the
  ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were
  derived form the ones in the Monotone project, revision
  3a0982da308228d796ddf35f98d787c5cfd2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
  These files were derived from the file_handle, systembuf, pipe and pistream
  classes and tests found in the Boost.Process library.

  Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
  admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
  except the first one, were first implemented in the Buildtool project.
  They were later adapted to be part of Boost.Process and, during that
  process, the shell script was created.

  Author: Julio Merino <jmmv84@gmail.com>
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1.1964 shebang-command 2.0.0
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1.1966 auditd 1:2.8.2 1ubuntu1.1

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* erikcederstrand <http://code.google.com/u/erikcederstrand/>
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  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

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  * Better unicode support for filepost using StringIO buffers

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* Support for TLS SNI
* API unification of ssl_version/cert_reqs
* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

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* Marc Schlaich <marc.schlaich@gmail.com>
* Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
* Correct six.moves conflict
* Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
* Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
* Stream method for Response objects.
* Return native strings in header values.
* Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
* Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
* Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
* Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
* Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
* Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes
* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter
* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in ``stream`` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
* Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.wolfgang@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix `util.selectors._fileobj_to_fd` to accept `long`
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jesse Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to `contrib.securetransport`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add `HTTPResponse.geturl` method to provide `urlib2.urlopen().geturl()` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  * Remove Authorization header regardless of case when redirecting to cross-site

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]
1.1969 boost-date-time 1.66.0-10.el8

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This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D. Carlstrom (bde@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks (age@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
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The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`. 

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////

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///

[#mpl]

# MPL Support, `<boost/mp11/mpl.hpp>`

toc:

toc-title:

idprefix:

The header ` `<boost/mp11/mpl.hpp>``, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../../../libs/mpl[MPL] sequences.

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///

[#mpl]

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[#mpl]

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NOTE: `mpl.hpp` is not included by ` `<boost/mp11.hpp>``. 

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///

[#mpl]

# MPL Support, `<boost/mp11/mpl.hpp>`

toc:

toc-title:

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The header ` `<boost/mp11/mpl.hpp>``, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by ` `<boost/mp11.hpp>``. 

--- end ---
1.1970 python3-json-pointer 1.10 1

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Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
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1.1977 types-yargs-parser 20.2.1
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1.1978 libpam-runtime 1.3.1 5

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 *
 * Authors:
 * Steve Grubb <sgrubb@redhat.com>
 *
 * PAM module that sets the login uid introduced in kernel 2.6.11
 */

1.1979 lodash-es 4.17.21

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1.1980 vim-common 2:8.0.1453 1ubuntu1.4

1.1981 libkcrypto 1.17 3+deb10u2

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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
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lib/gssapi/mechglue/g_dup_name.c
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lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.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
slave/kpropd_rpc.c
slave/kproplg.c
```

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1.1989 log-rotate 3.11.0 0.1ubuntu1

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1.1990 linux-image-virtual 4.15.0.156.145

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1.1994 log-rotate 3.14.0-4.el8

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Date: Fri, 6 Jun 2003 10:18:52 -0700
From: Juan Gomez <juang@us.ibm.com>
To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

Stephen,

"There is no restriction on modifications and derived works" on the work I
did for the openldap server as long as this is consistent with the openldap
license. Please forward this email to Kurt so he does the appropriate
changes to the files to reflect this.
Regards, Juan

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MA
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Local-Date: Thu, 05 Jun 2003 16:53:32 -0400
Date: Thu, 5 Jun 2003 16:53:32 -0400 (EDT)
From: Mark Adamson <adamson@andrew.cmu.edu>
To: Stephen Frost <sfrost@debian.org>
Subject: Re: Mark Adamson license in OpenLDAP source

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Regards, Kurt

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1.2004 bsdmainutils 11.1.2ubuntu1

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Then the package has been maintained by Charles Briscoe-Smith <cpbs@debian.org>. I gathered data for the 1999-2001 calendar files from various sources on the Internet, and I'd also like to thank Oliver Elphick, Julian Gilbey, Daniel Martin and Jaldhar H. Vyas for providing much useful data on the various religious calendars. I have edited the files they provided to fit calendar's requirements, so any errors should be attributed to me.

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1.2005 libmpc 1.1.0 1
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1.2007 libss 1.44.1 1ubuntu1.3

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

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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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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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# 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)

This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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The most recent officially distributed version can be found at http://e2fsprogs.sourceforge.net. If you need to make a distribution, that's the one you should use. If there is some reason why you'd like a more recent version that is still in ALPHA testing (i.e., either using the "WIP" test distributions or one from the hg or git repository from the development branch, please contact me (tytso@mit.edu) before you ship. The release schedules for this package are flexible, if you give me enough lead time.

Theodore Ts'o
23-June-2007

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Gadi Oxman, August 1995

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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name\nurl: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertSerializeYAML(t, license, licenseYAML)
    assertParsesJSON(t, licenseJSON, license)
    assertParsesYAML(t, licenseYAML, license)
}
```
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go

package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"
}

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1.2033 apollo-protobufjs 1.2.2

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1.2036 google-golang-org-genproto 0.0.0-20210317182105-75c7a8546eb9

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,

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the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
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Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ss.dsd.lan.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
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The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

1.2050 golang-org-x-net 0.0.0-20200707034311-ab3426394381

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1.2052 usbutils 1:007 4build1

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c8f2bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

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* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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1.2058 procps 3.3.15-3.el8
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DRuntime: Runtime Library for the D Programming Language

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Developed by:

LLVM Team

University of Illinois at Urbana-Champaign

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++++++++++++++++

Dean Elsner wrote the original gas for vax.  [more details?]  

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS
back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.
Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the 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 a program 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.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

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

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

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License
Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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

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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.

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

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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.

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

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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:

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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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Appendix: How to Apply These Terms to Your New Libraries

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<signature of Ty Coon>, 1 April 1990
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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.

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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.

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

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stating that you changed the files and the date of any change.

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

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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.

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whether or not they are linked directly with the Library itself.

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b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
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will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
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This package was put together by Matthias Klose <doko@debian.org>.

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Author: Per Bothner

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This package was put together by Matthias Klose <doko@debian.org>, derived
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ftp.gnu.org:/pub/gnu/readline/readline-6.0.tar.gz.

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lib/gss_mechs/mech_spnego/mach/gssapiP_spnego.h
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lib/gssapi/mechglue/g_dsp_status.c
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lib/gssapi/mechglue/g_inquire_names.c
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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
and the initial implementation of incremental propagation, including
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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
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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_glu.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
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
slave/kpropd_rpc.c
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1.2090 is-boolean-object 1.1.2
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1.2092 validate-npm-package-license 3.0.4
Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript
var assert = require('assert');
var validSPDXExpression = {
validForNewPackages: true,
validForOldPackages: true,
spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```

The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
valid('Apache 2.0'),
{
validForOldPackages: false,
validForNewPackages: false,
warnings: [
'license should be ' +
'a valid SPDX license expression (without "LicenseRef"), ' +
""UNLICENSED", or ' +
""SEE LICENSE IN <filename>"",
'license is similar to the valid expression "Apache-2.0"
]
}
);
```

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
    valid('GPL-3.0-only OR BSD-2-Clause'),
    validSPDXExpression
);
```
... except if they contain `LicenseRef`:
```
```javascript
var warningAboutLicenseRef = {
    validForOldPackages: false,
    validForNewPackages: false,
    spdx: true,
    warnings: [
        'license should be ' +
        'a valid SPDX license expression (without "LicenseRef"), ' +
        '"UNLICENSED", or ' +
        '"SEE LICENSE IN <filename>"',
    ]
};

assert.deepEqual(
    valid('LicenseRef-Made-Up'),
    warningAboutLicenseRef
);

assert.deepEqual(
    valid('(MIT OR LicenseRef-Made-Up)'),
    warningAboutLicenseRef
);
```
```
If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package
and point users there:
```
```javascript
assert.deepEqual(
    valid('SEE LICENSE IN LICENSE.txt'),
    {
        validForNewPackages: true,
        validForOldPackages: true,
        inFile: 'LICENSE.txt'
    }
)
```

assert.deepEqual(
    valid('SEE LICENSE IN license.md'),

If there aren't any licensing terms, use `UNLICENSED`: 

```javascript
var unlicensed = {
  validForNewPackages: true,
  validForOldPackages: true,
  unlicensed: true
};

assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
``` 

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1.2093 media-typer 0.3.0
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1.2094 libfreetype 2.8.1 2ubuntu2.1

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1.2116 es-abstract 1.18.3

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1.2117 glibc 2.28-127.el8_3.2

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

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

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

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

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

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

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

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

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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

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e) Verify that the user has already received a copy of these

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which the executable runs, unless that component itself accompanies

the executable.

It may happen that this requirement contradicts the license

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accompany the operating system. Such a contradiction means you cannot

use both them and the Library together in an executable that you

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a) Accompany the combined library with a copy of the same work

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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TERMS AND CONDITIONS

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To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based
on the Program.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

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The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's
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You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party)
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e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mec_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
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
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
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lib/libgss/g_init_sec_context.c
lib/libgss/g_initialze.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
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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
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
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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1.2138 is-weakmap 2.0.1
1.2138.1 Available under license :
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1.2139 cracklib-runtime 2.9.6 2

1.2139.1 Available under license:

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: cracklib
Upstream-Contact: Nathan Neulinger <nneul@umr.edu>
Source: https://github.com/cracklib/cracklib

Files: *
Copyright: 1993 Alec Muffett <alecm@crypto.dircon.co.uk>
    2005-2015 Nathan Neulinger <nneul@umr.edu>
    2008-2015 Jan Dittberner <jan@dittberner.info>
License: LGPL-2.1
Comment:
Starting from version 2.8.15 released on 2009-11-19 cracklib is licensed under the terms of the LGPL 2.1. For a detailed discussion and history see README-LICENSE.

Files: debian/*
Copyright: 1998 Jean Pierre LeJacq
    Martin Pitt <martin@piware.de>
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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-----------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.

-- Nathan

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not
GPL-2 ... it was a modified artistic license ... i didn't notice the license change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which IMO is just wrong. It isn't the place of a library to dictate to application writes what license they should be using. Thus LGPL-2.1 enters to fill this void.

-Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme you all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing you all come up with is fine by me.

-- Nathan

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li... [mailto:cracklib-devel-bounces@li...]
> On Behalf Of Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > > I understand that, and you're welcome to bring it up with Alec
directly
> > > and see if he wants to relicense his code as LGPL... but at this
> > point,
> > > it was enough to just get it consistent and documented as to what
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> > > released under. This wasn't actually a license change, just a
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> > >
the original license (before moving to sourceforge -- aka, 2.7) was not GPL-2 ... it was a modified artistic license ... i didn't notice the license change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which imo is just wrong. it isn't the place of a library to dictate to application writes what license they should be using. thus LGPL-2.1 enters to fill this void.

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin
--
If it's sinful, it's more fun.
Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> > > I am sympathetic. Guys, what do you reckon?
> > > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > > Seems like the ideal thing here would be for you and the other distro
> > > > maintainers to get together with Alec in a conversation and come to a
> > > > decision as to what licensing scheme y'all want. I haven't really done
> > > > much other than cleaning up the packaging and patches and a small
> > > > bit of
> > > > additional code, so whatever licensing y'all come up with is fine
> > > > by me.
> > > >
I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:

>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike
CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
  by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
  by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxptr020623
  for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
  by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
  for <nneul@neulinger.org>; Mon,  1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
  by rutherford.zen.co.uk with esmtp (Exim 4.50)
  id 1IcOcX-0004Qt-6L
  for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
  <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
  <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEB6E9F@crypticide.com>
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.2140 libgpm 1.20.7 5
1.2140.1 Available under license :

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: gpm - general purpose mouse
Upstream-Contact: gpm@lists.linux.it
Source: https://nico.schottelius.org/software/gpm/archives/

Files: *
Copyright: 1993 Andrew Haylett <ajh@gec-mrc.co.uk>
1994-2000 Alessandro Rubini <rubini@linux.it>
1998-1999 Ian Zimmerman <itz@rahul.net>
2001-2012 Nico Schottelius <nico@schottelius.org>
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Files: debian/*
Copyright: 1996-1997 Martin Schulze <joey@debian.org>
  1997-1999 James Troup <james@nocrew.org>
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  1999-2002 Zephaniah E. Hull <warp@debian.org>
  2004-2008 Guillem Jover <guillem@debian.org>
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License: GPL-2.0+
Comment: It is assumed that the packaging is licensed under the same
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Files: debian/gpm-microtouch-setup.8
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1.2141 python-chardet 3.0.4 1
1.2141.1 Available under license :

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Version 2.1, February 1999

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1.2142 is-npm 1.0.0

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1.2144 mux 1.7.3

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cpan/Locale-Maketext-Simple/t/po_with_i_default/fr.po
cpan/Locale-Maketext-Simple/t/po_with_i_default/en.po
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cpan/Tie-RefHash/*
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dist/ExtUtils-Install/*
dist/Math-BigInt/*
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dist/Devel-SelfStubber/*
dist/Dumpvalue/*
dist/Env/*
dist/ExtUtils-Command/*
dist/ExtUtils-Manifest/*
dist/I18N-Collate/*
dist/Safe/*
ext/Fcntl/*
ext/FileCache/*
ext/GDBM_File/*
ext/IPC-Open2/*
ext/IPC-Open3/*
ext/NDBM_File/*
ext/ODBM_File/*
ext/Opcode/*
ext/PerlIO-encoding/*
ext/PerlIO-scalar/*
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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at Sun, 15 Oct 2017 13:07:36 +0300.

1.2188 libx11 2:1.6.7 1
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--- libx11-1.6.7.org/ChangeLog
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@@ -1,60 +1,3 @@
-commit f3e978476e0be6813268af494efb7ac507451116
-Author: Matt Turner <mattst88@gmail.com>
>Date:   Tue Oct 9 10:26:05 2018 -0400
-
-average: 1.6.7
-
-Signed-off-by: Matt Turner <mattst88@gmail.com>
-
-commit 823a0f8a820247b6c1e092f679b49cbdc2ea5c95
-Author: Michel Dänzer <michel.daenzer@amd.com>
-Date:   Fri Sep 28 17:24:17 2018 +0200
-
-poll_for_event: Allow using xcb_poll_for_queued_event
-
-It avoids reading from the display connection again in cases where that
-was already done.
-
-Suggested-by: Uli Schlachter <psychon@znc.in>
-Reviewed-by: Uli Schlachter <psychon@znc.in>
-
-commit 406afe4b0f1b655c0db19bba9a0c48da9a46acf5
-Author: Michel Dänzer <michel.daenzer@amd.com>
-Date:   Tue Sep 25 17:10:58 2018 +0200
-
-poll_for_response: Call poll_for_event again if xcb_poll_for_reply fails
-
-If xcb_poll_for_reply fails to find a reply, poll_for_response would
-always return NULL. However, xcb_poll_for_reply may have read events
-from the display connection while looking for a reply. In that case,
-returning NULL from poll_for_response is wrong and can result in the
-client hanging, e.g. because it returns to waiting for the display
-connection file descriptor becoming readable after XPending incorrectly
-retumed 0 pending events.
-
-The solution is to call poll_for_event again after xcb_poll_for_reply
-retumed 0. This will return the first of any events read by
-xcb_poll_for_reply.
-
-Fixes issue #79.
-
-Reported-by: Yuxuan Shui <yshuiv7@gmail.com>
-Bugzilla: https://bugs.freedesktop.org/108008
-Bugzilla: https://bugs.freedesktop.org/107992
-Reviewed-by: Adam Jackson <ajax@redhat.com>
-
-commit d0416863d5bf75af54ce81f6c30d4c1476b5e04f
-Author: Bhavi Dhingra <b.dhingra@samsung.com>
-Date:   Mon Sep 28 08:33:40 2015 +0000
-
- XcmsLookupColor: fully initialize XColor structs passed to _XColor_to_XcmsRGB
- Fixes https://gitlab.freedesktop.org/xorg/lib/libx11/issues/44
- aka https://bugs.freedesktop.org/show_bug.cgi?id=92154
- Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
- Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
- commit 733f64bf5eb3111c1d040b2751bfde9c9df0f89ef
  Author: Matthieu Herrb <matthieu@herrb.eu>
  Date:   Tue Aug 21 16:54:50 2018 +0200
  @ @ -4044,6 +3987,9 @@
  Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
  Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

+Notes:
+  CVE-2013-7439
+
commit 3cdb6c3a1646f670afa03d424ec12ac418181d1e
Author: Quentin Glidic <sardemff7+git@sardemff7.net>
Date:   Tue Jan 15 21:07:17 2013 +0000
--- libx11-1.6.7.orig/autogen.sh
+++ libx11-1.6.7/autogen.sh
@@ -0,0 +1,17 @@
+#! /bin/sh
+
+srcdir=`dirname "$0"`
+test -z "$srcdir" && srcdir=.  
+
+ORIGDIR=`pwd`
+cd "$srcdir"
+
+autoreconf -v --install || exit 1
+cd "SORIGDIR" || exit $?
+
+git config --local --get format.subjectPrefix >/dev/null 2>&1 ||
+  git config --local format.subjectPrefix "PATCH libX11"
+
+if test -z "$NOCONFIGURE"; then
+  exec "$srcdir"/configure "$@"
+fi
--- libx11-1.6.7.orig/debian/README.source
+++ libx11-1.6.7/debian/README.source
@@ -0,0 +1,55 @@
+------------------------------------------------------
+Quick Guide To Patching This Package For The Impatient
+------------------------------------------------------
+
+1. Make sure you have quilt installed
+2. Unpack the package as usual with "dpkg-source -x"
+3. Run the "patch" target in debian/rules
+4. Create a new patch with "quilt new" (see quilt(1))
+5. Edit all the files you want to include in the patch with "quilt edit"
  + (see quilt(1)).
+6. Write the patch with "quilt refresh" (see quilt(1))
+7. Run the "clean" target in debian/rules
  +
  +Alternatively, instead of using quilt directly, you can drop the patch in to
debian/patches and add the name of the patch to debian/patches/series.
  +
  +While building from git, dpkg-source can complain about symlinks vs.
+normal files mismatches. To work around this issue, before uploading,
+and without committing:
  +
  +  find -type l | while read dest; do src=$(readlink -f $dest); rm $dest; cp $src $dest; done
  +
------------------------------------
Guide To The X Strike Force Packages
------------------------------------

+The X Strike Force team maintains X packages in git repositories on
git.debian.org in the pkg-xorg subdirectory. Most upstream packages
are actually maintained in git repositories as well, so they often
just need to be pulled into git.debian.org in a "upstream-*" branch.
Otherwise, the upstream sources are manually installed in the Debian
+git repository.
+
+The .orig.tar.gz upstream source file could be generated using this
"upstream-*" branch in the Debian git repository but it is actually
+copied from upstream tarballs directly.
+
+Due to X.org being highly modular, packaging all X.org applications
+as their own independent packages would have created too many Debian
+packages. For this reason, some X.org applications have been grouped
+into larger packages: xutils, xutils-dev, x11-apps, x11-session-utils,
x11-utils, x11-xfs-utils, x11-xkb-utils, x11-xserver-utils.
+Most packages, including the X.org server itself and all libraries
+and drivers are, however maintained independently.
+
+The Debian packaging is added by creating the "debian-*" git branch
+which contains the aforementioned "upstream-*" branch plus the debian/
+repository files.
+When a patch has to be applied to the Debian package, two solutions
+are involved:
  + If the patch is available in one of the upstream branches, it
  + may be git'cherry-picked into the Debian repository. In this
+ case, it appears directly in the .diff.gz.
+ * Otherwise, the patch is added to debian/patches/ which is managed
+ with quilt as documented in /usr/share/doc/quilt/README.source.

--- libx11-1.6.7.orig/debian/changelog
+++ libx11-1.6.7/debian/changelog
@@ -0,0 +1,1002 @@
+libx11 (2:1.6.7-1) unstable; urgency=medium
+
+ * New upstream release.
+ * - fix video freezing in firefox with amdgpu
+ * upstream: Add key from Matt Turner.
+
+ -- Timo Aaltonen <tjaalton@debian.org>  Tue, 09 Oct 2018 18:03:26 +0300
+
+libx11 (2:1.6.6-1) unstable; urgency=medium
+
+ * New upstream release.
+ * Move libx11-doc from Recommends to Suggests (Closes: #648443).
+ * Add debian/README.source
+ * Set source format to 1.0.
+ * Bump standards version to 4.2.0.
+
+ -- Andreas Boll <aboll@debian.org>  Wed, 22 Aug 2018 21:22:31 +0200
+
+libx11 (2:1.6.5-1) unstable; urgency=medium
+
+ * Add Matt Turner's key to d/u/signing-key.asc
+ * New upstream release.
+ * Update VCS metadata for move to salsa.
+
+ -- Julien Cristau <jcristau@debian.org>  Sun, 18 Mar 2018 16:22:50 +0100
+
+libx11 (2:1.6.4-3) unstable; urgency=high
+
+ [ Emilio Pozuelo Monfort ]
+ * debian/libx11-6.symbols: use arch-bits=64 rather than listing all
+ * 64-bits architectures, which is not future-proof.
+
+ [ Julien Cristau ]
+ * Fix two regressions introduced in 2:1.6.4-1:
+ * Fix wrong Xfree in XListFonts failure path
+ * Revert cs_CZ.UTF-8 XLC_LOCALE to en_US.UTF-8 (closes: #847345)
+ * Build-depend on dpkg-dev 1.18.0 for arch-bits support in dpkg-gensymbols.
+
+ -- Julien Cristau <jcristau@debian.org>  Sat, 28 Jan 2017 00:06:50 +0100
+
+libx11 (2:1.6.4-2) unstable; urgency=medium
* Fix arch:all-only build.

* New upstream release.
  - Fixes CVE-2016-7942 and CVE-2016-7943 (Closes: #840439).
  - Bump libxcb1-dev build-dep to 1.11.1 per configure.ac.
  - Update a bunch of URLs in packaging to https.

* Cherry-pick upstream commit 20a3f99 to plug a memory leak in the
  security fix.
* Bump debhelper compat to 10.
* Switch from old debhelper to dh.
* Drop workaround for old tarballs not shipping some files.
* Switch to -dbgsym packages.
* Bump Standards-Version to 3.9.8, no changes.
* Drop libtool and automake build dependencies, debhelper takes
  care of that for us now.

* New upstream release.
  - Drop 006_tailor_pt_BR.UTF-8_Compose.diff, no longer necessary.
  - Rediff 003_recognize_glibc_2.3.2_locale_names.diff.
  - Let uscan verify tarball signatures.

* libx11-6.symbols: yet another 64bit arch (ppc64el). Closes: #749728.

* libx11-6.symbols: yet another 64bit arch (ppc64el). Closes: #749728.

* Drop 006_tailor_pt_BR.UTF-8_Compose.diff, no longer necessary.
* Rediff 003_recognize_glibc_2.3.2_locale_names.diff.
* Let uscan verify tarball signatures.
+ Yet more 64 bit archs in symbols file: mips64{,el} (closes: #722088).
+ Remove Cyril Brulebois from Uploaders.
+ Bump debhelper compat level from 5 to 7.
+ Switch from xsfbs.mk to standard quilt patching.
+ [ Colin Watson ]
+ Declare libx11-xcb-dev Multi-Arch: same (closes: #727231).
+ -- Julien Cristau <jcristau@debian.org> Sun, 11 May 2014 18:04:23 +0200
+ +libx11 (2:1.6.2-1) unstable: urgency=low
+ [ Julien Cristau ]
+ So apparently the 64-bit powerpc port is called ppc64 (closes: #613820).
+ [ Maarten Lankhorst ]
+ New upstream release.
+ -- Maarten Lankhorst <maarten.lankhorst@ubuntu.com> Thu, 03 Oct 2013 09:46:46 +0200
+ +libx11 (2:1.6.1-1) unstable: urgency=low
+ [ Julien Cristau ]
+ New upstream release
+ libx11-6.symbols: add powerpc64 to the list of 64bit archs (closes: #613820)
+ [ Wookey ]
+ Update symbols file for arm64
+ -- Julien Cristau <jcristau@debian.org> Mon, 12 Aug 2013 17:55:45 +0200
+ +libx11 (2:1.6.0-1) unstable: urgency=low
+ * Bump libx11-dev's x11proto-core-dev dependency to 7.0.17 for _X_NORETURN
+ (closes: #649866).
+ * New upstream release
+ * Fix unbounded recursion when reading resource files (closes: #145048)
+ * XmbLookupString man page no longer warns (closes: #300819)
+ * Fix build with automake 1.13 (closes: #710467)
+ * Update 003_recognize_glibc_2.3.2_locale_names.diff.
+ * Update 006_tailor_pt_BR.UTF-8_Compose.diff.
+ * Refresh 008_remove_ko_Compose.diff.
+ * Update 009_remove_th_Compose.diff.
+ * Refresh 015_russian_locale_alias.diff.
+ * Bump shlibs and symbols for _XEatDataWords.
+ * Add new locales to configure.ac so they can get installed.
+ * Disable silent rules.
+ * Use dpkg-buildflags.
libx11 (2:1.5.0-1) unstable; urgency=low

* New upstream release. Visible changes:
  * Add APL support. yay!
  * A few duplicated Compose sequences were tweaked or removed. Affected characters are: Å / µ / Ñ / à / ² / ³ / Ó / ó / .

-- Julien Cristau <jcristau@debian.org>  Sat, 15 Jun 2013 18:31:27 +0200

libx11 (2:1.4.99.901-2) unstable; urgency=low

* Add AC_CHECK_DECL(issetugid) to fix FTBFS on kfreebsd (closes: #669670).

-- Cyril Brulebois <kibi@debian.org>  Sat, 16 Jun 2012 20:32:52 +0000

libx11 (2:1.4.99.901-1) unstable; urgency=low

* New upstream release candidate (1.5 RC1)
  * XQueryColors: split a request into multiple requests if necessary
    (closes: #278984)
  * Revert "xcb: Add TCP fallback" (closes: #659558)
  * Don't require (fake)root for debian/rules clean.
  * Drop xorg-sgml-doctools dependency from libx11-doc, the css is now included in the html files directly. Also add Breaks in addition to the Replaces on old libx11-dev.
  * Add build-indep and build-arch targets, don't build specs in build-arch.
  * Rediff 006_tailor_pt_BR.UTF-8_Compose.diff and 015_russian_locale_alias.diff.
  * Upload to unstable.

-- Julien Cristau <jcristau@debian.org>  Thu, 19 Apr 2012 22:58:30 +0200

libx11 (2:1.4.99.1-1) experimental; urgency=low

* Move xorg-sgml-doctools dependency from -dev to -doc.
  (closes: #648706).

-- Cyril Brulebois

* New upstream release candidate:
  * Bug fixes, specs clean-up, new compose sequences.
  * Add GetRequestSized.
  * Bump xorg-sgml-doctools build-dep.
+ * Refresh patch:
+  - 006_tailor_pt_BR.UTF-8_Compose.diff
+ * Add symbol:
+  - _XGetRequest@Base
+ * Bump shlibs accordingly, for the udeb.
+ + -- Cyril Brulebois <kibi@debian.org> Thu, 22 Dec 2011 12:58:15 +0100
+ +libx11 (2:1.4.4-4) unstable; urgency=low
+ + * debian/rules: since the documentation is moved to libx11-doc, the
+  * exception handling for libx11-xcb-dev needs to also look at libx11-doc,
+  * not libx11-dev.
+ + -- Steve Langasek <vorlon@debian.org> Fri, 11 Nov 2011 06:51:51 -0800
+ +libx11 (2:1.4.4-3) unstable; urgency=low
+ + * Split documentation out from libx11-dev into a separate libx11-doc
+  * package, so that libx11-dev can be multiarch co-installable.
+ + -- Steve Langasek <vorlon@debian.org> Wed, 09 Nov 2011 12:13:26 -0800
+ +libx11 (2:1.4.4-2) unstable; urgency=low
+ + [ Colin Watson ]
+ + * Fix cross-compilation breakage due to a typo in the multiarch patch
+  * (closes: #642402)
+ + -- Julien Cristau <jcristau@debian.org> Thu, 22 Sep 2011 17:42:39 +0200
+ +libx11 (2:1.4.4-1) unstable; urgency=low
+ + * New upstream release.
+ + * Drop xorg.css from libx11-dev, depend on xorg-sgml-doctools instead.
+ + -- Julien Cristau <jcristau@debian.org> Sat, 30 Jul 2011 22:14:56 +0200
+ +libx11 (2:1.4.3-3) unstable; urgency=low
+ + [ Julien Cristau ]
+ + * Add lintian override for the libx11-private dep in libx11-6.symbols.
+ + [ Cyril Brulebois ]
+ + * Fix the FTBFS on s390x (Closes: #635692): Add s390x to the list of
+  * 64-bit architectures in the symbols file. Thanks, Aurélien Jarno!
+ + -- Cyril Brulebois <kibi@debian.org> Thu, 28 Jul 2011 15:08:36 +0200
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+ libx11 (2:1.4.3-2) unstable; urgency=low
+ * Team upload.
+ 
+ [ Steve Langasek ]
+ * Build for multiarch.
+ 
+ [ Julien Cristau ]
+ * Bump Standards-Version to 3.9.2.
+ * Properly clean up libtool m4 files.
+ 
+ -- Julien Cristau <jcristau@debian.org> Sat, 11 Jun 2011 14:06:01 +0200
+ 
+libx11 (2:1.4.3-1) unstable; urgency=low
+ 
+ * New upstream release:
+ - Add Sinhala support.
+ - Add Docbook external references support.
+ * Bump x11proto-core-dev build-dep to make defining XK_SINHALA useful.
+ * Bump xutils-dev build-dep for newer macros.
+ 
+ -- Cyril Brulebois <kibi@debian.org> Tue, 05 Apr 2011 23:42:05 +0200
+ 
+libx11 (2:1.4.2-1) unstable; urgency=low
+ 
+ [ Timo Aaltonen ]
+ * New upstream release. (closes: #463159)
+ 
+ [ Cyril Brulebois ]
+ * Bump x11proto-xf86bigfont-dev build-dep.
+ 
+ -- Cyril Brulebois <kibi@debian.org> Sat, 26 Mar 2011 00:36:43 +0100
+ 
+libx11 (2:1.4.1-5) unstable; urgency=low
+ 
+ * Mark x11-data Multi-Arch: foreign.
+ 
+ -- Steve Langasek <vorlon@debian.org> Mon, 21 Feb 2011 20:01:35 -0800
+ 
+libx11 (2:1.4.1-4) unstable; urgency=low
+ 
+ * Bump Standards-Version to 3.9.1.
+ * specs were converted from groff to xml, so we can ship the html version
+ now.
+ * Drop Build-Dependencies on groff/ghostscript/... since the docs were
+ converted to xml.
+ 
---

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+ -- Julien Cristau <jcristau@debian.org> Mon, 07 Feb 2011 12:36:09 +0100
+ 
+libx11 (2:1.4.1-3) unstable; urgency=low
+
+ * Remove David Nusinow and Brice Goglin from Uploaders. Thanks for all your
+ work!
+ * Drop Conflicts on sarge-era xlsbs-data, Replaces on sarge-era libx11-6,
+ Pre-Depends on x11-common (needed for upgrades from sarge), and Conflicts
+ against pre-XCB libx11-6.
+ * Wrap debian/control Depends fields.
+ * Upload to unstable.
+
+ -- Julien Cristau <jcristau@debian.org> Sun, 06 Feb 2011 22:42:28 +0100
+
+libx11 (2:1.4.1-2) experimental; urgency=low
+
+ * Make libx11-data break earlier versions of libx11-6, since those rely
+ on XKeysymDB, resulting in a non-functional keyboard and plenty of
+ such messages: “Internal error: Could not resolve keysym *”.
+
+ -- Cyril Brulebois <kibi@debian.org> Tue, 18 Jan 2011 18:47:22 +0100
+
+libx11 (2:1.4.1-1) experimental; urgency=low
+
+ [ Julien Cristau ]
+ * New upstream release.
+ - lots of fixes for multithreaded apps
+ - X11 users can now compose anarchism (closes: #555938)
+
+ [ Robert Hooker ]
+ * New upstream release.
+ * Don't install unshipped XKeysymDB.
+ * Bump xutils-dev build-dep to 1:7.5+5 for util-macros 1.11 requirement.
+
+ [ Cyril Brulebois ]
+ * New new (new) upstream release.
+ * As a temporary measure, add 020_keep_xorg_css.diff to avoid having to
+ depend on xorg-sgml-doctools just for xorg.css.
+ * Refresh all patches.
+ * Some functions got hidden by upstream in aebbf36238, since “none of
+ the functions in Xprivate.h should have any callers outside of Xlib,
+ by definition”. As a consequence, drop the following symbols from
+ libx11-6.symbols:
+ - _XIDHandler@Base
+ - _XSetPrivSyncFunction@Base
+ - _XSetSeqSyncFunction@Base
+ * Drop obsolete --enable-man-pages=3 from configure flags.
+ * Pass --with-xmlto and --without-fop for the documentation generation.
+ * Add xmlto, xorg-sgml-doctools, w3m build-dep accordingly.
+ * Remove *.xml before running dh_install, there's no point in shipping
+ * Update debian/copyright from upstream COPYING.
+ -- Cyril Brulebois <kibi@debian.org>  Thu, 13 Jan 2011 01:18:40 +0100
+ +libx11 (2:1.3.3-3) unstable; urgency=low
+ + [ Julien Cristau ]
+ * Drop manpage from libx11-6-udeb.
+ * Don't install X11 locale data in the udeb. The installer uses only gtk
+ * apps so this is useless (and big).
+ +
+ + [ Cyril Brulebois ]
+ * Cherry-pick patch from upstream to run user's synchandlers as well as
+ any internal synchandlers: 75ea8c3793. This fixes xnee issues when
+ RECORD extension is enabled (Closes: #536491; LP: #378648).
+ * Merge xsfbs/debian-unstable to fix double autoreconf runs.
+ +-- Cyril Brulebois <kibi@debian.org>  Tue, 13 Apr 2010 14:46:16 +0200
+ +libx11 (2:1.3.3-2) unstable; urgency=low
+ + [ Julien Cristau ]
+ * Update debian/copyright from upstream COPYING.
+ * Remove myself from Upolders
+ + [ Brice Goglin ]
+ * Remove Jamey Sharp and Josh Triplett from Upolders, closes: #568274.
+ + [ Cyril Brulebois ]
+ * Add udeb needed for the graphical installer: libx11-6-udeb.
+ * Bump the B-D on libxcb1-dev to ensure libx11-6-udeb gets a dependency
+ * on libxcb1-udeb.
+ * Bump Standards-Version from 3.8.3 to 3.8.4 (no changes needed).
+ * Add myself to Upolders.
+ +-- Cyril Brulebois <kibi@debian.org>  Thu, 11 Mar 2010 01:06:06 +0100
+ +libx11 (2:1.3.3-1) unstable; urgency=low
+ + * xtrans has been fixed to not make us export a weak in6addr_any. Adjust
+ * libx11-6.symbols accordingly (closes: #560648).
+ * Rename the build directory to not include DEB_BUILD_GNU_TYPE for no
+ * good reason. Thanks, Colin Watson!
+ * Update symbols file for sparc64 (closes: #560400). Thanks, Aurélien
+ * Jarno!
+ * New upstream release
+ * fix XCopyGC argument order in manpage (LP: #408337)
+ * Bump xutils-dev build-dep for new util-macros.
+ * Install the Compose man page in libx11-data.
+ * Rediff patches 003_recognize_glibc-2.3.2_locale_names.diff,
+ 007_iso8859-15_Compose_fix.diff, 008_remove_ko_Compose.diff,
+ 009_remove_th_Compose.diff, 015_russian_locale_alias.diff.
+ * libx11-6.symbols: add xlocaledir, made non-static in 1.3.3.
+ 
+ -- Julien Cristau <jcristau@debian.org> Sat, 16 Jan 2010 22:47:32 +0000
+ 
+libx11 (2:1.3.2-1) unstable; urgency=low
+
+ [ Julien Cristau ]
+ * libx11-6.symbols: _XkbReadBufferCopy32, _XkbReadCopyData32 and
+ _XkbWriteCopyData32 are only present on 64-bit architectures.
+ * Unmark the following symbols as private, they're being used:
+   - _XRegisterFilterByMask
+   - _XRegisterFilterByType
+   - _XUnregisterFilter
+   - _XInitKeysymDB
+   - _Xevent_to_mask
+ * Build the Xlib specs and install them in libx11-dev.
+ * Upload to unstable.
+
+ [ Timo Aaltonen ]
+ * New upstream release.
+ * Bump the build-dep on xutils-dev (>= 1:7.5~1).
+
+ -- Julien Cristau <jcristau@debian.org> Mon, 23 Nov 2009 20:50:03 +0100
+ 
+libx11 (2:1.3-1) experimental; urgency=low
+
+ [ Brice Goglin ]
+ * Bump Standards-Version to 3.8.2.
+ *
+ [ Julien Cristau ]
+ * Drop 002_arm_abi_brain_damage.diff, the old ABI arm port is gone.
+ * Use a glob in libx11-6.install and libx11-xcb1.install.
+ * Add tentative symbols file for libX11.so.6. Many private symbols still
+ included.
+ * Build-depend on dpkg 1.15.3, to get support for tags in the symbols file.
+ * New upstream release candidate
+ + add \{left,right\}wards arrow to en_US.UTF-8 compose table
+ + (closes: #532117). Thanks, Filippo Giunchedi!
+ *
+ -- Julien Cristau <jcristau@debian.org> Wed, 05 Aug 2009 17:04:28 +0200
+
+libx11 (2:1.2.2-1) unstable; urgency=low
+
+ [ Julien Cristau ]
+ * Move dbg packages to new debug section.
+ * Kill preinst which handled upgrades from early Ubuntu versions (before
+ breezy). This is long obsolete.
+
+ [ Brice Goglin ]
+ * New upstream release.
+ + Fix fi_FI.UTF-8, closes: #519474.
+ + Fix thai XIM filtering keys when NumLock/CapsLock is on, closes: #443800.
+ + Add myself to Uploaders.
+
+ -- Brice Goglin <bgoglin@debian.org> Sun, 19 Jul 2009 19:21:16 +0200
+
+libx11 (2:1.2.1-1) unstable; urgency=low
+
+ * New upstream release.
+ + fixes fi_FI.UTF-8 locale (closes: #519474)
+ + adds sr_RS locale (closes: #507940)
+ + adds hu_HU.utf8 locale alias (closes: #407573)
+ + Compose entries for some standard mathematical operators
+ + (closes: #411734)
+ * Patch 012_ru_RU_UTF-8_XLC_LOCALE.diff removed, applied upstream.
+ * Update patches 003_recognize_glibc_2.3.2locale_names.diff,
+ 006_tailor_pt_BR.UTF-8_Compose.diff and 015_russian_locale_alias.diff.
+ * 003_recognize_glibc_2.3.2locale_names.diff: don't comment out the
+ microsoft-cp* entries from compose.dir (closes: #511354). Thanks, Sergei
+ Golovan!
+ * 003_recognize_glibc_2.3.2locale_names.diff: don't comment out the eo_XX
+ entries from compose.dir and locale.dir (closes: #479058). Thanks, Luiz
+ Portella!
+ * 009_remove_th_Compose.diff: new patch, comment out the th_TH.UTF-8 entry
+ from compose.dir, to allow Thai XIM as default for X apps
Open Source Used In Intersight Kubernetes Service 1.0.15 24772

(closes: #520509). Thanks, Theppitak Karoonboonyanan!

-- Julien Cristau <jcristau@debian.org> Wed, 08 Apr 2009 12:31:21 +0100

libx11 (2:1.2-1) unstable; urgency=low

* New upstream release.
* Remove obsolete ld.so.conf handling from libx11-6 postinst.
* Run autoreconf on build; add build-deps on automake, libtool, xutils-dev.
* Handle parallel builds.
* Refresh patches 003_recognize_glibc_2.3.2_locale_names.diff and
  012_ru_RU_UTF-8_XLC_LOCALE.diff.
* Use a wildcard for usr/share/X11/locale instead of listing every single
  file.

-- Julien Cristau <jcristau@debian.org> Mon, 09 Mar 2009 16:36:09 +0100

libx11 (2:1.1.99.2-1) experimental; urgency=low

* New upstream release.
* Use new xcb socket handoff mechanism, update (build-)dependencies.
* Refresh patches.
* Build-dep on x11proto-core-dev >= 7.0.13.

-- Julien Cristau <jcristau@debian.org> Mon, 01 Dec 2008 22:37:28 +0100

libx11 (2:1.1.5-2) unstable; urgency=medium

* Cherry-picked from upstream git: Fix an XCB leak when the client has a
  non-fatal error handler.

-- Julien Cristau <jcristau@debian.org> Thu, 25 Sep 2008 17:45:25 +0200

libx11 (2:1.1.5-1) unstable; urgency=low

[ Brice Goglin ]
* Add upstream URL to debian/copyright.
* Add a link to www.X.org and a reference to the upstream module
  in the long description.

[ Timo Aaltonen ]
* New upstream release.
+ adds missing <cedilla> Compose sequences (closes: #394068)

[ Julien Cristau ]
* 014_add_Khmer_digraphs.diff: remove, applied upstream
  006_tailor_pt_BR.UTF-8_Compose.diff: update
+ -- Julien Cristau <jchristau@debian.org>  Sun, 14 Sep 2008 19:09:33 +0200
+ +libx11 (2:1.1.4-2) unstable; urgency=low
+ + * Drop Pre-Depends on x11-common from libx11-6, libx11-data and libx11-xcb1.
+ + * Pull from upstream libX11-1.1-branch
+ + * fixes Compose sequences for finnish keyboards (closes: #467142)
+ + * interrobang has been added to the en_US.UTF-8 Compose file
+ + * (Finally) upload Xlib/XCB to unstable.
+ + +-- Julien Cristau <jchristau@debian.org>  Mon, 09 Jun 2008 16:27:23 +0200
+ + +libx11 (2:1.1.4-1) experimental; urgency=low
+ + + [ Timo Aaltonen ]
+ + * control: libx11-data Replaces old versions of libx11-6 to enable
+ + * upgrades from Ubuntu 6.06.
+ + + [ Julien Cristau ]
+ + * New upstream release
+ + * fixes XIM hang when switching input contexts (closes: #437437)
+ + * Update patch stack:
+ + * 003_recognize_glibc_2.3.2_locale_names.diff: fixup; drop the hunk
+ + * under #ifdef WIN32, as I don't care enough to fix it
+ + * 004_en_US.UTF-8_Compose_fix_Unicode_plane_1.diff: remove, applied upstream
+ + * 005_Compose_fix_latin1_UTF8.diff: remove, applied upstream
+ + * 006_tailor_pt_BR.UTF-8_Compose.diff: fixup
+ + * 007_iso8859-15_Compose_fix.diff: refresh
+ + * 008_remove_ko_Compose.diff: refresh
+ + * 009_iso8859-15_Compose_Eurosign.diff: remove, applied upstream
+ + * 012_ru_RU_UTF-8_XLC_LOCALE.diff: refresh
+ + * 014_add_Khmer_digraphs.diff: fixup
+ + * 015_russian_locale_alias.diff: refresh
+ + * Bump Standards-Version to 3.7.3 (no changes).
+ + * Drop XS- prefix from Vcs-* control fields.
+ + * Fix malformed trailer line in libx11-6.NEWS (thanks, lintian).
+ + +-- Julien Cristau <jchristau@debian.org>  Sat, 08 Mar 2008 03:13:07 +0100
+ + +libx11 (2:1.1.3-1) experimental; urgency=low
+ + + [ Julien Cristau ]
+ + * New upstream release.
+ Fix locking in _XimGetWindowEventmask (closes: #427296).
+ fix XGetMotionEvents arguments order (closes: #431421).
+ XGetCommand(3) clarified (closes: #133348).
+ XrmCombineDatabase(3) fixed (closes: #393434).
+ Install the upstream NEWS file in libx11-6 in addition to the git changelog.
+ Use binary:Version instead of Source-Version in debian/control.
+ [ Josh Triplett ]
+ Expand the description of the problem with Sun Java in libx11-6.NEWS.
+ -- Julien Cristau <jcristau@debian.org> Thu, 02 Aug 2007 04:13:46 +0200
+ +libx11 (2:1.1.2-1) experimental; urgency=low
+ + [ Brice Goglin ]
+ * Drop -DLIBXCURSOR from CFLAGS since upstream default is now correct (closes: #392618).
+ * Add en_DK.ISO-8859-15 to 003_recognize_glibc_2.3.2_locale_names.diff
+ Thanks Kaare Hviid. (closes: #419192).
+ [ Julien Cristau ]
+ * Add XS-Vcs-Git and XS-Vcs-Browser in debian/control.
+ * New upstream release:
+ + typo in XRecolorCursor.man fixed, closes: #225839;
+ + XRegisterIMInstantiateCallback manpage fixed, closes: #232133;
+ + XGetVisualInfo manpage fixed, closes: #399094;
+ + greek Compose file updated, patch 016_greek_polytonic_Compose.diff dropped;
+ + file descriptor leak in modules/im/ximcp/imLcPrs.c:parseline() fixed,
+ patch 021_compose_fclose.diff dropped;
+ [ Julien Cristau ]
+ * Add a watch file.
+ * Don't run dh_install with --list-missing in binary-indep, there are too
+ many false positives for it to be useful.
+ * Document workarounds for sun-java5-bin and sun-java6-bin in libx11-6.NEWS.
+ * Strip all packages, not just the shared libs.
+ -- Julien Cristau <jcristau@debian.org> Wed, 06 Jun 2007 04:46:09 +0200
+ +libx11 (2:1.1.1-1) experimental; urgency=low
+ [ Michel Dänzer ]
+ * libx11-dev Depends: libxcb-xlib0-dev, because x11.pc references xcb-xlib
+ (closes: #410117).
+ [ Julien Cristau ]
+ * New upstream release.
+ * Install upstream ChangeLog.
+ * libx11-dev doesn't seem to need to depend on libxext-dev
+ (closes: #366676).
+ * Use dh_installman in debian/rules to replace ".so" links with symlinks.
+ 
+ -- Julien Cristau <jcristau@debian.org> Fri, 9 Feb 2007 01:17:05 +0100
+
+libx11 (2:1.1-2) experimental; urgency=low
+
+ + [ Josh Triplett ]
+ * Include some upstream post-1.1 fixes in debian/patches:
+ * "Bug #9153: Fix access to freed memory."
+ * "Bug #9154: Always process an event for _XReadEvents, even if an error
+ occurs"; fixes an assertion failure, first observed with xcompmgr.
+ * "Debian bug #354315: Clarify return value in XGetWindowAttributes man
+ page" (closes: 354315)
+ * Fix override discrepancies: library packages go in libs, -dbg and -dev
+ packages go in libdevel. Fix for both the libx11 packages and the new
+ libx11-xcb packages.
+
+ -- Josh Triplett <josh@freedesktop.org> Sat, 25 Nov 2006 14:37:58 -0800
+
+libx11 (2:1.1-1) experimental; urgency=low
+
+ + [ Josh Triplett, Jamey Sharp ]
+ * New upstream version.
+ * Add ourselves to Uploaders.
+ * Forward-port patches:
+ * 001_no_xkb_in_pc_file.diff: update
+ * 003_recognize_glibc_2.3.2_locale_names.diff: update
+ * 004_en_US.UTF-8_Compose_fix_Unicode_plane_1.diff: update
+ * 005_Compose_fix_latin1_UTF8.diff: update
+ * 010_manpage_suffixes.diff: delete, applied upstream
+ * 012_ru_RU_UTF-8_XLC_LOCALE.diff: update
+ * 014_add_Khmer_digraphs.diff: update
+ * 015_russian_locale_alias.diff: update
+ * 016_greek_polytonic_Compose.diff: update
+ * 019_new_autoconf.diff: delete, applied upstream
+ * 020_CVE-2006-5397.diff: delete, applied upstream
+ * Stop registering /usr/X11R6/lib in /etc/ld.so.conf in the postinst;
+ instead, deregister it if no libraries remain in it. Remove deregistration
+ in postrm, and remove now-unnecessary postrm.
+ * Add Build-Depends on libxcb1-dev >= 0.9.92 and libxcb-xlib-dev >= 0.9.92.
+ * Remove Build-Depends not needed with Xlib/XCB: bigreqsproto, xcmiscproto,
+ libxau-dev, and libxdmcp-dev.
+ * libx11-dev has some unnecessary Depends, but other packages currently rely
+ on them, so removal will wait until a later version.
+ * Add library, -dev, and -dbg packages for new library libX11-xcb. Modify
rules to handle these new packages.
+ * libX11-xcb Conflicts: libx11-6 (<= 2:1.1), since it requires a version with
  Xlib/XCB.
+ * Add a NEWS.Debian to libx11-6, with Xlib/XCB information.
+ * Add XS-Vcs-Git field.
+ * Remove old upstream CVS information from package descriptions.
+ * Reword package descriptions to stop calling Xlib "the" client interface.
+
+ -- Josh Triplett <josh@freedesktop.org>  Fri, 24 Nov 2006 17:36:55 -0800
+
+libx11 (2:1.0.3-7) unstable; urgency=high
+
+ * Grab patch from upstream git to fix CVE-2007-1667 (the patch included in
  2:1.0.3-6 was incomplete). This closes: #414045.
+
+ -- Julien Cristau <jcristau@debian.org>  Tue, 03 Apr 2007 18:45:51 +0200
+
+libx11 (2:1.0.3-6) unstable; urgency=high
+
+ * Add patch by Daniel Kobras <kobras@debian.org> to add more input
  validation to XInitImage(), to fix security issues (closes: #414045).
+
+ -- Julien Cristau <jcristau@debian.org>  Fri,  9 Mar 2007 02:23:06 +0100
+
+libx11 (2:1.0.3-5) unstable; urgency=high
+
+ * Remove /usr/X11R6/lib from /etc/ld.so.conf in postinst if it's no longer
  needed, instead of adding it there.
+ * Add patch 021_compose_fclose.diff to fix file descriptor leak when a
  Compose file uses the "include" directive. Urgency high because this bug
  can have security implications.
+ * Add myself to Uploaders, and remove Fabio and Branden with their
  permission.
+
+ -- Julien Cristau <julien.cristau@ens-lyon.org>  Thu,  1 Feb 2007 13:09:20 +0100
+
+libx11 (2:1.0.3-4) unstable; urgency=low
+
+ * Some patches got lost in the upgrade from 1.0.0 (2:1.0.0-9) to 1.0.3:
  - 015_russian_locale_alias.diff. Closes: #368655.
  This aligns with the glibc russian definition of ru_RU.KOI8-R in
  /usr/share/locale/locale.alias. Note that this only applies to
  Debian's glibc, see bug #62586 and glibc 2.2.5-4. Because of the
  constraint imposed by glibc in /usr/share/i18n/locales/ru_RU,
  we cannot likewise change ru and ru_RU away from ISO8859-5.
  They really should be using ru_RU.UTF-8 anyway.
+ * 016_greek_polytonic_Compose.diff. Closes: #386471.
+ 017_FTBFS_makekeys.diff can be left out since it is applied in 1.0.3.
+ -- Drew Parsons <dparsons@debian.org> Wed, 22 Nov 2006 00:26:36 +1100
+ +libx11 (2:1.0.3-3) unstable; urgency=high
+ + [ Julien Cristau ]
+ + * Urgency high for security bugfix (CVE-2006-5397).
+ + * Add patch 020_CVE-2006-5397 to fix double fopen() of compose file
+ + (closes: #398460). Thanks to Stefan Fritsch for the report.
+ + -- David Nusinow <dnusinow@debian.org> Tue, 14 Nov 2006 19:56:01 -0500
+ + +libx11 (2:1.0.3-2) unstable; urgency=low
+ + + [ Denis Barbier ]
+ + * Drop --enable-loadable-i18n from confflags, it does not work with 1.0.3.
+ + Closes: #392567 Thanks Jérôme Marant
+ + -- David Nusinow <dnusinow@debian.org> Fri, 13 Oct 2006 13:25:59 -0400
+ + +libx11 (2:1.0.3-1) unstable; urgency=low
+ + + [ David Nusinow ]
+ + * New upstream release
+ + * Dump obsolete patch 10 for manpage fix and 13 for setuid fix
+ + * Run dh_install with --list-missing
+ + * Remove obsolete patch 011
+ + * Bump debhelper compat to 5
+ + * Upstream fix allows building in gnu environments. Thanks Samuel
+ + Thibault, Robert Millan, and Michael Banck. Closes: #358708
+ + * Add 019_new_autoconf.diff to allow us to not break the server in
+ + horrendous ways using newer versions of autoconf. Thanks to Jamey Sharp
+ + for pointing this patch out in upstream HEAD.
+ + * Add 010_manpage_suffixes.diff to dynamically generate the internal manpage
+ + section using __libmansuffix__ the same way the actual file suffix is
+ + generated, so that they match and lintian becomes useful again here
+ + * Add pre-depends on x11-common for the -dev package
+ + + [ Denis Barbier ]
+ + * Sync patches:
+ + * 003_recognize_glibc_2.3.2_locale_names.diff
+ + * 005_Compose_fix_latin1_UTF8.diff
+ + * 006_tailor_pt_BR.UTF-8_Compose.diff
+ + * 014_add_Khmer_digraphs.diff
+ + * Add 014_add_Khmer_digraphs.diff. Khmer keyboards have to generate
+ + several characters with a single keystroke, so define them in
+ + en_US.UTF-8/Compose. They will be added later to all UTF-8 files.
+ + Thanks Paul Wise. (closes: #355957)
+ * Add support for Khmer locale in 003_recognize_glibc_2.3.2_locale_names.diff
+ [ Andres Salomon ]
+ * Test for obj-$\$(DEB\_BUILD\_GNU\_TYPE) before creating it during build;
+ idempotency fix.
+ [ Drew Parsons ]
+ * dbg package has priority extra.
+ + -- David Nusinow <dnusinow@debian.org> Tue, 10 Oct 2006 22:34:36 -0400
+ + "libx11 (2:1.0.0-9) unstable; urgency=low
+ + * Add 015_russian_locale_alias.diff. Locale alias for russian was incorrect,
+ + it should be ru RU.KOI8-R as in glibc locale.alias. Thanks Andrei Lahun.
+ + (closes: #368655)
+ + * Add 016_greek_polytonic_Compose.diff. Add compose sequences with the
+ + right breathing signs U0313/U0314 to el_GR.UTF-8/Compose.
+ + Thanks Jan Willem Stumpel. (closes: #386471)
+ + * Add 017_FT BFS_makekeys.diff. Fix a FTBFS when compiling with
+ + x11proto-core-dev >= 7.0.3, backported from upstream.
+ + Thanks Goswin von Brederlow. (closes: #387133)
+ + + -- Denis Barbier <barbier@debian.org> Thu, 14 Sep 2006 01:35:19 +0200
+ + + "libx11 (2:1.0.0-8) unstable; urgency=low
+ + * Add 18_nonlinux.diff to fix building in gnu environments. Thanks Samuel
+ + Thibault, Robert Millan, and Michael Banck. Closes: #358708
+ + + -- David Nusinow <dnusinow@debian.org> Wed, 27 Sep 2006 21:07:10 -0400
+ + + "libx11 (2:1.0.0-7) unstable; urgency=high
+ + * Security update. Fix for setuid privledge escalation vulernabilities.
+ + the full advisory.
+ + * Bump standards version to 3.7.2.0
+ + + -- David Nusinow <dnusinow@debian.org> Sat, 1 Jul 2006 17:05:07 -0400
+ + + "libx11 (2:1.0.0-6) unstable; urgency=low
+ + * Remove libx11-dev's dependencies on libxi-dev and libxkbfile-dev. Add a
+ + dependency on x11proto-input-dev instead. This should break some circular
+ + dependencies. Thanks go yet again to Kurt Roeckx.
+ + + -- David Nusinow <dnusinow@debian.org> Tue, 11 Apr 2006 18:17:46 -0400
+ * libx11-6.install.in? Huh? Replaced with libx11-6.install
+ * Add real binary-indep.
+ * Add patches from 6.9:
  + - 002_arm_abi_brain_damage.diff
  + - 003_recognize_glibc_2.3.2_locale_names.diff
  + - 004_en_US.UTF-8_Compose_fix_Unicode_plane_1.diff
  + - 005_Compose_fix_latin1_UTF8.diff
  + - 006_tailor_pt_BR.UTF-8_Compose.diff
  + - 007_iso8859-15_Compose_fix.diff
  + - 008_remove_ko_Compose.diff
  + - 009_iso8859-15_Compose_Eurosign.diff
  + - 012_ru_RU_UTF-8_XLC_LOCALE.diff
+ * Adjust Pre-depends for libx11-6. Remove depends on x11-common from
  + libx11-dbg and libx11-dev as they depend on libx11-6 anyway.
+ * Run dh_install with --fail-missing if there is checkinstall in
  + DEB_BUILD_OPTIONS
+ * Resurrect libx11-6.post{inst,rm}.in. Add genscripts to build target's
  + dependencies.
+ * Fix libx11-6.preinst.in to include shelllib and define appropriate vars.
+ * Grab fixes for manpages section from Xorg CVS
  + - 010_manpages_fix.diff
+ * Grab ubuntu patch to support XLOCALELIBDIR separate from XLOCALEDIR
  + - 011_stolen_fromUbuntu_xlocalelibdir.diff
+ * Add --enable-loadable-i18n to confflags.
+ * Use new xsfbq-autoreconf.mk to do autoreconfing.
++ -- Eugene Konev <ejka@imfi.kspu.ru>  Mon, 27 Feb 2006 13:45:29 +0700
++ +libx11 (2:1.0.0-1) experimental; urgency=low
++ + * First upload to Debian
++ + * Remove versioned build-dep on x11proto-core-dev, since the first package
++ + we'll be uploading will be versioned properly for us
++ + * Remove patch dir as the patch has been incorporated by upstream
++ + -- David Nusinow <dnusinow@debian.org>  Thu, 29 Dec 2005 20:51:20 -0500
++ +libx11 (1:6.2.1+cvs.20050722-8) breezy; urgency=low
++ + * Fix non-UTF-8 locales by fixing generation of compose.dir, locale.alias,
++ + and locale.dir in nls/ (closes: Ubuntu#13724).
++ + -- Daniel Stone <daniel.stone@ubuntu.com>  Fri, 30 Sep 2005 16:30:55 +1000
++ +libx11 (1:6.2.1+cvs.20050722-7) breezy; urgency=low
++ + * Move man pages back to section 3 (closes: Ubuntu#16290).
libx11 (1:6.2.1+cvs.20050722-6) breezy; urgency=low
+ * Add libx11-dev Build-Depends on x11proto-kb-dev, so we get XKBstr.h, which
  makes XKBlib.h usable.
+ * Add foo_t and TRANS_CLIENT defines to Xtrans users; thanks Isaac Richards
  for the catch (closes: Ubuntu#12052).

-- Daniel Stone <daniel.stone@ubuntu.com>  Thu, 29 Sep 2005 11:26:11 +1000
+

libx11 (1:6.2.1+cvs.20050722-5) breezy; urgency=low
+ * Add x-common Pre-Depends to libx11-6, as we ship stuff in
  /usr/lib/X11.

-- Daniel Stone <daniel.stone@ubuntu.com>  Fri, 19 Aug 2005 15:19:33 +1000
+

libx11 (1:6.2.1+cvs.20050722-4) breezy; urgency=low
+ * Fix search path for libXcursor.
+ * Add :s to compose.dir to get composition working in apps which use the
  default X input method (closes: Ubuntu#12184).

-- Daniel Stone <daniel.stone@ubuntu.com>  Thu, 18 Aug 2005 12:12:45 +1000
+

libx11 (1:6.2.1+cvs.20050722-3) breezy; urgency=low
+ * Make ErrDes.c and StrKeysym.c look for XKEYSYMDB and XERRORDB, not
  KEYSYMDB and ERRORDB, with the pleasant side-effect that they look
  directly in /usr/share/X11, not /usr/lib/X11, so we can throw the cheesy
  symlinks away. This fixes some corner cases in hoary upgrades.

-- Daniel Stone <daniel.stone@ubuntu.com>  Mon,  8 Aug 2005 13:32:12 +1000
+

libx11 (1:6.2.1+cvs.20050722-2) breezy; urgency=low
+ * Move locale data back to /usr/share and libraries to /usr/lib. XlcDL.c
  and lcFile.c hacked to accommodate this, as well as configure.ac. This
  fixes all the locale problems, AFAICT. (closes: Ubuntu#12142)

-- Daniel Stone <daniel.stone@ubuntu.com>  Mon,  1 Aug 2005 13:17:15 +1000
+

libx11 (1:6.2.1+cvs.20050722-1) breezy; urgency=low
+ * Fix locales harder: add the old loadable locale modules back.
+ * Although architecture-independent locale data has been moved to
  /usr/lib/X11/locale because of limitations in the path-parsing code.
Argh!
+ * Bump Build-Depends on x11proto-core-dev to today's CVS; -D_XOPEN_SOURCE
+ begone!
+
 -- Daniel Stone <daniel.stone@ubuntu.com>  Fri, 22 Jul 2005 22:29:21 +1000
+
+libx11 (1:6.2.1+cvs.20050711-1) breezy; urgency=low
+
+ * New CVS snapshot, incorporating patch #086 from the monolith.
+
 -- Daniel Stone <daniel.stone@ubuntu.com>  Mon, 11 Jul 2005 10:10:44 +1000
+
+libx11 (1:6.2.1+cvs.20050615-5) breezy; urgency=low
+
+ * Bump libx11-6 -> xlibs-data Conflicts/Replaces to -34; Tollef's -33 did
+   not change this.
+
 -- Daniel Stone <daniel.stone@ubuntu.com>  Tue,  5 Jul 2005 01:41:19 +1000
+
+libx11 (1:6.2.1+cvs.20050615-4) breezy; urgency=low
+
+ * Make Build-Depends and Depends on x11proto-core-dev explicitly >=
+   6.8.99.8-1 (hi LaMont!).
+ * Add symlink to X{Error,KeySym}DB from /usr/[X11R6,]lib/X11. Bump
+   Conflicts on xlibs-data up to -33. Add symlink to locale data in
+   /usr/[X11R6,]lib/X11 (closes: Ubuntu#12081).
+
 -- Daniel Stone <daniel.stone@ubuntu.com>  Fri, 17 Jun 2005 15:58:44 +1000
+
+libx11 (1:6.2.1+cvs.20050615-3) breezy; urgency=low
+
+ * Add missing build-depends on:
+   - pkg-config, x11proto-kb-dev, x11proto-input-dev
+
 -- Adam Conrad <adconrad@ubuntu.com>  Thu, 16 Jun 2005 13:50:14 +0000
+
+libx11 (1:6.2.1+cvs.20050615-2) breezy; urgency=low
+
+ * Move Build-Depends-Indep to Build-Depends to fix FTBFSs.
+
 -- Adam Conrad <adconrad@ubuntu.com>  Thu, 16 Jun 2005 08:53:59 +0000
+
+libx11 (1:6.2.1+cvs.20050615-1) breezy; urgency=low
+
+ * First libx11 release.
+   + XCB support removed for now.
+
 -- Daniel Stone <daniel.stone@ubuntu.com>  Mon, 16 May 2005 22:10:17 +1000
--- libx11-1.6.7.orig/debian/compat
+++ libx11-1.6.7/debian/compat
@@ -0,0 +1 @@
+10
--- libx11-1.6.7.orig/debian/control
+++ libx11-1.6.7/debian/control
@@ -0,0 +1,168 @@
+Source: libx11
+Section: x11
+Priority: optional
+Maintainer: Debian X Strike Force <debian-x@lists.debian.org>
+Build-Depends:
+ debhelper (>= 10),
+ dpkg-dev (>= 1.18.0),
+ pkg-config,
+ xtrans-dev,
+ x11proto-core-dev (>= 7.0.21),
+ x11proto-kb-dev,
+ x11proto-input-dev,
+ x11proto-xext-dev,
+ x11proto-xf86bigfont-dev (>= 1.2.0),
+ libxcb1-dev (>= 1.11.1),
+ quilt,
+ xutil-dev (>= 1:7.6+2),
+# specs
+ xmlto,
+ xorg-sgml-doctools (>= 1:1.10),
+ w3m,
+ Standards-Version: 4.2.0
+Vcs-Git: https://salsa.debian.org/xorg-team/lib/libx11
+Vcs-Browser: https://salsa.debian.org/xorg-team/lib/libx11
+
+Package: libx11-6
+Section: libs
+Architecture: any
+Depends:
+ ${shlibs:Depends},
+ ${misc:Depends},
+ libx11-data,
+Pre-Depends: ${misc:Pre-Depends}
+Multi-Arch: same
+Description: X11 client-side library
+ This package provides a client interface to the X Window System, otherwise
+ known as 'Xlib'. It provides a complete API for the basic functions of the
+ window system.
+.
+ More information about X.Org can be found at:
+ <URL:https://www.X.org>
This module can be found at git://anongit.freedesktop.org/git/xorg/lib/libX11

Package: libx11-6-udeb
+XC-Package-Type: udeb
+Architecture: any
+Depends:
+ ${shlibs:Depends},
+ ${misc:Depends},
+Description: X11 client-side library
+This is a udeb, or a microdeb, for the debian-installer.

Package: libx11-data
+Architecture: all
+Depends:
+ ${misc:Depends},
+Breaks: libx11-6 (< 2:1.4.1)
+Multi-Arch: foreign
+Description: X11 client-side library
+This package provides the locale data files for libx11.

+More information about X.Org can be found at:
+<URL:https://www.X.org>

Package: libx11-dev
+Architecture: any
+Multi-Arch: same
+Depends:
+ ${shlibs:Depends},
+ ${misc:Depends},
+ ${binary:Version},
+ libx11-6 (= ${binary:Version}),
+ libxau-dev (>= 1:1.0.0-1),
+ libxdmcp-dev (>= 1:1.0.0-1),
+ x11proto-core-dev (>= 7.0.17),
+ x11proto-input-dev,
+ x11proto-kb-dev,
+ xtrans-dev,
+ libxcb1-dev,
+Suggests: libx11-doc
+Description: X11 client-side library (development headers)
+This package provides a client interface to the X Window System, otherwise known as 'Xlib'. It provides a complete API for the basic functions of the
This package contains the development headers for the library found in
libx11-6. Non-developers likely have little use for this package.

More information about X.Org can be found at:
<URL:https://www.X.org>

This module can be found at
git://anongit.freedesktop.org/git/xorg/lib/libX11

Package: libx11-xcb1
Section: libdevel
Architecture: any
Depends:
+ ${shlibs:Depends},
+ ${misc:Depends},
+Pre-Depends: ${misc:Pre-Depends}
Multi-Arch: same
Description: Xlib/XCB interface library
libX11-xcb provides functions needed by clients which take advantage of
Xlib/XCB to mix calls to both Xlib and XCB over the same X connection.

More information about XCB can be found at:
<URL:https://xcb.freedesktop.org>

This module can be found at
git://anongit.freedesktop.org/git/xorg/lib/libX11

Package: libx11-xcb-dev
Section: libdevel
Architecture: any
Multi-Arch: same
Depends:
+ ${shlibs:Depends},
+ ${misc:Depends},
+ libx11-xcb1 (= ${binary:Version}),
+ libxcb1-dev (>= 1.11.1),
+ libx11-dev,
Description: Xlib/XCB interface library (development headers)
libX11-xcb provides functions needed by clients which take advantage of
Xlib/XCB to mix calls to both Xlib and XCB over the same X connection.
This package contains the development headers for the library found in
libx11-xcb1. Non-developers likely have little use for this package.
This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libX11
+
+Package: libx11-doc
+Section: doc
+Architecture: all
+Multi-Arch: foreign
+Depends:
+ ${misc:Depends},
+Replaces: libx11-dev (<< 2:1.4.4-3)
+Breaks: libx11-dev (<< 2:1.4.4-3)
+Description: X11 client-side library (development documentation)
+ This package provides a client interface to the X Window System, otherwise
+ known as 'Xlib'. It provides a complete API for the basic functions of the
+ window system.
+ .
+ This package contains supplemental documentation for the library found in
+ libx11-6. Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:https://www.x.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libX11
--- libx11-1.6.7.orig/debian/copyright
+++ libx11-1.6.7/debian/copyright
@@ -0,0 +1,944 @@
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--- libx11-1.6.7.orig/debian/libx11-6-udeb.install
+++ libx11-1.6.7/debian/libx11-6-udeb.install
@@ -0,0 +1,5 @@
+ # from libx11-6:
+ /usr/lib/*/*.so.6* /usr/lib
+
+ # from libx11-data:
+ /usr/share/X11/XErrorDB
--- libx11-1.6.7.orig/debian/libx11-6.NEWS
+++ libx11-1.6.7/debian/libx11-6.NEWS
@@ -0,0 +1,32 @@
+ libx11 2:1.1-1) experimental; urgency=low
+
+ [ Josh Triplett, Jamey Sharp ]
+ libx11 1.1 includes our work on Xlib/XCB, which uses XCB as the Xlib transport layer, and allows a client to use both Xlib and XCB on the same connection. This allows clients to transition from Xlib to XCB incrementally. libx11-6 1.1 is API- and ABI-compatible with previous versions, and does not require any software or package changes.
+
+ Ideally, you will not notice any change at all. However, Xlib/XCB includes some additional code to check for bugs in calling software. If you encounter a problem, you will most likely just see an application disappear, due to having triggered an assertion and aborted. If you ran the application from a terminal, you can look there to see error output and get more details; otherwise, look at ~/.xsession-errors. These assertions look like one of these:
+
Both of these represent bugs in a caller of libX11, and *not* in libX11 or libxcb. The first assertion means that a caller attempted to lock the display while already locked. The second assertion means that a caller attempted to unlock the display without having it locked. If you encounter such bugs, please report a bug against the offending software (*not* libx11-6 or libxcb), provide a backtrace, and X-Debbugs-CC: xcb@lists.freedesktop.org if you need help tracking down the problem. If the bug always consistently occurs when running the application (or in the case of a library, invoking the library), use severity "important", and raise to "grave" after the etch release.

-- Josh Triplett <josh@freedesktop.org>  Fri, 24 Nov 2006 17:36:55 -0800
--- libx11-1.6.7.orig/debian/libx11-6.install
+++ libx11-1.6.7/debian/libx11-6.install
@@ -0,0 +1 @@
+usr/lib/*/*libX11.so.6*
--- libx11-1.6.7.orig/debian/libx11-6.lintian-overrides
+++ libx11-1.6.7/debian/libx11-6.lintian-overrides
@@ -0,0 +1 @@
+symbols-declares-dependency-on-other-package libx11-private
--- libx11-1.6.7.orig/debian/libx11-6.symbols
+++ libx11-1.6.7/debian/libx11-6.symbols
@@ -0,0 +1,1235 @@
+libX11.so.6 libx11-6 #MINVER#
+libx11-private
+(optional)KeySymToUcs4@Base 0 1
+XActivateScreenSaver@Base 0
+XAddConnectionWatch@Base 0
+XAddExtension@Base 0
+XAddHost@Base 0
+XAddHosts@Base 0
+XAddPixel@Base 0
+XAddToExtensionList@Base 0
+XAddToSaveSet@Base 0
+XAllPlanes@Base 0
+XAllocClassHint@Base 0
+XAllocColor@Base 0
+XAllocColorCells@Base 0
+XAllocColorPlanes@Base 0
+XAllocIconSize@Base 0
+XAllocNamedColor@Base 0
+XAllocStandardColormap@Base 0
+XAllocWMHints@Base 0
+XAllowEvents@Base 0
+XAutoRepeatOff@Base 0
+XAutoRepeatOn@Base 0
+ XDrawImageString16@Base 0
+ XDrawImageString@Base 0
+ XDrawLine@Base 0
+ XDrawLines@Base 0
+ XDrawPoint@Base 0
+ XDrawPoints@Base 0
+ XDrawRectangle@Base 0
+ XDrawRectangles@Base 0
+ XDrawSegments@Base 0
+ XDrawString16@Base 0
+ XDrawString@Base 0
+ XDrawText16@Base 0
+ XDrawText@Base 0
+ XEHeadOfExtensionList@Base 0
+ XESetBeforeFlush@Base 0
+ XESetCloseDisplay@Base 0
+ XESetCopyEventCookie@Base 2:1.2.99.901
+ XESetCopyGC@Base 0
+ XESetCreateFont@Base 0
+ XESetCreateGC@Base 0
+ XESetError@Base 0
+ XESetErrorString@Base 0
+ XESetEventToWire@Base 0
+ XESetFlushGC@Base 0
+ XESetFreeFont@Base 0
+ XESetFreeGC@Base 0
+ XESetPrintErrorValues@Base 0
+ XESetWireToError@Base 0
+ XESetWireToEvent@Base 0
+ XESetWireToEventCookie@Base 2:1.2.99.901
+ XEmptyRegion@Base 0
+ XEnableAccessControl@Base 0
+ XEqualRegion@Base 0
+ XEventMaskOfScreen@Base 0
+ XEventsQueued@Base 0
+ XExtendedMaxRequestSize@Base 0
+ XExtentsOfFontSet@Base 0
+ XFFillBuffer@Base 0
+ XFFillBytes@Base 0
+ XFFillName@Base 0
+ XFillArc@Base 0
+ XFillArcs@Base 0
+ XFillPolygon@Base 0
+ XFillRectangle@Base 0
+ XFillRectangles@Base 0
+ XFilterEvent@Base 0
+ XFindContext@Base 0
+ XFindOnExtensionList@Base 0
+ XSetAuthorization@Base 0
+ XSetBackground@Base 0
+ XSetClassHint@Base 0
+ XSetClipMask@Base 0
+ XSetClipOrigin@Base 0
+ XSetClipRectangles@Base 0
+ XSetCloseDownMode@Base 0
+ XSetCommand@Base 0
+ XSetDashes@Base 0
+ XSetErrorHandler@Base 0
+ XSetFillRule@Base 0
+ XSetFillStyle@Base 0
+ XSetFont@Base 0
+ XSetFontPath@Base 0
+ XSetForeground@Base 0
+ XSetFunction@Base 0
+ XSetGraphicsExposures@Base 0
+ XSetICFocus@Base 0
+ XSetICValues@Base 0
+ XSetIMValues@Base 0
+ XSetIOErrorHandler@Base 0
+ XSetIconName@Base 0
+ XSetIconSizes@Base 0
+ XSetInputFocus@Base 0
+ XSetLineAttributes@Base 0
+ XSetLocaleModifiers@Base 0
+ XSetModifierMapping@Base 0
+ XSetNormalHints@Base 0
+ XSetOCValues@Base 0
+ XSetOMValues@Base 0
+ XSetPlaneMask@Base 0
+ XSetPointerMapping@Base 0
+ XSetRGBColormaps@Base 0
+ XSetRegion@Base 0
+ XSetScreenSaver@Base 0
+ XSetSelectionOwner@Base 0
+ XSetSizeHints@Base 0
+ XSetStandardColormap@Base 0
+ XSetStandardProperties@Base 0
+ XSetState@Base 0
+ XSetStipple@Base 0
+ XSetSubwindowMode@Base 0
+ XSetTSOrigin@Base 0
+ XSetTextProperty@Base 0
+ XSetTile@Base 0
+ XSetTransientForHint@Base 0
+ XSetWMClientMachine@Base 0
+ XSetWMColormapWindows@Base 0
+ XSetWMHints@Base 0
+ XSetWMIconName@Base 0
+ XSetWMName@Base 0
+ XSetWMNormalHints@Base 0
+ XSetWMProperties@Base 0
+ XSetWMProtocols@Base 0
+ XSetWMSizeHints@Base 0
+ XSetWindowBackground@Base 0
+ XSetWindowBackgroundPixmap@Base 0
+ XSetWindowBorder@Base 0
+ XSetWindowBorderPixmap@Base 0
+ XSetWindowBorderWidth@Base 0
+ XSetWindowColormap@Base 0
+ XSetZoomHints@Base 0
+ XShrinkRegion@Base 0
+ XStoreBuffer@Base 0
+ XStoreBytes@Base 0
+ XStoreColor@Base 0
+ XStoreColors@Base 0
+ XStoreName@Base 0
+ XStoreNamedColor@Base 0
+ XStringListToTextProperty@Base 0
+ XStringToKeysym@Base 0
+ XSubImage@Base 0
+ XSubtractRegion@Base 0
+ XSUPPORTSLOCALE@Base 0
+ XSynchronize@Base 0
+ XSynchronize@Base 0
+ XTranslateCoordinates@Base 0
+ XUndefineCursor@Base 0
+ XUngrabButton@Base 0
+ XUngrabKey@Base 0
+ XUngrabKeyboard@Base 0
+ XUngrabPointer@Base 0
+ XUngrabServer@Base 0
+ XUninstallColormap@Base 0
+ XUnionRectWithRegion@Base 0
+ XUnionRegion@Base 0
+ XUnloadFont@Base 0
+ XUnlockDisplay@Base 0
+ XUnmapSubwindows@Base 0
+ XUnmapWindow@Base 0
+ XUnregisterIMInstantiateCallback@Base 0
+ (optional)XcmsCIExyYColorSpace@Base 0 1
+ XcmsCIExyYToCIEXYZ@Base 0
+ XcmsClientWhitePointOfCCC@Base 0
+ XcmsConvertColors@Base 0
+ XcmsCreateCCC@Base 0
+ XcmsDefaultCCC@Base 0
+ XcmsDisplayOfICC@Base 0
+ XcmsFormatOfPrefix@Base 0
+ XcmsFreeCCC@Base 0
+ (optional)XcmsLinearRGBFunctionSet@Base 0 1
+ XcmsLookupColor@Base 0
+ XcmsPrefixOfFormat@Base 0
+ XcmsQueryBlack@Base 0
+ XcmsQueryBlue@Base 0
+ XcmsQueryColor@Base 0
+ XcmsQueryColors@Base 0
+ XcmsQueryGreen@Base 0
+ XcmsQueryRed@Base 0
+ XcmsQueryWhite@Base 0
+ (optional)XcmsRGBColorSpace@Base 0 1
+ XcmsRGBToRGBi@Base 0
+ (optional)XcmsRGBIColorSpace@Base 0 1
+ XcmsRGBiToCIEXYZ@Base 0
+ XcmsRGBiToRGB@Base 0
+ XcmsScreenNumberOfCCC@Base 0
+ XcmsScreenWhitePointOfCCC@Base 0
+ XcmsSetCCCOfColormap@Base 0
+ XcmsSetCompressionProc@Base 0
+ XcmsSetWhiteAdjustProc@Base 0
+ XcmsSetWhitePoint@Base 0
+ XcmsStoreColor@Base 0
+ XcmsStoreColors@Base 0
+ XcmsTekHVCClipC@Base 0
+ XcmsTekHVCClipV@Base 0
+ XcmsTekHVCClipVC@Base 0
+ (optional)XcmsTekHVCColorSpace@Base 0 1
+ XcmsTekHVCQueryMaxC@Base 0
+ XcmsTekHVCQueryMaxV@Base 0
+ XcmsTekHVCQueryMaxVC@Base 0
+ XcmsTekHVCQueryMaxVSamples@Base 0
+ XcmsTekHVCQueryMinV@Base 0
+ XcmsTekHVCToClEuY@Base 0
+ XcmsTekHVCWhiteShiftColors@Base 0
+ (optional)XcmsUNDEFINEDColorSpace@Base 0 1
+ XcmsVisualOfCCC@Base 0
+ XkbAddDeviceLedInfo@Base 0
+ XkbAddGeomColor@Base 0
+ XkbAddGeomDoodad@Base 0
+ XkbAddDeviceLedInfo@Base 0
+ XkbAddGeomColor@Base 0
+ XkbAddGeomDoodad@Base 0

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Open Source Used In Intersight Kubernetes Service 1.0.15 24818
+ XkbAddGeomKey@Base 0
+ XkbAddGeomKeyAlias@Base 0
+ XkbAddGeomOutline@Base 0
+ XkbAddGeomOverlay@Base 0
+ XkbAddGeomOverlayKey@Base 0
+ XkbAddGeomOverlayRow@Base 0
+ XkbAddGeomProperty@Base 0
+ XkbAddGeomRow@Base 0
+ XkbAddGeomSection@Base 0
+ XkbAddGeomShape@Base 0
+ XkbAddKeyType@Base 0
+ XkbAllocClientMap@Base 0
+ XkbAllocCompatMap@Base 0
+ XkbAllocControls@Base 0
+ XkbAllocDeviceInfo@Base 0
+ XkbAllocGeomColors@Base 0
+ XkbAllocGeomDoodads@Base 0
+ XkbAllocGeomKeyAliases@Base 0
+ XkbAllocGeomKeys@Base 0
+ XkbAllocGeomOutlines@Base 0
+ XkbAllocGeomOverlayKeys@Base 0
+ XkbAllocGeomOverlayRows@Base 0
+ XkbAllocGeomOverlays@Base 0
+ XkbAllocGeomPoints@Base 0
+ XkbAllocGeomProps@Base 0
+ XkbAllocGeomRows@Base 0
+ XkbAllocGeomSectionDoodads@Base 0
+ XkbAllocGeomSections@Base 0
+ XkbAllocGeomShapes@Base 0
+ XkbAllocGeometry@Base 0
+ XkbAllocIndicatorMaps@Base 0
+ XkbAllocKeyboard@Base 0
+ XkbAllocNames@Base 0
+ XkbAllocServerMap@Base 0
+ XkbApplyCompatMapToKey@Base 0
+ XkbApplyVirtualModChanges@Base 0
+ XkbBell@Base 0
+ XkbBellEvent@Base 0
+ XkbChangeDeviceInfo@Base 0
+ XkbChangeEnabledControls@Base 0
+ XkbChangeKeyCodeRange@Base 0
+ XkbChangeMap@Base 0
+ XkbChangeNames@Base 0
+ XkbChangeTypesOfKey@Base 0
+ XkbComputeEffectiveMap@Base 0
+ XkbComputeRowBounds@Base 0
+ XkbComputeSectionBounds@Base 0
+ XkbComputeShapeBounds@Base 0
+ XkbSetDeviceButtonActions@Base 0
+ XkbSetDeviceInfo@Base 0
+ XkbSetDeviceLedInfo@Base 0
+ XkbSetGeometry@Base 0
+ XkbSetIgnoreLockMods@Base 0
+ XkbSetIndicatorMap@Base 0
+ XkbSetMap@Base 0
+ XkbSetNamedDeviceIndicator@Base 0
+ XkbSetNamedIndicator@Base 0
+ XkbSetNames@Base 0
+ XkbSetPerClientControls@Base 0
+ XkbSetServerInternalMods@Base 0
+ XkbSetXlibControls@Base 0
+ XkbToControl@Base 0
+ XkbTranslateKey@Base 0
+ XkbTranslateKeyCode@Base 0
+ XkbTranslateKeySym@Base 0
+ XkbUpdateActionVirtualMods@Base 0
+ XkbUpdateKeyTypeVirtualMods@Base 0
+ XkbUpdateMapFromCore@Base 0
+ XkbUseExtension@Base 0
+ XkbVirtualModsToReal@Base 0
+ XkbXlibControlsImplemented@Base 0
+ XmbDrawImageString@Base 0
+ XmbDrawString@Base 0
+ XmbDrawText@Base 0
+ XmbLookupString@Base 0
+ XmbResetIC@Base 0
+ XmbSetWMProperties@Base 0
+ XmbTextEscapement@Base 0
+ XmbTextExtents@Base 0
+ XmbTextListToTextProperty@Base 0
+ XmbTextPerCharExtents@Base 0
+ XmbTextPropertyToTextList@Base 0
+ Xpermalloc@Base 0
+ XrmCombineDatabase@Base 0
+ XrmCombineFileDatabase@Base 0
+ XrmDestroyDatabase@Base 0
+ XrmEnumerateDatabase@Base 0
+ XrmGetDatabase@Base 0
+ XrmGetFileDatabase@Base 0
+ XrmGetResource@Base 0
+ XrmGetStringDatabase@Base 0
+ XrmInitialize@Base 0
+ XrmLocaleOfDatabase@Base 0
+ XrmMergeDatabases@Base 0
+ XrmParseCommand@Base 0
+ XrmPermStringToQuark@Base 0
+ _XCreateMutex_fn@Base 0
+ (arch-bits=64) _XData32@Base 0
+ _XDefaultError@Base 0
+ _XDefaultIOError@Base 0
+ (optional) _XDefaultOpenIM@Base 0 1
+ (optional) _XDefaultOpenOM@Base 0 1
+ _XDefaultWireError@Base 0
+ _XDeq@Base 0
+ _XDeqAsyncHandler@Base 0
+ _XEatData@Base 0
+ _XEatDataWords@Base 2:1.6.0
+ _XEnq@Base 0
+ _XError@Base 0
+ _XErrorFunction@Base 0
+ _XEventToWire@Base 0
+ _XEventsQueued@Base 0
+ (optional) _XFetchEventCookie@Base 2:1.2.99.901
+ _XFlush@Base 0
+ _XFlushGCCache@Base 0
+ (optional) _XFreeAtomTable@Base 0 1
+ (optional) _XFreeDisplayLock_fn@Base 0 1
+ (optional) _XFreeDisplayStructure@Base 0 1
+ _XFreeEventCookies@Base 2:1.2.99.901
+ _XFreeExtData@Base 0
+ _XFreeMutex_fn@Base 0
+ (optional) _XFreeX11XCBStructure@Base 0 1
+ _XGetAsyncData@Base 0
+ _XGetAsyncReply@Base 0
+ _XGetBitsPerPixel@Base 0
+ _XGetHostname@Base 0
+ (optional) _XGetLCValues@Base 0 1
+ _XGetRequest@Base 2:1.4.99.1
+ _XGetScanlinePad@Base 0
+ _XGetWindowAttributes@Base 0
+ (optional) _XHeadOfDisplayList@Base 0 1
+ (optional) _XIMCompileResourceList@Base 0 1
+ _XIOError@Base 0
+ _XIOErrorFunction@Base 0
+ (optional) _XInitDisplayLock_fn@Base 0 1
+ (optional) _XInitIM@Base 0 1
+ _XInitImageFuncPtrs@Base 0
+ _XInitKeysymDB@Base 0
+ (optional) _XInitOM@Base 0 1
+ _XIsEventCookie@Base 2:1.2.99.901
+ (optional) _XKeyInitialize@Base 0 1
+ (optional) _XKeycodeToKeysym@Base 0 1
+ (optional) _XKeysymToKeyCode@Base 0 1
+ (optional) _XKeysymToModifiers@Base 0 1
+ _XLockMutex_fn@Base 0
+ (optional) _XLookupKeysym@Base 0 1
+ (optional) _XLookupString@Base 0 1
+ (optional) _XNoticeCreateBitmap@Base 0 1
+ (optional) _XNoticePutBitmap@Base 0 1
+ (optional) _XOpenLC@Base 0 1
+ (optional) _XParseBaseFontNameList@Base 0 1
+ _XPollfdCacheAdd@Base 0
+ _XPollfdCacheDel@Base 0
+ _XPollfdCacheInit@Base 0
+ _XProcessInternalConnection@Base 0
+ _XProcessWindowAttributes@Base 0
+ _XPutBackEvent@Base 0
+ (arch-bits=64) _XRead32@Base 0
+ _XRead@Base 0
+ _XReadEvents@Base 0
+ _XReadPad@Base 0
+ (optional) _XRefreshKeyboardMapping@Base 0 1
+ _XRegisterFilterByMask@Base 0
+ _XRegisterFilterByType@Base 0
+ _XRegisterInternalConnection@Base 0
+ _XReply@Base 0
+ _XReverse_Bytes@Base 0
+ _XScreenOfWindow@Base 0
+ _XSend@Base 0
+ _XSetClipRectangles@Base 0
+ _XSetImage@Base 0
+ _XSetLastRequestRead@Base 0
+ _XStoreEventCookie@Base 2:1.2.99.901
+ _XTextHeight16@Base 0
+ _XTextHeight@Base 0
+ (optional) _XTranslateKey@Base 0 1
+ (optional) _XTranslateKeySym@Base 0 1
+ (optional) _XTryShapeBitmapCursor@Base 0 1
+ _XUnknownCopyEventCookie@Base 2:1.2.99.901
+ _XUnknownNativeEvent@Base 0
+ _XUnknownWireEvent@Base 0
+ _XUnknownWireEventCookie@Base 2:1.2.99.901
+ _XUnlockMutex_fn@Base 0
+ _XUnregisterFilter@Base 0
+ _XUnregisterInternalConnection@Base 0
+ (optional) _XUnresolveColor@Base 0 1
+ (optional) _XUpdateAtomCache@Base 0 1
+ (optional) _XUpdateGCCache@Base 0 1
+ _XVIDtoVisual@Base 0
+ (optional)_XimGetWindowEventmask@Base 0 1
+ (optional)_XimICofXICID@Base 0 1
+ (optional)_XimImSportRec@Base 0 1
+ (optional)_XimInitialResourceInfo@Base 0 1
+ (optional)_XimLctstombs@Base 0 1
+ (optional)_XimLctstoutf8@Base 0 1
+ (optional)_XimLocalCreateIC@Base 0 1
+ (optional)_XimLocalFilter@Base 0 1
+ (optional)_XimLocalGetICValues@Base 0 1
+ (optional)_XimLocalGetIMValues@Base 0 1
+ (optional)_XimLocalIMFree@Base 0 1
+ (optional)_XimLocalMbLookupString@Base 0 1
+ (optional)_XimLocalOpenIM@Base 0 1
+ (optional)_XimLocalSetICValues@Base 0 1
+ (optional)_XimLocalSetIMValues@Base 0 1
+ (optional)_XimLocalUtf8LookupString@Base 0 1
+ (optional)_XimLocalWcLookupString@Base 0 1
+ (optional)_XimLookupMBText@Base 0 1
+ (optional)_XimLookupUTF8Text@Base 0 1
+ (optional)_XimLookupWCText@Base 0 1
+ (optional)_XimMakeICAttrIDList@Base 0 1
+ (optional)_XimMakeIMAttrIDList@Base 0 1
+ (optional)_XimOpenIM@Base 0 1
+ (optional)_XimParseStringFile@Base 0 1
+ (optional)_XimProcError@Base 0 1
+ (optional)_XimProcSyncReply@Base 0 1
+ (optional)_XimProtoCreateIC@Base 0 1
+ (optional)_XimProtoEventToWire@Base 0 1
+ (optional)_XimProtoIMFree@Base 0 1
+ (optional)_XimProtoMbLookupString@Base 0 1
+ (optional)_XimProtoOpenIM@Base 0 1
+ (optional)_XimProtoUtf8LookupString@Base 0 1
+ (optional)_XimProtoWcLookupString@Base 0 1
+ (optional)_XimProtoWireToEvent@Base 0 1
+ (optional)_XimRead@Base 0 1
+ (optional)_XimRegProtoIntrCallback@Base 0 1
+ (optional)_XimRegisterDispatcher@Base 0 1
+ (optional)_XimRegisterFilter@Base 0 1
+ (optional)_XimRegisterIMInstantiateCallback@Base 0 1
+ (optional)_XimRegisterServerFilter@Base 0 1
+ (optional)_XimRegisterTriggerKeysCallback@Base 0 1
+ (optional)_XimReregisterFilter@Base 0 1
+ (optional)_XimResetIMInstantiateCallback@Base 0 1
+ (optional)_XimRespSyncReply@Base 0 1
+ (optional)_XimServerDestroy@Base 0 1
+ (optional)_XimSetCurrentICValues@Base 0 1
+ (optional)_XimSetCurrentIMValues@Base 0 1
Open Source Used In Intersight Kubernetes Service 1.0.15

24832

+ (optional) _XmbDefaultTextEscapement@Base 0 1
+ (optional) _XmbDefaultTextExtents@Base 0 1
+ (optional) _XmbDefaultTextPerCharExtents@Base 0 1
+ (optional) _XmbGenericDrawImageString@Base 0 1
+ (optional) _XmbGenericDrawString@Base 0 1
+ (optional) _XmbGenericTextEscapement@Base 0 1
+ (optional) _XmbGenericTextExtents@Base 0 1
+ (optional) _XmbGenericTextPerCharExtents@Base 0 1
+ (optional) _XmbTextListToTextProperty@Base 0 1
+ (optional) _XmbTextPropertyToTextList@Base 0 1
+ _Xmblen@Base 0
+ (optional) _Xmbstoutf8@Base 0 1
+ (optional) _Xmbstowcs@Base 0 1
+ _Xmbtowc@Base 0
+ (optional) _XomConvert@Base 0 1
+ (optional) _XomGenericDrawString@Base 0 1
+ (optional) _XomGenericOpenOM@Base 0 1
+ (optional) _XomGenericTextExtents@Base 0 1
+ (optional) _XomGetFontDataFromFontSet@Base 0 1
+ (optional) _XomInitConverter@Base 0 1
+ (optional) _XrmDefaultInitParseInfo@Base 0 1
+ (optional) _XrmInitParseInfo@Base 0 1
+ (optional) _XrmInternalStringToQuark@Base 0 1
+ (optional) _Xthread_self_fn@Base 0 1
+ (optional) _Xutf8DefaultDrawImageString@Base 0 1
+ (optional) _Xutf8DefaultDrawString@Base 0 1
+ (optional) _Xutf8DefaultTextEscapement@Base 0 1
+ (optional) _Xutf8DefaultTextExtents@Base 0 1
+ (optional) _Xutf8DefaultTextPerCharExtents@Base 0 1
+ (optional) _Xutf8GenericDrawImageString@Base 0 1
+ (optional) _Xutf8GenericDrawString@Base 0 1
+ (optional) _Xutf8GenericTextEscapement@Base 0 1
+ (optional) _Xutf8GenericTextExtents@Base 0 1
+ (optional) _Xutf8GenericTextPerCharExtents@Base 0 1
+ (optional) _Xutf8TextListToTextProperty@Base 0 1
+ (optional) _Xutf8TextPropertyToTextList@Base 0 1
+ (optional) _XwcDefaultDrawImageString@Base 0 1
+ (optional) _XwcDefaultDrawString@Base 0 1
+ (optional) _XwcDefaultTextEscapement@Base 0 1
+ (optional) _XwcDefaultTextExtents@Base 0 1
+ (optional) _XwcDefaultTextPerCharExtents@Base 0 1
+ (optional) _XwcFreeStringList@Base 0 1
+ (optional) _XwcGenericDrawImageString@Base 0 1
+ (optional) _XwcGenericDrawString@Base 0 1
+ (optional) _XwcGenericTextEscapement@Base 0 1
+ (optional) _XwcGenericTextExtents@Base 0 1
+ (optional) _XwcGenericTextPerCharExtents@Base 0 1
+ (optional) _XwcTextListToTextProperty@Base 0 1

Open Source Used In Intersight Kubernetes Service 1.0.15 24832
+ (optional)_XwcTextPropertyToTextList@Base 0 1
+ (optional)_Xwcscmp@Base 0 1
+ (optional)_Xwscmpy@Base 0 1
+ (optional)_Xwslen@Base 0 1
+ (optional)_Xwscncmp@Base 0 1
+ (optional)_Xwcsncpy@Base 0 1
+ (optional)_Xwctomb@Base 0
+ (optional)_qfree@Base 0 1
+ (optional)_read_EncodingInfo@Base 0 1
+ (optional)xlocaledir@Base 0 1

--- libx11-1.6.7.orig/debian/libx11-data.install
+++ libx11-1.6.7/debian/libx11-data.install
@@ -0,0 +1,3 @@
+usr/share/X11/locale
+usr/share/X11/XErrorDB
+usr/share/man/man5

--- libx11-1.6.7.orig/debian/libx11-dev.install
+++ libx11-1.6.7/debian/libx11-dev.install
@@ -0,0 +1,4 @@
+usr/include/X11/*
+usr/lib/*/libX11.a
+usr/lib/*/libX11.so
+usr/lib/*/pkgconfig/x11.p

--- libx11-1.6.7.orig/debian/libx11-doc.install
+++ libx11-1.6.7/debian/libx11-doc.install
@@ -0,0 +1,2 @@
+usr/share/man/man3/*
+usr/share/doc/libX11/*

--- libx11-1.6.7.orig/debian/libx11-xcb-dev.install
+++ libx11-1.6.7/debian/libx11-xcb-dev.install
@@ -0,0 +1,6 @@
+usr/include/X11/Xlib-xcb.h
+usr/share/man/man3/XGetXCBConnection.3
+usr/share/man/man3/XSetEventQueueOwner.3
+usr/lib/*/libX11-xcb.a
+usr/lib/*/libX11-xcb.so
+usr/lib/*/pkgconfig/x11-xcb.p

--- libx11-1.6.7.orig/debian/libx11-xcb1.install
+++ libx11-1.6.7/debian/libx11-xcb1.install
@@ -0,0 +1 @@
+usr/lib/*/libX11-xcb.so.1*

--- libx11-1.6.7.orig/debian/patches/003_recognize_glibc_2.3.2_locale_names.diff
+++ libx11-1.6.7/debian/patches/003_recognize_glibc_2.3.2_locale_names.diff
@@ -0,0 +1,560 @@
+$Id: 011a_recognize_glibc_2.3.2_locale_names.diff 1064 2006-01-11 12:26:45Z ender $
+
+Major housecleaning of X11’s locale support.
+ Add all locales supported by version 2.3.2 of the GNU C Library except
  zh_CN.GB18030, sq_AL.ISO-8859-1, and tg_TJ.KOI8-T.  X has no support for
  the GB18030 and KOI8-T character sets, and glibc appears to disagree with
  most of the world about which character set Albanians use (see, for
  example, iso_8859-2(7)).  This baka gaijin has learned his lesson about
  trying to report l10n bugs in glibc, so I'll let someone else do the
  jousting.  :-P
+
+ Synchronize compose.dir with locale.dir wherever possible (i.e., wherever
  compose tables exist) so that as many supported locales as possible get a
  Compose map.  Comment out references to compose tables that don't
  actually exist.
+
+ Disable support for iu_CA.NUNACOM-8.  X11 doesn't have any support for
  the NUNACOM-8 character set.  (iu_CA.UTF-8 is still supported.)
+
+ Disable support for locales that are neither supported by the GNU C
  Library, nor use standard ISO 639 language or 3166 territory codes.  This
  includes Esperanto (eo_EO), and what I presume is Pennsylvania
  "Dutch" (pd_DE, pd_US).
+
+ Turn off intrusion of Nynorsk into Nyanja's ISO 639 space.  (Nynorsk is
  nn, not ny.)
+
+ Remove bogus "ee" locales for Estonian (et).
+
+ Remove ISO 8859-15 support for languages that don't use that character
  set according to glibc.
+
+ Remove @euro modifier support from locales that don't use that currency
  (i.e., countries not in the Euro zone).
+
+ Ensure we support the @euro modifier for all locales that use it
  (according to glibc), even if the codeset is explicitly specified.  See
  Debian #208137.
+
+ Alias "fi" and "fi_FI" to "fi_FI.ISO8559-1", not "fi_FI.ISO8859-15", for
  compatibility with the GNU C Library.  See Debian #266834.
+
+ Rewrite some comments to be in grammatical English.
+
+ This patch by Branden Robinson.
+ Major "forward port" by Nathanael Nerode.
+
+ Partially submitted upstream.  This is so large I don't expect it to all go in at once,
  but any bit would help.  --Nathanael
XCOMM Note that no Compose tables exist for ISO 8859-11, Microsoft code pages, Fujitsu's S90 or U90 character sets, or TIS620 yet.

++XCOMM
+ iso8859-1/Compose:C
++iso8859-1/Compose:aa_DJ.ISO8859-1
+ iso8859-1/Compose:af_ZA.ISO8859-1
++iso8859-6/Compose:ar_AA.ISO8859-6
+ iso8859-6/Compose:ar_AE.ISO8859-6
+ iso8859-6/Compose:ar_BH.ISO8859-6
+ iso8859-1/Compose:en_BW.ISO8859-1
+ iso8859-1/Compose:en_BZ.ISO8859-1
+ iso8859-1/Compose:en_CA.ISO8859-1
++iso8859-15/Compose:en_DK.ISO8859-15
++iso8859-15/Compose:en_GA.ISO8859-15
+ iso8859-15/Compose:en_GB.ISO8859-15
+ iso8859-15/Compose:en_GN.ISO8859-15
+ iso8859-15/Compose:en_IE.ISO8859-15
+ iso8859-15/Compose:en_IN.ISO8859-15
+ iso8859-15/Compose:en_UA.ISO8859-15
+ iso8859-15/Compose:en_UK.ISO8859-15
+ iso8859-15/Compose:et_EE.ISO8859-15
+ iso8859-15/Compose:et_UA.ISO8859-15
++iso8859-1/Compose:eu_ES.ISO8859-1
++iso8859-1/Compose:eu_ES.ISO8859-15
++iso8859-1/Compose:eu_FR.ISO8859-1
++iso8859-15/Compose:eu_FR.ISO8859-15
+ isir-i3342/Compose:fa_IR.ISIRI-3342
+ iso8859-1/Compose:fi_FI.ISO8859-1
+ iso8859-15/Compose:fi_FI.ISO8859-15
+ iso8859-2/Compose:hr_HR.ISO8859-2
+ iso8859-2/Compose:hu_HU.ISO8859-2
+ armSCII-8/Compose:hy_AM.ARMSCII-8
+ iso8859-1/Compose:id_ID.ISO8859-1
+ iso8859-15/Compose:id_ID.ISO8859-15

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++iso8859-1/Compose:is_IS.ISO8859-1
+ iso8859-15/Compose:is_IS.ISO8859-15
+ iso8859-1/Compose:it_CH.ISO8859-1
++iso8859-15/Compose:it_CH.ISO8859-15
+ iso8859-1/Compose:it_IT.ISO8859-1
+ iso8859-15/Compose:it_IT.ISO8859-15
+ ja/Compose:ja_JP.eucJP
+ @ @ -170,10 +170,10 @@ ja_JIS/Compose:ja_JP.JIS7
+ german-academy/Compose:ka_GE.GEORGIAN-ACADEMY
+ georgian-ps/Compose:ka_GE.GEORGIAN-PS
+ iso8859-1/Compose:kl_GL.ISO8859-1
+ iso8859-15/Compose:kl_GL.ISO8859-15
+ iso8859-1/Compose:kw_GB.ISO8859-1
+ iso8859-14/Compose:kw_GB.ISO8859-14
+ iso8859-15/Compose:kw_GB.ISO8859-15
++iso8859-10/Compose:lg_UG.ISO8859-10
+ ko/Compose:ko_KR.eucKR
+ ibm-cp1133/Compose:lo_LA.IBM-CP1133
+ mulelao-1/Compose:lo_LA.MULELAO-1
+ @ @ -202,15 +210,18 @@ iso8859-1/Compose:ny_NO.ISO8859-1
+ iso8859-15/Compose:ny_NO.ISO8859-15
+ iso8859-1/Compose:oc_FR.ISO8859-1
+ iso8859-15/Compose:oc_FR.ISO8859-15
+ iso8859-1/Compose:pd_DE.ISO8859-1
+ iso8859-15/Compose:pd_DE.ISO8859-15
+ iso8859-1/Compose:pd_US.ISO8859-1
+ iso8859-15/Compose:pd_US.ISO8859-15
++iso8859-1/Compose:om_KE.ISO8859-1
++XCOMM Presumably, "pd" is "Pennsylvania Dutch", a U.S. dialect of German.
++XCOMM This is not an ISO language code defined for it, and the GNU C Library
++XCOMM doesn't support it.
++XCOMM iso8859-1/Compose:pd_DE.ISO8859-1
++XCOMM iso8859-15/Compose:pd_DE.ISO8859-15
++XCOMM iso8859-1/Compose:pd_US.ISO8859-1
++XCOMM iso8859-15/Compose:pd_US.ISO8859-15
+ iso8859-1/Compose:ph_PH.ISO8859-1
+ iso8859-2/Compose:pl_PL.ISO8859-2
+ iso8859-1/Compose:pp_AN.ISO8859-1
+ iso8859-1/Compose:pt_BR.ISO8859-1
+ iso8859-15/Compose:pt_BR.ISO8859-15
+ iso8859-1/Compose:pt_PT.ISO8859-1
+ iso8859-15/Compose:pt_PT.ISO8859-15
+ iso8859-2/Compose:ro_RO.ISO8859-2
+ @ @ -223,6 +234,9 @@ iso8859-1/Compose:rw_RW.ISO8859-1
+ iso8859-2/Compose:sh_YU.ISO8859-2
+ iso8859-2/Compose:sk_SK.ISO8859-2
+ iso8859-2/Compose:sl_SI.ISO8859-2
++iso8859-1/Compose:so_DJ.ISO8859-1

---
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++en_US.UTF-8/XLC_LOCALE: ny_NO.UTF-8
++XCOMM ny is the language code for Nyanja (spoken in Malawi), not Nynorsk.
++XCOMM Presumably, "pd" is "Pennsylvania Dutch", a U.S. dialect of German.
++XCOMM This is not an ISO language code defined for it, and the GNU C Library
++XCOMM doesn't support it.
++XCOMM en_US.UTF-8/XLC_LOCALE: pd DE.UTF-8
++XCOMM en_US.UTF-8/XLC_LOCALE: pd_US.UTF-8
+ en_US.UTF-8/XLC_LOCALE: ph PH.UTF-8
+ en_US.UTF-8/XLC_LOCALE: pl PL.UTF-8
+ en_US.UTF-8/XLC_LOCALE: pp AN.UTF-8
+ @ -431,11 +467,13 @@ en_US.UTF-8/XLC_LOCALE:
+ en_US.UTF-8/XLC_LOCALE: sd_IN.UTF-8
+ en_US.UTF-8/XLC_LOCALE: sd_IN@devanagari.UTF-8
+ en_US.UTF-8/XLC_LOCALE: se NO.UTF-8
++en_US.UTF-8/XLC_LOCALE: sid ET.UTF-8
+ en_US.UTF-8/XLC_LOCALE: sh BA.UTF-8
+ en_US.UTF-8/XLC_LOCALE: sh YU.UTF-8
+ en_US.UTF-8/XLC_LOCALE: si LK.UTF-8
+ en_US.UTF-8/XLC_LOCALE: sk SK.UTF-8
+ en_US.UTF-8/XLC_LOCALE: sl SI.UTF-8
++en_US.UTF-8/XLC_LOCALE: so ET.UTF-8
+ en_US.UTF-8/XLC_LOCALE: sq AL.UTF-8
+ en_US.UTF-8/XLC_LOCALE: sr CS.UTF-8
+ en_US.UTF-8/XLC_LOCALE: sr ME.UTF-8
+ @ -451,6 +489,7 @@ en_US.UTF-8/XLC_LOCALE:tg TJ.UTF-8
+ th TH.UTF-8/XLC_LOCALE:th TH.UTF-8
+ en_US.UTF-8/XLC_LOCALE:ti ER.UTF-8
+ en_US.UTF-8/XLC_LOCALE:ti ET.UTF-8
++en_US.UTF-8/XLC_LOCALE: tig ER.UTF-8
+ en_US.UTF-8/XLC_LOCALE:tl PH.UTF-8
+ en_US.UTF-8/XLC_LOCALE:tn ZA.UTF-8
+ en_US.UTF-8/XLC_LOCALE:tr TR.UTF-8
--- libx11-1.6.7.orig/debian/patches/007_iso8859-15_Compose_fix.diff
+++ libx11-1.6.7/debian/patches/007_iso8859-15_Compose_fix.diff
@@ -0,0 +1,137 @@
+$Id: 019_iso8859-15_Compose_fix.diff 396 2005-07-22 21:45:02Z dnusinow $
+
+This patch by Wolfgang Sourdeau and Rüdiger Kuhlmann.
+
+Account for lack of spacing diaeresis key and codepoint.
+
+https://bugs.debian.org/97433
+
+--- a/nls/iso8859-15/Compose.pre
++++ b/nls/iso8859-15/Compose.pre
+ @@ -155,8 +155,7 @@ XCOMM Special Character
+ <Multi_key> <minus> <colon>: "$367"division
+ <Multi_key> <colon> <minus>: "$367"division
+ <Multi_key> <xx> <xx>: "$327"multiply
+ <Multi_key> <apostrophe> <apostrophe>: "$264"acute
+ <Multi_key> <comma> <comma>: "$270"cedilla
+++ libx11/nls/compose.dir.pre 2013-06-15 17:44:32.355730938 +0200
+ @ @ -484,7 +484,9 @ @
+ en_US.UTF-8/Compose:ta_IN.UTF-8
+ en_US.UTF-8/Compose:te_IN.UTF-8
+ en_US.UTF-8/Compose:tg_TJ.UTF-8
+ +XCOMM Following entry commented to allow Thai XIM as default for X apps
+ +XCOMM See Debian bug#520509
+ +XCOMM th_TH.UTF-8/Compose:th_TH.UTF-8
+ en_US.UTF-8/Compose:ti_ER.UTF-8
+ en_US.UTF-8/Compose:ti_ET.UTF-8
+ en_US.UTF-8/Compose:tig_ER.UTF-8
--- libx11-1.6.7.orig/debian/patches/015_russian_locale_alias.diff
+++ libx11-1.6.7/debian/patches/015_russian_locale_alias.diff
@@ -0,0 +1,25 @@
+ Fix russian locale. Closes: #368655.
+ +This aligns with the glibc definition in /usr/share/locale/locale.alias.
+ +This only applies to Debian's glibc, see bug #62586 and glibc 2.2.5-4.
+ +For the same glibc reason, we cannot change ru and ru_RU away from ISO8859-5,
+ +since that encoding is enshrined in /usr/share/i18n/locales/ru_RU. Insert
+ +appropriate perjorative language here.
+ +Suggestion: can the russian default be changed to UTF-8 instead of KOI8-R?
+ +This will make it easier for russians to fit in with the rest of the world.
+ +Index: libx11/nls/locale.alias.pre
+===================================================================
--- libx11-1.6.7.orig/nls/locale.alias.pre 2013-06-15 17:53:12.467725093 +0200
@@ -1274,7 +1274,7 @@
     -russian:				ru_RU.ISO8859-5
     serbocroatian:				sr_RS.UTF-8@latin
     sinhala:				si_LK.UTF-8
--- libx11-1.6.7.orig/debian/patches/series
+++ libx11-1.6.7/debian/patches/series
@@ -0,0 +1,5 @@
+003_recognize_glibc_2.3.2locale_names.diff
+007_iso8859-15_Compose_fix.diff
+008_remove_ko_Compose.diff
+009_remove_th_Compose.diff
+015_russian_locale_alias.diff
1.2189 path-is-inside 1.0.2

1.2189.1 Available under license:

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1.2190 golang-org-x-oauth2 0.0.0-
20210819190943-2bc19b11175f
1.2190.1 Available under license :

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1.2191 python3-netifaces 0.10.4 0.1build4

1.2191.1 Available under license:

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: netifaces
Source: https://pypi.python.org/pypi/netifaces

Files: debian/*
Copyright: (c) 2008-2013, Mario Izquierdo (mariodebian) <mariodebian@gmail.com>
(c) 2014, Thomas Goirand <zigo@debian.org>
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Files: *
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1.2194 err-code 1.1.2

1.2194.1 Available under license :

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Found in path(s):
* /opt/cola/permits/1108551067_1606176360.95/0/err-code-1-1-2-2-tgz/package/README.md

1.2195 libnetfilter-conntrack 1.0.6-5.el8

1.2195.1 Available under license :

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To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

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MA

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* Date: Wed, 28 May 2003 10:55:44 -0700
* Cc: Steve Langasek <vorlon@netexpress.net>, debian-legal@lists.debian.org, openldap-devel@OpenLDAP.org
* In-reply-to: <20030528162613.GB8524@ns.snowman.net>
* Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>
* Old-return-path: <Kurt@OpenLDAP.org>

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1.2234 cgroupfs-mount 1.4
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1.2243 gololang-org-x-sys 0.0.0-
20191220220014-0732a990476f

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1.2244 libcom-err 1.46.2-r0

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

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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# 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)

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:

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

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
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
-
- Copyright (C) Andrew Tridgell 2005
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Theodore Ts'o
23-June-2007

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It is part of the main e2fsprogs distribution, which can be found at:

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Gadi Oxman, August 1995

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import: ../../../../fossene/db/schema/thing.yml

fields:
site: string
author: root

1.2246 istio 1.11.4

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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import (    core "github.com/envoyproxy/go-control-plane/envoy/config/core/v3"    rbacpb "github.com/envoyproxy/go-control-plane/envoy/config/rbac/v3"    routepb "github.com/envoyproxy/go-control-plane/envoy/config/route/v3"    matcherpb "github.com/envoyproxy/go-control-plane/envoy/type/matcher/v3" )

func permissionAny() *rbacpb.Permission {    return &rbacpb.Permission{        Rule: &rbacpb.Permission_Any{            Any: true,        },    }
}

}
func permissionOr(perm []*rbacpb.Permission) *rbacpb.Permission {
    return &rbacpb.Permission{
        Rule: &rbacpb.Permission.OrRules{
            OrRules: &rbacpb.Permission.Set{
                Rules: perm,
            },
        },
    }
}

func permissionNot(perm *rbacpb.Permission) *rbacpb.Permission {
    return &rbacpb.Permission{
        Rule: &rbacpb.Permission.NotRule{
            NotRule: perm,
        },
    }
}

func permissionDestinationIP(cidr *core.CidrRange) *rbacpb.Permission {
    return &rbacpb.Permission{
        Rule: &rbacpb.Permission.DestinationIp{
            DestinationIp: cidr,
        },
    }
}

func permissionDestinationPort(port uint32) *rbacpb.Permission {
    return &rbacpb.Permission{
        Rule: &rbacpb.Permission.DestinationPort{
            DestinationPort: port,
        },
    }
}

func permissionRequestedServerName(name *matcherpb.StringMatcher) *rbacpb.Permission {
    return &rbacpb.Permission{
        Rule: &rbacpb.Permission.RequestedServerName{
            RequestedServerName: name,
        },
    }
}

func permissionMetadata(metadata *matcherpb.MetadataMatcher) *rbacpb.Permission {
    return &rbacpb.Permission{
        Rule: &rbacpb.Permission.Metadata{
            Metadata: metadata,
        },
    }
}
func permissionHeader(header *routerpb.HeaderMatcher) *rbacpb.Permission {
    return &rbacpb.Permission{
        Rule: &rbacpb.Permission_Header{
            Header: header,
        },
    }
}

func permissionPath(path *matcherpb.PathMatcher) *rbacpb.Permission {
    return &rbacpb.Permission{
        Rule: &rbacpb.Permission_UrlPath{
            UrlPath: path,
        },
    }
}

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apiVersion: release-notes/v2
kind: bug-fix
area: telemetry
issue: - 29919
releaseNotes: - |
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1.2261 stringify-package 1.0.1

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Written by: Philip Hazel
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1.2282 @graphql-tools/mock 8.4.1

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1.2284 azure-pipeline-go 0.2.3

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1.2285 libglibdata 2.56.4 0ubuntu0.18.04.8

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

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[This is the first released version of the library GPL. It is
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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 libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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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 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
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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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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.)

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#     http://code.google.com/legal/individual-cla-v1.0.html
#
# The agreement for individuals can be filled out on the web.

# Names should be added to this file like so:
#   Individual's name <submission email address>
#   Individual's name <submission email address> <email2> <emailN>
#
# An entry with multiple email addresses specifies that the
# first address should be used in the submit logs and
# that the other addresses should be recognized as the
# same person when interacting with Gerrit.

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1.2312 google-auth 2.3.3

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1.2315 wcwidth 1.0.1

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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.

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

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| DNS resolver (dirmngr/dns.c) |

dns.c - Recursive, Reentrant DNS Resolver.

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1.2324 clientmodel 0.2.0

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1.2325 klog 2.3.0

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1.2326 python3-setuptools-wheel 39.2.0-6.el8

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1.2327 mmap-go 1.0.0

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1.2330 k8s-io-apimachinery 0.22.1

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1.2331 base-files 11.1+deb11u1

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That's all there is to it!

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Version 3, 29 June 2007

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appropriate parts of the General Public License.  Of course, the
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You should also get your employer (if you work as a programmer) or your
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    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

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1.2333 perl-constant 1.33-396.el8

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=head1 NAME
constant - Perl pragma to declare constants

=head1 SYNOPSIS

use constant PI => 4 * atan2(1, 1);
use constant DEBUG => 0;

print "Pi equals ", PI, "...\n" if DEBUG;

use constant {
  SEC => 0,
  MIN => 1,
  HOUR => 2,
  MDAY => 3,
  MON => 4,
  YEAR => 5,
  WDAY => 6,
  YDAY => 7,
  ISDST => 8,
};

use constant WEEKDAYS => qw(
  Sunday Monday Tuesday Wednesday Thursday Friday Saturday
);)

print "Today is ", (WEEKDAYS)[ (localtime)[WDAY] ], "\n";

=head1 DESCRIPTION
This pragma allows you to declare constants at compile-time.

When you declare a constant such as \texttt{C<PI>} using the method shown above, each machine your script runs upon can have as many digits of accuracy as it can use. Also, your program will be easier to read, more likely to be maintained (and maintained correctly), and far less likely to send a space probe to the wrong planet because nobody noticed the one equation in which you wrote \texttt{C<3.14195>}

When a constant is used in an expression, Perl replaces it with its value at compile time, and may then optimize the expression further. In particular, any code in an \texttt{C<if (CONSTANT)>>} block will be optimized away if the constant is false.

=head1 NOTES

As with all \texttt{C<use>} directives, defining a constant happens at compile time. Thus, it's probably not correct to put a constant declaration inside of a conditional statement (like \texttt{C<if ($foo) \{ use constant ... \}>}).

Constants defined using this module cannot be interpolated into strings like variables. However, concatenation works just fine:

\begin{verbatim}
    print "Pi equals PI...\n";  # WRONG: does not expand "PI"
    print "Pi equals ".PI."...\n";  # right
\end{verbatim}

Even though a reference may be declared as a constant, the reference may point to data which may be changed, as this code shows.

\begin{verbatim}
    use constant ARRAY => [ 1,2,3,4 ];
    print ARRAY->[1];
    ARRAY->[1] = " be changed";
    print ARRAY->[1];
\end{verbatim}

Dereferencing constant references incorrectly (such as using an array subscript on a constant hash reference, or vice versa) will be trapped at compile time.

Constants belong to the package they are defined in. To refer to a constant defined in another package, specify the full package name, as in \texttt{C<Some::Package::CONSTANT>}. Constants may be exported by modules, and may also be called as either class or instance methods, that is, as \texttt{C<< Some::Package->CONSTANT >>} or as \texttt{C<< $obj->CONSTANT >>} where \texttt{C<$obj>} is an instance of \texttt{C<Some::Package>}. Subclasses may define their own constants to override those in their base class.
The use of all caps for constant names is merely a convention, although it is recommended in order to make constants stand out and to help avoid collisions with other barewords, keywords, and subroutine names. Constant names must begin with a letter or underscore. Names beginning with a double underscore are reserved. Some poor choices for names will generate warnings, if warnings are enabled at compile time.

=head2 List constants

Constants may be lists of more (or less) than one value. A constant with no values evaluates to C<undef> in scalar context. Note that constants with more than one value do I<not> return their last value in scalar context as one might expect. They currently return the number of values, but B<this may change in the future>. Do not use constants with multiple values in scalar context.

B<NOTE:> This implies that the expression defining the value of a constant is evaluated in list context. This may produce surprises:

    use constant TIMESTAMP => localtime;       # WRONG!
    use constant TIMESTAMP => scalar localtime; # right

The first line above defines C<TIMESTAMP> as a 9-element list, as returned by C<localtime()> in list context. To set it to the string returned by C<localtime()> in scalar context, an explicit C<scalar> keyword is required.

List constants are lists, not arrays. To index or slice them, they must be placed in parentheses.

    my @workdays = WEEKDAYS[1 .. 5];            # WRONG!
    my @workdays = (WEEKDAYS)[1 .. 5];          # right

=head2 Defining multiple constants at once

Instead of writing multiple C<use constant> statements, you may define multiple constants in a single statement by giving, instead of the constant name, a reference to a hash where the keys are the names of the constants to be defined. Obviously, all constants defined using this method must have a single value.

    use constant {
        FOO => "A single value",
        BAR => "This", "won't", "work!", # Error!
    };

This is a fundamental limitation of the way hashes are constructed in
Perl. The error messages produced when this happens will often be quite cryptic -- in the worst case there may be none at all, and you'll only later find that something is broken.

When defining multiple constants, you cannot use the values of other constants defined in the same declaration. This is because the calling package doesn't know about any constant within that group until I<after> the C<use> statement is finished.

use constant {
    BITMASK => 0xAFBAEBA8,
    NEGMASK => ~BITMASK,                   # Error!
};

=head2 Magic constants

Magical values and references can be made into constants at compile time, allowing for way cool stuff like this. (These error numbers aren't totally portable, alas.)

use constant E2BIG => ($! = 7);
print   E2BIG, "\n";       # something like "Arg list too long"
print 0+E2BIG, "\n";       # "7"

You can't produce a tied constant by giving a tied scalar as the value. References to tied variables, however, can be used as constants without any problems.

=head1 TECHNICAL NOTES

In the current implementation, scalar constants are actually inlinable subroutines. As of version 5.004 of Perl, the appropriate scalar constant is inserted directly in place of some subroutine calls, thereby saving the overhead of a subroutine call. See L<perlsub/"Constant Functions"> for details about how and when this happens.

In the rare case in which you need to discover at run time whether a particular constant has been declared via this module, you may use this function to examine the hash C<%constant::declared>. If the given constant name does not include a package name, the current package is used.

sub declared ($) {
    use constant 1.01;              # don't omit this!
    my $name = shift;
    $name =~ s/^::/main::/;
    my $pkg = caller;
    ...}
my $full_name = $name =~ /::/ ? $name : "${pkg}::$name";
$constant::declared{$full_name};
}

=head1 CAVEATS

In the current version of Perl, list constants are not inlined
and some symbols may be redefined without generating a warning.

It is not possible to have a subroutine or a keyword with the same
name as a constant in the same package. This is probably a Good Thing.

A constant with a name in the list C<STDIN STDOUT STDERR ARGV ARGVOUT
ENV INC SIG> is not allowed anywhere but in package C<main::>, for
technical reasons.

Unlike constants in some languages, these cannot be overridden
on the command line or via environment variables.

You can get into trouble if you use constants in a context which
automatically quotes barewords (as is true for any subroutine call).
For example, you can't say C<$hash{CONSTANT}> because C<CONSTANT> will
be interpreted as a string. Use C<$hash{CONSTANT()}> or
C<$hash{+CONSTANT}> to prevent the bareword quoting mechanism from
kicking in. Similarly, since the C<< => >> operator quotes a bareword
immediately to its left, you have to say C<< CONSTANT() => 'value' >>
(or simply use a comma in place of the big arrow) instead of
C<< CONSTANT => 'value' >>.

=head1 SEE ALSO

L<Readonly> - Facility for creating read-only scalars, arrays, hashes.

L<Attribute::Constant> - Make read-only variables via attribute

L<Scalar::Readonly> - Perl extension to the C<SvREADONLY> scalar flag

L<Hash::Util> - A selection of general-utility hash subroutines (mostly
to lock/unlock keys and values)

=head1 BUGS

Please report any bugs or feature requests via the perlbug(1) utility.

=head1 AUTHORS

Tom Phoenix, E<lt>F<rootbeer@redcat.com>E<gt>, with help from
many other folks.
Multiple constant declarations at once added by Casey West,
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Documentation mostly rewritten by Ilmari Karonen,
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This program is maintained by the Perl 5 Porters.
The CPAN distribution is maintained by SE<acute>bastien Aperghis-Tramoni
E<lt>F<sebastien@aperghis.net>E<gt>.

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* /opt/cola/permits/1185063603_1627671318.61/0/perl-constant-1.33-396.el8-1.src.rpm-cosi-expand-archive-
NFrHOe0P/constant-1.27.tar.gz-cosi-expand-archive-GT1UJdB4/constant-1.27/lib/constant.pm

No license file was found, but licenses were detected in source scan.

---
abstract: 'Perl pragma to declare constants'
author:
- 'SÁ©bastien Aperghis-Tramoni <sebastien@aperghis.net>'
build_requires:
  Test::More: 0
configure_requires:
  Module::Build: 0.2808
dynamic_config: 1
generated_by: 'Module::Build version 0.4003, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: constant
provides:
  constant:
    file: lib/constant.pm
    version: 1.27
resources:
  license: http://dev.perl.org/licenses/
  version: 1.27
NAME

constant - Perl pragma to declare constants

DESCRIPTION

This pragma allows you to declare constants at compile-time.

When a constant is used in an expression, Perl replaces it with its value at compile time, and may then optimize the expression further. In particular, any code in an "if (CONSTANT)" block will be optimized away if the constant is false.

INSTALLATION

To install this module, run the following commands:

    perl Makefile.PL
    make
    make test
    make install

Alternatively, to install with Module::Build, you can use the following commands:

    perl Build.PL
    ./Build
    ./Build test
    ./Build install

SUPPORT AND DOCUMENTATION

After installing, you can find documentation for this module with the perldoc command.

    perldoc constant

You can also look for information at:

    Search CPAN
http://search.cpan.org/dist/constant

CPAN Request Tracker:
http://rt.cpan.org/Dist/Display.html?Name=constant

AnnoCPAN, annotated CPAN documentation:
http://annocpan.org/dist/constant

CPAN Ratings:
http://cpanratings.perl.org/d/constant

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1.2334 har-schema 2.0.0
1.2334.1 Available under license:
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1.2339 github.com/go-kit/log 0.1.0

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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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https-proxy-agent
================
### An HTTP(s) proxy `http.Agent` implementation for HTTPS

[![Build Status](https://travis-ci.org/TooTallNate/node-https-proxy-agent.svg?branch=master)](https://travis-ci.org/TooTallNate/node-https-proxy-agent)

This module provides an `http.Agent` implementation that connects to a specified HTTP or HTTPS proxy server, and can be used with the built-in `http` module.

Specifically, this `Agent` implementation connects to an intermediary "proxy" server and issues the [CONNECT HTTP method][CONNECT], which tells the proxy to open a direct TCP connection to the destination server.

Since this agent implements the CONNECT HTTP method, it also works with other protocols that use this method when connecting over proxies (i.e. WebSockets). See the "Examples" section below for more.

Installation
------------
Install with `npm`:

```bash
$ npm install https-proxy-agent
```

---
Examples
--------

``` js
var url = require('url');
var https = require('https');
var HttpsProxyAgent = require('https-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// HTTPS endpoint for the proxy to connect to
console.log('attempting to GET %j', endpoint);
var options = url.parse(endpoint);

// create an instance of the `HttpsProxyAgent` class with the proxy server information
var agent = new HttpsProxyAgent(proxy);
options.agent = agent;

https.get(options, function (res) {
    console.log('"response" event!', res.headers);
    res.pipe(process.stdout);
});
```

``` js
var url = require('url');
var WebSocket = require('ws');
var HttpsProxyAgent = require('https-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// HTTPS endpoint for the proxy to connect to
var endpoint = process.argv[2] || 'ws://echo.websocket.org';
console.log('attempting to connect to WebSocket %j', endpoint);
var parsed = url.parse(endpoint);

// create an instance of the `HttpsProxyAgent` class with the proxy server information
var agent = new HttpsProxyAgent(proxy);
options.agent = agent;
```

``` js
var url = require('url');
var WebSocket = require('ws');
var HttpsProxyAgent = require('https-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// WebSocket endpoint for the proxy to connect to
var endpoint = process.argv[2] || 'ws://echo.websocket.org';
var parsed = url.parse(endpoint);
console.log('attempting to connect to WebSocket %j', endpoint);
```

``` js
var url = require('url');
var WebSocket = require('ws');
var HttpsProxyAgent = require('https-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// WebSocket endpoint for the proxy to connect to
var endpoint = process.argv[2] || 'ws://echo.websocket.org';
var parsed = url.parse(endpoint);
console.log('attempting to connect to WebSocket %j', endpoint);
```

``` js
var url = require('url');
var WebSocket = require('ws');
var HttpsProxyAgent = require('https-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// WebSocket endpoint for the proxy to connect to
var endpoint = process.argv[2] || 'ws://echo.websocket.org';
var parsed = url.parse(endpoint);
console.log('attempting to connect to WebSocket %j', endpoint);
```

``` js
var url = require('url');
var WebSocket = require('ws');
var HttpsProxyAgent = require('https-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// WebSocket endpoint for the proxy to connect to
var endpoint = process.argv[2] || 'ws://echo.websocket.org';
var parsed = url.parse(endpoint);
console.log('attempting to connect to WebSocket %j', endpoint);
```

``` js
var url = require('url');
var WebSocket = require('ws');
var HttpsProxyAgent = require('https-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// WebSocket endpoint for the proxy to connect to
var endpoint = process.argv[2] || 'ws://echo.websocket.org';
var parsed = url.parse(endpoint);
console.log('attempting to connect to WebSocket %j', endpoint);
```
var options = url.parse(proxy);

var agent = new HttpsProxyAgent(options);

// finally, initiate the WebSocket connection
var socket = new WebSocket(endpoint, { agent: agent });

socket.on('open', function () {
  console.log('"open" event!');
  socket.send('hello world');
});

socket.on('message', function (data, flags) {
  console.log('"message" event! %j %j', data, flags);
  socket.close();
});

API
---

### new HttpsProxyAgent(Object options)

The `HttpsProxyAgent` class implements an `http.Agent` subclass that connects to the specified "HTTP(s) proxy server" in order to proxy HTTPS and/or WebSocket requests. This is achieved by using the [HTTP `CONNECT` method][CONNECT].

The `options` argument may either be a string URI of the proxy server to use, or an "options" object with more specific properties:

* `host` - String - Proxy host to connect to (may use `hostname` as well). Required.
* `port` - Number - Proxy port to connect to. Required.
* `protocol` - String - If `https:`, then use TLS to connect to the proxy.
* `headers` - Object - Additional HTTP headers to be sent on the HTTP CONNECT method.
* Any other options given are passed to the `net.connect()`/`tls.connect()` functions.

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[CONNECT]: http://en.wikipedia.org/wiki/HTTP_tunnel#HTTP_CONNECT_Tunneling

Found in path(s):
* /opt/cola/permits/1108551829_1606175518.72/0/https-proxy-agent-2-2-4-5-tgz/package/README.md

1.2347 libgnutls 3.6.7-4+deb10u3
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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `"name":"the name","url":"the url"`
    const licenseYAML = "name: the name\nurl: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertSerializeYAML(t, license, licenseYAML)
    assertParsesJSON(t, licenseJSON, license)
    assertParsesYAML(t, licenseYAML, license)
}

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

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It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
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1.2351 pump 2.0.1

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This is free software, and you are welcome to redistribute it
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1.2354 atomic-sleep 1.0.0
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1.2357 perl-threads-shared 1.58-2.el8

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/*
--------------------------------------------------------------

ppport.h -- Perl/Pollution/Portability Version 3.19

Automatically created by Devel::PPPort running under perl 5.010000.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

--------------------------------------------------------------

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.19

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help

--version show version

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options

--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments

--quiet don't output anything except fatal errors
--nodiag  
don't show diagnostics

--nohints  
don't show hints

--nochanges  
don't suggest changes

--nofilter  
don't filter input files

--strip  
strip all script and doc functionality from ppport.h

--list-provided  
list provided API

--list-unsupported  
list unsupported API

--api-info=name  
show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.10.0.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>
Manually set the diff program and options to use. The default is to use `C<Text::Diff>`, when installed, and output unified context diffs.

```
=head2 --compat-version=I<version>
```

Tell `F<ppport.h>` to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of `F<ppport.h>` if you intend to be backward compatible only down to a certain Perl version.

```
=head2 --cplusplus
```

Usually, `F<ppport.h>` will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs `F<ppport.h>` to leave C++ comments untouched.

```
=head2 --quiet
```

Be quiet. Don't print anything except fatal errors.

```
=head2 --nodiag
```

Don't output any diagnostic messages. Only portability alerts will be printed.

```
=head2 --nohints
```

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

```
=head2 --nochanges
```

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

```
=head2 --nofilter
```

Don't filter the list of input files. By default, files not looking like source code (i.e. not `*.xs`, `*.c`, `*.cc`, `*.cpp` or `*.h`) are skipped.

```
=head2 --strip
```

Strip all script and documentation functionality from `F<ppport.h>`.
This reduces the size of `F<ppport.h>` dramatically and may be useful if you want to include `F<ppport.h>` in smaller modules without
increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

    perl pport.h --list-provided

   to see which API elements are provided by pport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.
If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more \texttt{C<#define>\texttt{s}} in your source code before the inclusion of \texttt{F<ppport.h>}. These functions or variables will be marked \texttt{C<explicit>} in the list shown by \texttt{C<--list-provided>}. Depending on whether you module has a single or multiple files that use such functions or variables, you want either \texttt{C<static>} or global variants. For a \texttt{C<static>} function or variable (used only in a single source file), use:

\begin{verbatim}
#define NEED_function
#define NEED_variable
\end{verbatim}

For a global function or variable (used in multiple source files), use:

\begin{verbatim}
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
\end{verbatim}

Note that you mustn't have more than one global request for the same function or variable in your project.

\begin{table}[h]
\centering
\begin{tabular}{lll}
\hline
Function / Variable & Static Request & Global Request \\
\hline
\texttt{PL\_parser} & \texttt{NEED\_PL\_parser} & \texttt{NEED\_PL\_parser\_GLOBAL} \\
\texttt{PL\_signals} & \texttt{NEED\_PL\_signals} & \texttt{NEED\_PL\_signals\_GLOBAL} \\
eval\_pv() & \texttt{NEED\_eval\_pv} & \texttt{NEED\_eval\_pv\_GLOBAL} \\
grok\_bin() & \texttt{NEED\_grok\_bin} & \texttt{NEED\_grok\_bin\_GLOBAL} \\
grok\_hex() & \texttt{NEED\_grok\_hex} & \texttt{NEED\_grok\_hex\_GLOBAL} \\
grok\_number() & \texttt{NEED\_grok\_number} & \texttt{NEED\_grok\_number\_GLOBAL} \\
grok\_numeric\_radix() & \texttt{NEED\_grok\_numeric\_radix} & \texttt{NEED\_grok\_numeric\_radix\_GLOBAL} \\
grok\_oct() & \texttt{NEED\_grok\_oct} & \texttt{NEED\_grok\_oct\_GLOBAL} \\
load\_module() & \texttt{NEED\_load\_module} & \texttt{NEED\_load\_module\_GLOBAL} \\
my\_snprintf() & \texttt{NEED\_my\_snprintf} & \texttt{NEED\_my\_snprintf\_GLOBAL} \\
my\_sprintf() & \texttt{NEED\_my\_sprintf} & \texttt{NEED\_my\_sprintf\_GLOBAL} \\
my\_strlcat() & \texttt{NEED\_my\_strlcat} & \texttt{NEED\_my\_strlcat\_GLOBAL} \\
my\_strlcpy() & \texttt{NEED\_my\_strlcpy} & \texttt{NEED\_my\_strlcpy\_GLOBAL} \\
n\texttt{ewCONSTSUB}() & \texttt{NEED\_newCONSTSUB} & \texttt{NEED\_newCONSTSUB\_GLOBAL} \\
n\texttt{ewRV\_noinc}() & \texttt{NEED\_newRV\_noinc} & \texttt{NEED\_newRV\_noinc\_GLOBAL} \\
n\texttt{ewSV\_type}() & \texttt{NEED\_newSV\_type} & \texttt{NEED\_newSV\_type\_GLOBAL} \\
\hline
\end{tabular}
\end{table}
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```c
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

```perl
perl ppport.h
```

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:
perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions for changes, use:

perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function, use:

perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

perl ppport.h --api-info=/./

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:
The complete output from running "perl -V"

This file.

The name and version of the module you were trying to build.

A full log of the build that failed.

Any other information that you think could be relevant.

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2009, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

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=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '{^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }
my $VERSION = 3.19;

my %opt = (quiet => 0, diag => 1, hints => 1, changes => 1, cplusplus => 0, filter => 1, strip => 0, version => 0);

my($ppport) = $0 =~ /\[[\w.]+\]/;
my $LF = '(?:\r\n|\[\r\n\])'; # line feed
my $HS = '^[ \t]'; # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/\*.*\*/';
my $cce = '\*\/*';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
  require Getopt::Long;
  Getopt::Long::GetOptions(%opt, qw(
    help quiet diag! filter! hints! changes! cplusplus strip version
    patch=s copy=s diff=s compat-version=s
    list-provided list-unsupported api-info=s
  )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
  usage() if "$ARGV" =~ /-?[hH]elp$/;
  die "Getopt::Long not found. Please don't use any options.\n";
}

if ($opt{version}) {
  print "This is $0 $VERSION.\n";
  exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
  my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
}
if ($@) {
  die "Invalid version number format: '$opt{'compat-version'}'\n";
}

die "Only Perl 5 is supported\n" if $r != 5;
die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;

$opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
}
else {
  $opt{'compat-version'} = 5;
}

my %API = map { /\^\(w+)\[(\[^|\]*)\]|(\[^|\]*)\]|(\[^|\]*)\]|(w*)$/
  ? ( $1 => {
    ($2 ? ( base => $2 ) : ()),
    ($3 ? ( todo => $3 ) : ()),
    (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
    (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
    (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ())
  } ) : die "invalid spec: $_" } qw(
  AvFILLp5.004050||p
  AvFILL||
  CLASS||n
  CPERLscope5.005000||p
  CX_CURPAD_SAVE||
  CX_CURPAD_SV||
  CopFILEAV5.006000||p
  CopFILEGV_set5.006000||p
  CopFILEGV5.006000||p
  CopFILESV5.006000||p
  CopFILE_set5.006000||p
  CopFILE5.006000||p
  CopSTASHPV_set5.006000||p
  CopSTASHPV5.006000||p
  CopSTASH_eq5.006000||p
  CopSTASH_set5.006000||p
  CopSTASH5.006000||p
  CopyD5.009002||p
  Copy||
  CvPADLIST||
  CvSTASH||
  CvWEAKOUTSIDE||
  DEFSV_set5.011000||p
  DEFSV5.004050||p
  END_EXTERN_C5.005000||p
  ENTER||
  ERRSV5.004050||p
  EXTEND||

Open Source Used In Intersight Kubernetes Service 1.0.15 26216
PTR2nat[5.009003]|p
PTR2ul[5.007001]|p
PTRV[5.006000]|p
PUSHMARK||
PUSH_MULTICALL[5.011000]
PUSHi||
PUSHmortal[5.009002]|p
PUSHn||
PUSHp||
PUSHs||
PUSHu[5.004000]|p
PUTBACK||
PerlIO_clearerr[5.007003]
PerlIO_close[5.007003]
PerlIO_context_layers[5.009004]
PerlIO_eof[5.007003]
PerlIO_error[5.007003]
PerlIO_fileno[5.007003]
PerlIO_fill[5.007003]
PerlIO_flush[5.007003]
PerlIO_get_base[5.007003]
PerlIO_get_bufsiz[5.007003]
PerlIO_get_cnn[5.007003]
PerlIO_get_ptr[5.007003]
PerlIO_read[5.007003]
PerlIO_seek[5.007003]
PerlIO_set_cnn[5.007003]
PerlIO_set_ptrcn[5.007003]
PerlIO_setlinebuf[5.007003]
PerlIO_stderr[5.007003]
PerlIO_stderr[5.007003]
PerlIO_stdout[5.007003]
PerlIO_tell[5.007003]
PerlIO_unread[5.007003]
PerlIO_write[5.007003]
Perl_signbit[5.009005]|n
PoisonFree[5.009004]|p
PoisonNew[5.009004]|p
PoisonWith[5.009004]|p
Poison[5.008000]|p
RETVAl||n
Renewc||
Renew||
SAVECLEARSV||
SAVECOMPPAD||
SAVEPADSV||
SAVETMPS||
SAVE_DEFSV[5.004050]|p
SvIV_nomg[5.009001]\p
SvIV_set\||
SvIVx||
SvIV||
SvIsCOW_shared_hash[5.008003]
SvIsCOW[5.008003]
SvLEN_set||
SvLEN||
SvLOCK[5.007003]
SvMAGIC_set[5.009003]\p
SvNIOK_off\||
SvNIOKp||
SvNIOK||
SvNOK_off||
SvNOK_only\||
SvNOK_on||
SvNOKp||
SvNVX||
SvNV_set\||
SvNVx||
SvNV||
SvOK||
SvOOK_offset[5.011000]
SvOOK||
SvPOK_off\||
SvPOK_only_UTF8[5.006000]
SvPOK_only\||
SvPOK_on||
SvPOKp||
SvPOK||
SvPVX_const[5.009003]\p
SvPVX_mutable[5.009003]\p
SvPVX||
SvPV_const[5.009003]\p
SvPV_flags_const_nolen[5.009003]\p
SvPV_flags_const[5.009003]\p
SvPV_flags_mutable[5.009003]\p
SvPV_flags[5.007002]\p
SvPV_flags force_mutable[5.009003]\p
SvPV_force_flags_mutable[5.009003]\p
SvPV_force_flags_nolen[5.009003]\p
SvPV_force_flags[5.007002]\p
SvPV_force_mutable[5.009003]\p
SvPV_force[5.007002]\p
SvPV_force_nomg[5.009003]\p
SvPV_force_nomg_nolen[5.009003]\p
SvPV_force_nomg[5.007002]\p
SvPV_force||\p
SvPV_mutable[5.009003]\p
SvPV_nolen_const|5.009003||p
SvPV_nolen|5.006000||p
SvPV_nomg_const_nolen|5.009003||p
SvPV_nomg_const|5.009003||p
SvPV_nomg|5.007002||p
SvPV_renew|5.009003||p
SvPV_set|||
SvPVbyte_force|5.009002|
SvPVbyte_nolen|5.006000|
SvPVbyte_force|5.006000|
SvPVbyte|5.006000|
SvPVbyte|5.006000|
SvPVutf8_force|5.006000|
SvPVutf8_nolen|5.006000|
SvPVutf8x_force|5.006000|
SvPVutf8x|5.006000|
SvPVutf8|5.006000|
SvPVS|x|||
SvPV||
SvREFCNT_dec|||
SvREFCNT_inc_NN|5.009004||p
SvREFCNT_inc_simple_NN|5.009004||p
SvREFCNT_inc_simple_void_NN|5.009004||p
SvREFCNT_inc_simple_void|5.009004||p
SvREFCNT_inc_simple|5.009004||p
SvREFCNT_inc_void_NN|5.009004||p
SvREFCNT_inc_void|5.009004||p
SvREFCNT_inc||p
SvREFCNT|||
SvROK_off|||
SvROK_on|||
SvROK|||
SvRV_set|5.009003||p
SvRV|||
SvRXOK|5.009005|
SvRX|5.009005|
SvSETMAGIC|||
SvSHARE_HASH|5.009003||p
SvSHARE|5.007003|
SvSTASH_set|5.009003||p
SvSTASH|||
SvSetMagicSV_nosteal|5.004000|
SvSetMagicSV|5.004000|
SvSetSV_nosteal|5.004000|
SvSetSV|||
SvTAINTED_off|5.004000|
SvTAINTED_on|5.004000|
SvTAINTED|5.004000|
deprecate||
despatch_signals||5.007001|
destroy_matcher||
die_nocontext||vn
die_where||
die||v
dirp_dup||
div128|||
djSP|||
do_aexec5|||
do_aexec|||
do_aspawn|||
do_binmode||5.004050|
do_chomp|||
do_chop|||
do_close|||
do_dump_pad|||
do_eof|||
do_exec3|||
do_execfree|||
do_exec|||
do_gv_dump||5.006000|
do_gvgv_dump||5.006000|
do_hv_dump||5.006000|
do_ipcctl|||
do_ipcget|||
do_join|||
do_kv|||
do_magic_dump||5.006000|
do_msgrecv|||
do_msgsnd|||
do_oddball|||
do_op_dump||5.006000|
do_op_xmldump|||
do_open9||5.006000|
do_openn||5.007001|
do_open||5.004000|
do_pmop_dump||5.006000|
do_pmop_xmldump|||
do_print|||
do_readline|||
do_seek|||
do_semop|||
do_shmio|||
do_smartmatch|||
do_spawn_nowait|||
do_spawn|||
do_sprintf|||
do_sv_dump[5.006000]
do_sysseek[]
do_tell[]
do_trans_complex_utf8[]
do_trans_complex[]
do_trans_count_utf8[]
do_trans_count[]
do_trans_simple_utf8[]
do_trans_simple[]
do_trans[]
do_vecget[]
do_veset[]
do_vop[]
docatch[]
doeval[]
dofile[]
dofindlabel[]
doform[]
doing_taint[5.008001]n
dooneliner[]
doopen_pm[]
doparseform[]
dopoptoeval[]
dopoptogiven[]
dopoptolabel[]
dopoptoloop[]
dopoptosub_at[]
dopoptowhen[]
doref[5.009003]
dounwind[]
dowantarray[]
dump_all[5.006000]
dump_eval[5.006000]
dump_exec_pos[]
dump_fds[]
dump_form[5.006000]
dump_indent[5.006000]v
dump_mstats[]
dump_packsubs[5.006000]
dump_sub[5.006000]
dump_sv_child[]
dump_trie_interim_list[]
dump_trie_interim_table[]
dump_trie[]
dump_vindent[5.006000]
dumpuntil[]
dup_attrlist[]
emulate_cop_io[]
get_hv|5.006000||p
get_isa_hash|
get_mstats|
get_no_modify|
get_num|
get_op_descs|5.005000|
get_op_names|5.005000|
get_opargs|
get_ppaddr|5.006000|
get_re_arg|
get_sv|5.006000||p
get_vtbl|5.005030|
getcwd_sv|5.007002|
getenv_len|
glob_2number|
glob_assign_glob|
glob_assign_ref|
gp_dup|
gp_free|
grok_bin|5.007003||p
grok_hex|5.007003||p
grok_number|5.007002||p
grok_numeric_radix|5.007002||p
grok_oct|5.007003||p
group_end|
gv_AVadd|
gv_HVadd|
gv_IOadd|
gv_SVadd|
gv_autoload4|5.004000|
gv_check|
gv_const_sv|5.009003|
gv_dump|5.006000|
gv_efullname3|5.004000|
gv_efullname4|5.006001|
gv_efullname|
gv_ename|
gv_fetchfile_flags|5.009005|
gv_fetchfile|
gv_fetchmeth_autoload|5.007003|
gv_fetchmethod_autoload|5.004000|
gv_fetchmethod_flags|5.011000|
gv_fetchmethod|
gv_fetchmeth|
gv_fetchpvn_flags|5.009002||p
gv_fetchpvs|5.009004||p
gv_fetchpv|
Open Source Used In Intersight Kubernetes Service 1.0.15  26237
magic_clearhint
magic_clearisa
magic_clearpack
magic_clearsig
magic_dump[5.006000]
magic_existspack
magic_freearylen_p
magic_freeovrld
magic_getarylen
magic_getdefelem
magic_getnkeys
magic_getpack
magic_getpos
magic_getsig
magic_getsubstr
magic_gettaint
magic_getuvar
magic_getvec
magic_get
magic_killbackrefs
magic_len
magic_methcall
magic_methpack
magic_nextpack
magic_regdata_cnt
magic_regdatum_get
magic_regdatum_set
magic_scalarpack
magic_set_all_env
magic_setamagic
magic_setarylen
magic_setcolxfrm
magic_setdbline
magic_setdefelem
magic_setenv
magic_sethint
magic_setisa
magic_Setmglob
magic_setnkeys
magic_setpack
magic_setpos
magic_setregexp
magic_setsig
magic_setsubstr
magic_settaint
magic_setutf8
magic_setuvar
magic_setvec
mro_register[5.011000]
mro_set_mro[5.011000]
mro_set_private_data[5.011000]
mul128[]
mulexp10[]
m_alf2[5.007002]
m_atof[5.006000]
m_attrs[]
m_bcopy[]
m_betoh16[]
m_betoh32[]
m_betoh64[]
m_betoh[]
m_bzero[]
m_chsize[]
m_clearenv[]
m_ctxt_index[]
m_ctxt_init[]
m_dirfd[5.009005]
m_exit_jump[]
m_exit[]
m_failure_exit[5.004000]
m_fflush_all[5.006000]
m_fork[5.007003]
m_htobe16[]
m_htobe32[]
m_htobe64[]
m_htobe[]
m_htobes[]
m_htole16[]
m_htole32[]
m_htole64[]
m_htole[]
m_htoles[]
m_htonl[]
m_kid[]
m_letoh16[]
m_letoh32[]
m_letoh64[]
m_letoh[]
m_letohes[]
m_hton[]
m_kid[]
m_memcmp[5.004000]
my_memset
my_ntohl
my_pclose[5.004000]
my_popen_list[5.007001]
my_popen[5.004000]
my_setenv
my_snprintf[5.009004][p]
my_socketpair[5.007003][n]
my_sprintf[5.009003][p]
my_stat
my_strftime[5.007002]
my_strlcat[5.009004][p]
my_strlcpy[5.009004][p]
my_swabn
my_swap
my_unexec
my_vsnprintf[5.009004]
need_utf8
newANONATTRSUB[5.006000]
newANONHASH
newANONLIST
newANONSUB
newASSIGNOP
newATTRSUB[5.006000]
newAVREF
newAV
newBINOP
newCONDOP
newCONSTSUB[5.004050][p]
newCVREF
newDEFSVOP
newFORM
newFOROP
newGIVENOP[5.009003]
newGIVWHENOP
newGP
newGVREF
newGVOP
newGVREF
newGVgen
newHVREF
newHVhv[5.005000]
newHV
newIO
newLISTOP
newLOGOP
newLOOPEX
newLOOPPOP
newMADPROP
new_stackinfo|5.005000|
new_version|5.009000|
new_warnings_bitfield||
next_symbol||
nextargv||
nextchar||
ninstr||
no_bareword_allowed||
no_fh_allowed||
no_op||
not_a_number||
nothreadhook|5.008000|
nuke_stacks||
um_overflow||n
offer_nice_chunk||
oopsAV||
oopsHV||
op_clear||
op_const_sv||
op_dump|5.006000|
op_free||
op_getmad_weak||
op_getmad||
op_null|5.007002|
op_refcnt_dec||
op_refcnt_inc||
op_refcnt_lock|5.009002|
op_refcnt_unlock|5.009002|
op_xmldump||
open_script||
pMY_CXT_5.007003|p
pMY_CXT|5.007003|p
pTHX_-5.006000|p
pTHX|5.006000|p
packWARN|5.007003|p
pack_cat|5.007003|
pack_rec||
package||
packlist|5.008001|
pad_add_anon||
pad_add_name||
pad_alloc||
pad_block_start||
pad_check_dup||
pad_compname_type||
pad_findlex||
pad_findmy||
pad_fixup_inner_anons||
runops_standard||5.005000|
rpv_dup||
rxres_free||
rxres_restore||
rxres_save||
safesyscalloc||5.006000|
safesysfree||5.006000|
safesysmalloc||5.006000|
safesysrealloc||5.006000|
same_dirent||
save_116||5.004000|
save_132||
save_18||5.006000|
save_adelete||5.011000|
save_aelem||5.004050|
save_alloc||5.006000|
save_aptr||
save_ary||
saveBOOL||5.008001|
save_clearsv||
save_delete||
saveDestructor_x||5.006000|
saveDestructor||5.006000|
save_freeop||
save_freepv||
save_freesv||
saveGeneric_pvref||5.006001|
saveGeneric_svref||5.005030|
save gp||5.004000|
save_hash||
save_helm_flags||
save_helm_flags||5.011000|
save_helm||5.004050|
save_hints||
save_lptr||
save_int||
save_item||
save_iv||5.005000|
save_lines||
save_list||
save_long||
save_magic||
save_mortalizesv||5.007001|
save_nogv||
save_op||
save_padsv_and_mortalize||5.011000|
save_pptr||
save_pushi32ptr||
save_pushptr32ptr
save_pushptrptr
save_pushptr[5.011000]
save_re_context[5.006000]
save_scalar_at||
save_scalar||
save_set_svflags[5.009000]
save_shared_pvref[5.007003]
save_sptr||
save_svref||
save_vptr[5.006000]
savepvn||
savepvs[5.009003]
savepv||
savesharedpvn[5.009005]
savesharedpv[5.007003]
savestack_grow_cnt[5.008001]
savestack_grow||
savesvpv[5.009002]
sawparens||
scalar_mod_type||
scalarboolean||
scalarkids||
scalarseq||
scalarvoid||
scalar||
scan_bin[5.006000]
scan_commit||
scan_const||
scan_formline||
scan_heredoc||
scan_hex||
scan_ident||
scan_inputsymbol||
scan_num[5.007001]
scan_oct||
scan_path||
scan_str||
scan_subst||
scan_trans||
scan_version[5.009001]
scan_vstring[5.009005]
scan_word||
scope||
screaminstr[5.005000]
search_const||
seed[5.008001]
sequence_num||
<table>
<thead>
<tr>
<th>Function</th>
<th>Description</th>
<th>Memory Access</th>
<th>Flags Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>sv_dec</td>
<td>Decrement value</td>
<td></td>
<td></td>
</tr>
<tr>
<td>sv_del_backref</td>
<td>Delete backref</td>
<td></td>
<td></td>
</tr>
<tr>
<td>sv_derived_from</td>
<td>Derived from</td>
<td>5.004000</td>
<td></td>
</tr>
<tr>
<td>sv_destroyable</td>
<td>Destroyable</td>
<td>5.010000</td>
<td></td>
</tr>
<tr>
<td>sv_does</td>
<td>Does</td>
<td>5.009004</td>
<td></td>
</tr>
<tr>
<td>sv_dump</td>
<td>Dump</td>
<td></td>
<td></td>
</tr>
<tr>
<td>sv_dup_inc_multiple</td>
<td>Increment multiple</td>
<td></td>
<td></td>
</tr>
<tr>
<td>sv_dup</td>
<td>Dup</td>
<td></td>
<td></td>
</tr>
<tr>
<td>sv_eq</td>
<td>Equal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>sv_exp_grow</td>
<td>Expand and grow</td>
<td></td>
<td></td>
</tr>
<tr>
<td>sv_force_normal_flags</td>
<td>Force normal</td>
<td>5.007001</td>
<td></td>
</tr>
<tr>
<td>sv_force_normal</td>
<td>Force normal</td>
<td>5.006000</td>
<td></td>
</tr>
<tr>
<td>sv_free2</td>
<td>Free 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>sv_free_arenas</td>
<td>Free arenas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>sv_free</td>
<td>Free</td>
<td></td>
<td></td>
</tr>
<tr>
<td>sv_gets</td>
<td>Gets</td>
<td>5.004000</td>
<td></td>
</tr>
<tr>
<td>sv_grow</td>
<td>Grow</td>
<td></td>
<td></td>
</tr>
<tr>
<td>sv_incmp</td>
<td>Imcnp</td>
<td></td>
<td></td>
</tr>
<tr>
<td>sv_inc</td>
<td>Inc</td>
<td></td>
<td></td>
</tr>
<tr>
<td>sv_insert_flags</td>
<td>Insert flags</td>
<td>5.011000</td>
<td></td>
</tr>
<tr>
<td>sv_insert</td>
<td>Insert</td>
<td></td>
<td></td>
</tr>
<tr>
<td>sv_isa</td>
<td>Isa</td>
<td></td>
<td></td>
</tr>
<tr>
<td>sv_isobject</td>
<td>Isobject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>sv_iv</td>
<td>Iv</td>
<td>5.005000</td>
<td></td>
</tr>
<tr>
<td>sv_kill_backrefs</td>
<td>Kill backrefs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>sv_len_utf8</td>
<td>Length utf8</td>
<td>5.006000</td>
<td></td>
</tr>
<tr>
<td>sv_len</td>
<td>Length</td>
<td></td>
<td></td>
</tr>
<tr>
<td>sv_magic_portable</td>
<td>Magic portable</td>
<td>5.011000 [5.004000]</td>
<td></td>
</tr>
<tr>
<td>sv_magicext</td>
<td>Magic ext</td>
<td>5.007003</td>
<td></td>
</tr>
<tr>
<td>sv_magic</td>
<td>Magic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>sv_mortalcopy</td>
<td>Mortalcopy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>sv_ncmp</td>
<td>Ncmp</td>
<td></td>
<td></td>
</tr>
<tr>
<td>sv_newmortal</td>
<td>New mortal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>sv_newref</td>
<td>New ref</td>
<td></td>
<td></td>
</tr>
<tr>
<td>sv_nolocking</td>
<td>Nolocking</td>
<td>5.007003</td>
<td></td>
</tr>
<tr>
<td>sv_nosharing</td>
<td>Nosharing</td>
<td>5.007003</td>
<td></td>
</tr>
<tr>
<td>sv_nounlocking</td>
<td>Nounlocking</td>
<td></td>
<td></td>
</tr>
<tr>
<td>sv_nv</td>
<td>Nv</td>
<td>5.005000</td>
<td></td>
</tr>
<tr>
<td>sv Peek</td>
<td>Peek</td>
<td>5.005000</td>
<td></td>
</tr>
<tr>
<td>sv_pos_b2u_midway</td>
<td>Pos b2u midway</td>
<td></td>
<td></td>
</tr>
<tr>
<td>sv_pos_b2u</td>
<td>Pos b2u</td>
<td>5.006000</td>
<td></td>
</tr>
<tr>
<td>sv_pos_u2b_cached</td>
<td>Pos u2b cached</td>
<td></td>
<td></td>
</tr>
<tr>
<td>sv_pos_u2b_forwards</td>
<td>Pos u2b forwards</td>
<td></td>
<td></td>
</tr>
<tr>
<td>sv_pos_u2b_midway</td>
<td>Pos u2b midway</td>
<td></td>
<td></td>
</tr>
<tr>
<td>sv_pos_u2b</td>
<td>Pos u2b</td>
<td>5.006000</td>
<td></td>
</tr>
<tr>
<td>sv_pvbyteen_force</td>
<td>Pvb yten force</td>
<td>5.006000</td>
<td></td>
</tr>
<tr>
<td>sv_pvbyteen</td>
<td>Pvb yten</td>
<td>5.006000</td>
<td></td>
</tr>
<tr>
<td>sv_pvbyte</td>
<td>Pvbyte</td>
<td>5.006000</td>
<td></td>
</tr>
</tbody>
</table>
if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
        print "$f ", 'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
    }
    exit 0;
}

# Scan for possible replacement candidates

my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}
}
$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};
if ($function) {
if (/^}/) {
if (exists $API{$function->[0]}) {
my @n = find_api($function->[1]);
push @{$depends{$function->[0]}}, @n if @n

Open Source Used In Intersight Kubernetes Service 1.0.15 26258


$function = [S1, "$if m{"^DPPP"><\1\\(w+\))">;\n
$replace = $1 if m{"^s+$rccs<Replace:s+($d+)$s+$rcces*$s};
$replace{$2} = $1 if $replace and m{"^s+$#s*define$s+($w+)(?:\(\([^])]\))?$s++($w+)};
$replace{$2} = $1 if m{"^s+$rccs<Replace ($w+) with ($w+) \s+$rcces*$s};

if (m{"^s*$rccs<+depends$s+on$s+($w+)$s+$rcces*$s}) { my @deps = map { s/\s+//g; $_ } split /, $3;
my $d;
for $d (map { s/\s+//g; $_ } split /, $1) {
push @{$depends{$d}}, @deps;
}}

$need{$1} = 1 if m{"^#if\s+defined\NEED_\(w+\)(?:_GLOBAL)?\)">}

for (values %depends) {
my %s;
$_ = [sort grep !$s{$_}++, @$_];
}

if (exists $opt{api-info}) {
my $f;
my $count = 0;
my $match = $opt{api-info} =~ m!^/(.*)/$! ? $1 : "^Q$opt{api-info}\E==$";
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $f =~ /$match/;
print "\n$info++ = $f =\n\n";
my $info = 0;
if ($API{$f}{base} || $API{$f}{todo}) {
my $base = format_version($API{$f}{base} || $API{$f}{todo});
print "Supported at least starting from perl-$base:\n";
$info++;}
if ($API{$f}{provided}) {
my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
print "Support by $ppport provided back to perl-$todo:\n";
print "Support needs to be explicitly requested by NEED_$f:\n" if exists $need{$f};
print "Depends on: ", join(', ', @{$depends{$f}}), ".\n"
if exists $depends{$f};
print "unShints{$f}" if exists Shints{$f};
print "unWARNING:un$warnings{$f}" if exists $warnings{$f};
$info++;
}
print "No portability information available.\n" unless $info;
$count++;
}
$count or print "Found no API matching '$opt{'api-info'}'.";
print "\n";
exit 0;
}
if (exists $opt{'list-provided'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
  next unless $API{$f}{provided};
  my @flags;
  push @flags, 'explicit' if exists $need{$f};
  push @flags, 'depend'   if exists $depends{$f};
  push @flags, 'hint'     if exists $hints{$f};
  push @flags, 'warning'  if exists $warnings{$f};
  my $flags = @flags ? '  [' . join(', ', @flags) . ']' : "";
  print "$f$flags\n";
}
exit 0;
}
my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;
if (@ARGV) {
  my %seen;
  for (@ARGV) {
    if (-e) {
      if (-f) {
        push @files, $_ unless $seen{$_}++;
      } else {
        warn "$_ is not a file.\n"
      }
    } else {
      my @new = grep { -f } glob $_
      or warn "$_ does not exist.\n";
      push @files, grep { !$seen{$_}++ } @new;
    }
  }
}

else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;

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my $func;

for $func (keys %API) {
    my $match = $func;
    $match =~ "/?\w+\$$/" if exists $revreplace{$func};
    if ($c =~ /(?:Perl_)?($match)/) {
        $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
        $file{uses_Perl}{$func}++ if $c =~ /Perl_$func/;
        if (exists $API{$func}{provided}) {
            $file{uses_provided}{$func}++;
            if (exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
                $file{uses}[$func]++;
            }
        }
    }
    if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
        if ($c =~ /$func/) {
            $file{uses_todo}{$func}++;
        }
    }
}

while ($c =~ /^$HS*#\$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)$$/) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
unless ($API{$func}{nothxarg}) {
my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
if ($changes) {

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warning("Doesn't pass interpreter argument aTHX to Perl_$func");
$file{changes} += $changes;
}
}
}
else {
warning("Uses Perl_$func instead of $func");
$file{changes} += ($c =~ s/\bPerl_$func(\s*)((\s*aTHX_?)?\s*)
  \$func\1(\g);)
}
}

for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s/\b$func\b/$replace{$func}/g);
}

for $func (sort keys %{$file{uses_provided}}) {
    if ($file{uses}[$func]) {
        if (exists $file{uses_deps}{$func}) {
            diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
        } else {
            diag("Uses $func");
        } 
    } 
    $warnings += hint($func);
}

unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
            format_version($API{$func}{todo}), ", even with '$ppport'\n";
        $warnings++;
    }
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = "";
    if (not exists $file{uses}{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    } elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    } if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS*NEED_$func$HS*define$HS+$NEED_$func\b.*$LF//mg);
for $func (sort keys %{$file{needed_global}})) {
    my $message = ""
    if (not exists $global{uses}{$func}) {
        $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
    } elsif (exists $file{needs}{$func}) {
        if ($file{needs}{$func} eq 'extern') {
            $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
        } elsif ($file{needs}{$func} eq 'static') {
            $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
        }
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
    }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = ""
    for $func (sort keys %{$file{needs}})) {
        my $type = $file{needs}{$func};
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "";
        unless (exists $file{"needed_$type"}{$func}) {
            if ($type eq 'global') {
                diag("Files [@ {$global{needs}{$func}}] need $func, adding global request");
            } else {
                diag("File needs $func, adding static request");
            }
        } else {
            diag("Files [@ {$global{needs}{$func}}] need $func, adding adding global request");
        }
        $pp .="#define NEED_${func}$suffix\n";
    }
    if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)+/$pp/m)) {
        $pp = "";
        $file{changes}++;
    }
}

unless ($file{has_inc_ppport}) {

}
diag("Needs to include '$ppport'");
$pp .= qq(#include "$ppport"
)  
if ($pp) { 
  $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*)?/$1$pp/ms) 
  || ($c =~ s/^\(?!=$HS*#$HS*include.*\Q$ppport\E)$pp/m) 
  || ($c =~ s/^\(?!=$HS*#$HS*include.*XSUB\n\s*?)\/$1$pp/m) 
  || ($c =~ s/^/$pp/); 
} 
} else { 
  if ($file{has_inc_ppport}) { 
    diag("No need to include '$ppport'"); 
    $file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Q$ppport\E.*?$LF//m); 
  } 
} 
# put back in our C comments
my $ix; 
my $cppc = 0; 
my @ccom = @{$file{ccom}}; 
for $ix (0 .. $#ccom) { 
  if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
    $cppc++; 
    $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/; 
  } else { 
    $c =~ s/$rccs$ix$rcce/$ccom[$ix]/; 
  } 
} 
if ($cppc) { 
  my $s = $cppc != 1 ? 's' : ''; 
  warning("Uses $cppc C++ style comment$s, which is not portable"); 
} 

my $s = $warnings != 1 ? 's' : ''; 
my $warn = $warnings ? " ($warnings warning$s)" : ''; 
info("Analysis completed$warn"); 

if ($file{changes}) { 
  if (exists $opt{copy}) { 
    my $newfile = "$filename$opt{copy}"; 
    warning("Uses $cppc C++ style comment$s, which is not portable"); 
  } 
  my $newfile = "$filename$opt{copy}"; 
  if (-e $newfile) { 
    error("'$newfile' already exists, refusing to write copy of '$filename'"); 
  } else {
local *F;
if (open F, ">$newfile") {
    info("Writing copy of '$filename' with changes to '$newfile'");
    print F $c;
    close F;
} else {
    error("Cannot open '$newfile' for writing: $!");
}
} elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
        unless ($patch_opened) {
            if (open PATCH, ">$opt{patch}") {
                $patch_opened = 1;
            } else {
                error("Cannot open '$opt{patch}' for writing: $!");
                delete $opt{patch};
                $opt{changes} = 1;
                goto fallback;
            }
        }
        mydiff(*PATCH, $filename, $c);
    } else {
        fallback:
            info("Suggested changes:");
            mydiff(*STDOUT, $filename, $c);
        }
    } else {
        my $s = $file{changes} == 1 ? '' : 's';
        info("$file{changes} potentially required change$s detected");
    }
} else {
    info("Looks good");
}
}

close PATCH if $patch_opened;

exit 0;

sub try_use { eval "use @_ "; return @$_ eq " }
sub mydiff
{
    local *F = shift;
    my($file, $str) = @_;  
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if (!defined $diff and try_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff;  
        --- $file
        +++ $file.patched
        HEADER
    }

    if (!defined $diff) {
        $diff = run_diff('diff -u', $file, $str);
    }

    if (!defined $diff) {
        $diff = run_diff('diff', $file, $str);
    }

    if (!defined $diff) {
        error("Cannot generate a diff. Please install Text::Diff or use --copy.");
        return;
    }

    print F $diff;
}

sub run_diff
{
    my($prog, $file, $str) = @_;  
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = ".
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";

    if (open F, ">$tmp") {
        print F $str;
    }
close F;

if (open F, "$prog $file $tmp |") {
    while (<F>) {
        $diff .= s/Q$tmp/E/file.patched/;
        $diff .= $_;
    }
    close F;
    unlink $tmp;
    return $diff;
}

unlink $tmp;
}
else {
    error("Cannot open '$tmp' for writing: $!");
}
return undef;
}

sub rec_depend {
    my($func, $seen) = @_; 
    return () unless exists $depends{$func};
    $seen = {%{$seen||{}}};
    return () if $seen->{$func}++;
    my %s;
    grep !s{$_}++, map { ($__. rec_depend($__, $seen)) } @{$depends{$func}};
}

sub parse_version {
    my $ver = shift;
    if ($ver =~ /^\d+\./) {
        return ($1, $2, $3);
    }
    elsif ($ver !~ ~/\d+\./) {
        die "cannot parse version '$ver'\u1601";
    }
    $ver =~ s//g;
    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\d+\./;($d{3})\d{3}$/;
    $v = int $v;
}
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "cannot parse version "$ver"\n";
    }
}

return ($r, $v, $s);
}

sub format_version
{
    my $ver = shift;

    $ver =~ s/$/000000/;
    my($r, $v, $s) = $ver =~ /\d+\d+\d+\d+\d+\d+/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "invalid version "$ver"\n";
        }
        $s /= 10;
    }

    $ver = sprintf "%d.0%d", $r, $v;
    $s > 0 and $ver .= sprintf "_%02d", $s;

    return $ver;
}

return sprintf "%d.0%d.0%d", $r, $v, $s;
}

sub info
{
    $opt{quiet} and return;
    print @_, "\n";
}

sub diag
{
    $opt{quiet} and return;
    $opt{diag} and print @_, "\n";
}
sub warning
{
$opt{quiet} and return;
print "*** ", @_, "\n";
}
sub error
{
print "*** ERROR: ", @_, "\n";
}
my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE
exit 2;

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my $self = do { local(@ARGV,$/=($0); <> );
my($copy) = $self =~ /^=head[\d]* COPYRIGHT.*?=/ms;
$copy =~ s/^(?=$HS+)/    /gms;
$self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
$self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (@ARGV && $ARGV[0] eq '--unstrip') {
  eval { require Devel::PPPort ;
  \$@ and die "Cannot require Devel::PPPort, please install.\n";
  if (eval \$Devel::PPPort::VERSION < \$VERSION) {
    die "$0 was originally generated with Devel::PPPort \$VERSION.\n" . "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\n" . "Please install a newer version, or --unstrip will not work.\n";
  };
  Devel::PPPort::WriteFile($0);
  exit 0;
  }
print <<END;
Sorry, but this is a stripped version of \$0.
To be able to use its original script and doc functionality,
please try to regenerate this file using:

\$^X \$0 --unstrip
END

my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
$c =~ s{[\s\x00-\x1F\x7F]/ (?: \*[^\*]*\*+(?:[^$ccs]\[^*]*\*+)\s? / | \/[^
\*\^\s\x00-\x1F\x7F]*) | ( "[^"\s\x00-\x1F\x7F]*" | \[^\*\s\x00-\x1F\x7F]*)\s+\{| \$:\s*\}\s+\{*\| \s+\}\s+\*\}\s+\{*\| \s+\}\s+\*\}\s+\{*\| \s+\}\s+\*\}\s+\{*\| \s+\}\s+\*\}\s+\{*\| \s+\}\s+\*\}\s+\{*\| \$\s+\$\}gsex;
$c =~ s!\s+$!!mg;
$c =~ s!^\s*#!#!mg;
$c =~ s!^\s+!!mg;
open OUT, ">$0" or die "cannot strip $0: $!\n";
print OUT "$pl$c\n";
exit 0;
}
**DATA**

*/

Found in path(s):

No license file was found, but licenses were detected in source scan.

---

abstract: 'Perl extension for sharing data structures between threads'

author:
- 'Artur Bergman, Jerry D. Hedden <jdhedden AT cpan DOT org>'

build_requires:
  ExtUtils::MakeMaker: '0'

configure_requires:
  ExtUtils::MakeMaker: '0'

dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'

license: perl

meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'

name: threads-shared

no_index:

directory:
  - t
  - inc

requires:
  Carp: '0'
  Config: '0'
  ExtUtils::testlib: '0'
  Scalar::Util: '0'
  Test::More: '0'
  XSLoader: '0'
  strict: '0'
  threads: '1.73'
  warnings: '0'
  version: '1.58'

x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):

No license file was found, but licenses were detected in source scan.

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**NAME**

threads::shared - Perl extension for sharing data structures between threads

**VERSION**

This document describes threads::shared version 1.58

**SYNOPSIS**

```perl
use threads;
use threads::shared;

my $var :shared;
my %hsh :shared;
my @ary :shared;

my ($scalar, @array, %hash);
share($scalar);
share(@array);
share(%hash);

$var = $scalar_value;
$var = $shared_ref_value;
$var = shared_clone($non_shared_ref_value);
$var = shared_clone({'foo' => [qw/foo bar baz/]});

$hsh{'foo'} = $scalar_value;
$hsh{'bar'} = $shared_ref_value;
$hsh{'baz'} = shared_clone($non_shared_ref_value);
$hsh{'quiz'} = shared_clone([1..3]);

$ary[0] = $scalar_value;
$ary[1] = $shared_ref_value;
$ary[2] = shared_clone($non_shared_ref_value);
$ary[3] = shared_clone([ {}, [ ] ]);:

{ lock(%hash); ... }

cond_wait($scalar);
cond_timedwait($scalar, time() + 30);
cond_broadcast(@array);
```
cond_signal(%hash);

my $lockvar :shared;
# condition var != lock var
cond_wait($var, $lockvar);
cond_timedwait($var, time()+30, $lockvar);

=head1 DESCRIPTION

By default, variables are private to each thread, and each newly created thread gets a private copy of each existing variable. This module allows you to share variables across different threads (and pseudo-forks on Win32). It is used together with the L<threads> module.

This module supports the sharing of the following data types only: scalars and scalar refs, arrays and array refs, and hashes and hash refs.

=head1 EXPORT

The following functions are exported by this module: C<share>, C<shared_clone>, C<is_shared>, C<cond_wait>, C<cond_timedwait>, C<cond_signal> and C<cond_broadcast>

Note that if this module is imported when L<threads> has not yet been loaded, then these functions all become no-ops. This makes it possible to write modules that will work in both threaded and non-threaded environments.

=head1 FUNCTIONS

=over 4

=item share VARIABLE

C<share> takes a variable and marks it as shared:

my ($scalar, @array, %hash);
share($scalar);
share(@array);
share(%hash);

C<share> will return the shared rvalue, but always as a reference.

Variables can also be marked as shared at compile time by using the C<:shared> attribute:

my ($var, %hash, @array) :shared;

Shared variables can only store scalars, refs of shared variables, or
refs of shared data (discussed in next section):

my ($var, %hash, @array) :shared;
my $bork;

# Storing scalars
$var = 1;
$hash{'foo'} = 'bar';
$array[0] = 1.5;

# Storing shared refs
$var = %hash;
$hash{'ary'} = @array;
$array[1] = $var;

# The following are errors:
#   $var = $bork;                    # ref of non-shared variable
#   $hash{'bork'} = [];               # non-shared array ref
#   push(@array, {'x' => 1 });       # non-shared hash ref

=items shared_clone REF

C<shared_clone> takes a reference, and returns a shared version of its argument, performing a deep copy on any non-shared elements. Any shared elements in the argument are used as is (i.e., they are not cloned).

my $cpy = shared_clone({'foo' => qw/foo bar baz/});

Object status (i.e., the class an object is blessed into) is also cloned.

my $obj = {'foo' => qw/foo bar baz/};
bless($obj, 'Foo');
my $cpy = shared_clone($obj);
print(ref($cpy), "\n");       # Outputs 'Foo'

For cloning empty array or hash refs, the following may also be used:

$var = &share([]);   # Same as $var = shared_clone([]);
$var = &share();    # Same as $var = shared_clone();

Not all Perl data types can be cloned (e.g., globs, code refs). By default, C<shared_clone> will L<croak|Carp> if it encounters such items. To change this behaviour to a warning, then set the following:

$threads::shared::clone_warn = 1;

In this case, C<undef> will be substituted for the item to be cloned. If set to zero:
$threads::shared::clone_warn = 0;

then the C<undef> substitution will be performed silently.

=item is_shared VARIABLE

C<is_shared> checks if the specified variable is shared or not. If shared, returns the variable's internal ID (similar to C<refaddr()>) (see L<Scalar::Util>). Otherwise, returns C<undef>.

if (is_shared($var)) {
    print("$var is shared\n");
} else {
    print("$var is not shared\n");
}

When used on an element of an array or hash, C<is_shared> checks if the specified element belongs to a shared array or hash. (It does not check the contents of that element.)

my %hash :shared;
if (is_shared(%hash)) {
    print("%hash is shared\n");
}

$hash{'elem'} = 1;
if (is_shared($hash{'elem'})) {
    print("$hash{'elem'} is in a shared hash\n");
}

=item lock VARIABLE

C<lock> places a B<advisory> lock on a variable until the lock goes out of scope. If the variable is locked by another thread, the C<lock> call will block until it’s available. Multiple calls to C<lock> by the same thread from within dynamically nested scopes are safe -- the variable will remain locked until the outermost lock on the variable goes out of scope.

C<lock> follows references exactly I<one> level:

my %hash :shared;
my $ref = %hash;
lock($ref);   # This is equivalent to lock(%hash)

Note that you cannot explicitly unlock a variable; you can only wait for the lock to go out of scope. This is most easily accomplished by locking the variable inside a block.
my $var :shared;
{
    lock($var);
    # $var is locked from here to the end of the block
    ...
}  # $var is now unlocked

As locks are advisory, they do not prevent data access or modification by another thread that does not itself attempt to obtain a lock on the variable.

You cannot lock the individual elements of a container variable:

my %hash :shared;
$hash{'foo'} = 'bar';
#lock($hash{'foo'});          # Error
lock(%hash);                  # Works

If you need more fine-grained control over shared variable access, see L<Thread::Semaphore>.

=item cond_wait VARIABLE
=item cond_wait CONDVAR, LOCKVAR

The C<cond_wait> function takes a B<locked> variable as a parameter, unlocks the variable, and blocks until another thread does a C<cond_signal> or C<cond_broadcast> for that same locked variable. The variable that C<cond_wait> blocked on is re-locked after the C<cond_wait> is satisfied. If there are multiple threads C<cond_wait>ing on the same variable, all but one will re-block waiting to reacquire the lock on the variable. (So if you’re only using C<cond_wait> for synchronization, give up the lock as soon as possible). The two actions of unlocking the variable and entering the blocked wait state are atomic, the two actions of exiting from the blocked wait state and re-locking the variable are not.

In its second form, C<cond_wait> takes a shared, B<unlocked> variable followed by a shared, B<locked> variable. The second variable is unlocked and thread execution suspended until another thread signals the first variable.

It is important to note that the variable can be notified even if no thread C<cond_signal> or C<cond_broadcast> on the variable. It is therefore important to check the value of the variable and go back to waiting if the requirement is not fulfilled. For example, to pause until a shared counter drops to zero:

---
In its two-argument form, `cond_timedwait` takes a B<locked> variable and an absolute timeout in I<epoch> seconds (see L<time() in perlfunc|perlfunc/time> for more) as parameters, unlocks the variable, and blocks until the timeout is reached or another thread signals the variable. A false value is returned if the timeout is reached, and a true value otherwise. In either case, the variable is re-locked upon return.

Like C<cond_wait>, this function may take a shared, B<locked> variable as an additional parameter; in this case the first parameter is an B<unlocked> condition variable protected by a distinct lock variable.

Again like C<cond_wait>, waking up and reacquiring the lock are not atomic, and you should always check your desired condition after this function returns. Since the timeout is an absolute value, however, it does not have to be recalculated with each pass:

```perl
lock($var);
my $abs = time() + 15;
until ($ok = desired_condition($var)) {
  last if !cond_timedwait($var, $abs);
}
# we got it if $ok, otherwise we timed out!
```

The C<cond_signal> function takes a B<locked> variable as a parameter and unblocks one thread that's C<cond_wait>ing on that variable. If more than one thread is blocked in a C<cond_wait> on that variable, only one (and which one is indeterminate) will be unblocked.

If there are no threads blocked in a C<cond_wait> on the variable, the signal is discarded. By always locking before signaling, you can (with care), avoid signaling before another thread has entered cond_wait().

C<cond_signal> will normally generate a warning if you attempt to use it on an unlocked variable. On the rare occasions where doing this may be sensible, you can suppress the warning with:

```perl
{ no warnings 'threads'; cond_signal($foo); }
```
The `cond_broadcast` function works similarly to `cond_signal`. `cond_broadcast`, though, will unblock all the threads that are blocked in a `cond_wait` on the locked variable, rather than only one.

```
# Create a shared 'Foo' object
my $foo :shared = shared_clone({});
bless($foo, 'Foo');

# Create a shared 'Bar' object
my $bar :shared = shared_clone({});
bless($bar, 'Bar');

# Put 'bar' inside 'foo'
$foo->{'bar'} = $bar;

# Rebless the objects via a thread
threads->create(sub {
    # Rebless the outer object
    bless($foo, 'Yin');

    # Cannot directly rebless the inner object
    bless($foo->{'bar'}, 'Yang');

    # Retrieve and rebless the inner object
    my $obj = $foo->{'bar'};
bless($obj, 'Yang');
    $foo->{'bar'} = $obj;

})->join();

print(ref($foo),      "\n") ;  # Prints 'Yin'
print(ref($foo->{'bar'}), "\n");  # Prints 'Yang'
print(ref($bar),      "\n") ;  # Also prints 'Yang'
```

`threads::shared` is designed to disable itself silently if threads are not available. This allows you to write modules and packages that can be used
in both threaded and non-threaded applications.

If you want access to threads, you must `use threads::shared`. `L<threads>` will emit a warning if you use it after `L<threads::shared>`.

=head1 WARNINGS

=over 4

=item cond_broadcast() called on unlocked variable

=item cond_signal() called on unlocked variable

See L</"cond_signal VARIABLE">, above.

=back

=head1 BUGS AND LIMITATIONS

When `share` is used on arrays, hashes, array refs or hash refs, any data they contain will be lost.

```perl
my @arr = qw(foo bar baz);
share(@arr);
# @arr is now empty (i.e., == ());

# Create a 'foo' object
my $foo = { 'data' => 99 };
bless($foo, 'foo');

# Share the object
share($foo);  # Contents are now wiped out
print("ERROR: \$foo is empty\n")
  if (! exists($foo->{'data'}));
```

Therefore, populate such variables B<after> declaring them as shared. (Scalar and scalar refs are not affected by this problem.)

Blessing a shared item after it has been nested in another shared item does not propagate the blessing to the shared reference:

```perl
my $foo = &share({});
my $bar = &share({});
$bar->{foo} = $foo;
bless($foo, 'baz');  # $foo is now of class 'baz',
   # but $bar->{foo} is unblessed.
```
Therefore, you should bless objects before sharing them.

It is often not wise to share an object unless the class itself has been written to support sharing. For example, a shared object's destructor may get called multiple times, once for each thread's scope exit, or may not get called at all if it is embedded inside another shared object. Another issue is that the contents of hash-based objects will be lost due to the above mentioned limitation. See F<examples/class.pl> (in the CPAN distribution of this module) for how to create a class that supports object sharing.

Destructors may not be called on objects if those objects still exist at global destruction time. If the destructors must be called, make sure there are no circular references and that nothing is referencing the objects before the program ends.

Does not support C<splice> on arrays. Does not support explicitly changing array lengths via $#array -- use C<push> and C<pop> instead.

Taking references to the elements of shared arrays and hashes does not autovivify the elements, and neither does slicing a shared array/hash over non-existent indices/keys autovivify the elements.

C<share()> allows you to C<< share($hashref->{key}) >> and C<< share($arrayref->[idx]) >> without giving any error message. But the C<< $hashref->[key] >> or C<< $arrayref->[idx] >> is B<not> shared, causing the error "lock can only be used on shared values" to occur when you attempt to C<< lock($hashref->[key]) >> or C<< lock($arrayref->[idx]) >> in another thread.

Using C<refaddr()> is unreliable for testing whether or not two shared references are equivalent (e.g., when testing for circular references). Use L<is_shared()|"is_shared VARIABLE">, instead:

```perl
use threads;
use threads::shared;
use Scalar::Util qw(refaddr);

# If ref is shared, use threads::shared's internal ID.
# Otherwise, use refaddr().
my $addr1 = is_shared($ref1) || refaddr($ref1);
my $addr2 = is_shared($ref2) || refaddr($ref2);

if ($addr1 == $addr2) {
    # The refs are equivalent
}
```

L<each()|perlfunc/"each HASH"> does not work properly on shared references.
embedded in shared structures. For example:

```perl
my %foo :shared;
$foo{ 'bar' } = shared_clone( { 'a' => 'x', 'b' => 'y', 'c' => 'z' } );

while ( my ($key, $val) = each(%{$foo{'bar'}}) ) {
    ...
}
```

Either of the following will work instead:

```perl
my $ref = $foo{ 'bar' };
while ( my ($key, $val) = each(%{$ref}) ) {
    ...
}

foreach my $key ( keys(%{$foo{ 'bar' }}) ) {
    my $val = $foo{'bar'}{$key};
    ...
}
```

This module supports dual-valued variables created using C<dualvar()> from L<Scalar::Util>. However, while C<$!> acts like a dualvar, it is implemented as a tied SV. To propagate its value, use the follow construct, if needed:

```perl
my $errno :shared = dualvar($!, $!);
```

View existing bug reports at, and submit any new bugs, problems, patches, etc. to: L<http://rt.cpan.org/Public/Dist/Display.html?Name=threads-shared>

=head1 SEE ALSO

threads::shared on MetaCPAN:
L<https://metacpan.org/release/threads-shared>

Code repository for CPAN distribution:

L<threads>, L<perlthrtut>

L<http://www.perl.com/pub/a/2002/06/11/threads.html> and

Perl threads mailing list:
L<http://lists.perl.org/list/ithreads.html>

Sample code in the I<examples> directory of this distribution on CPAN.
Artur Bergman E<lt>sky AT crucially DOT netE&lt;/gt>

Documentation borrowed from the old Thread.pm.

CPAN version produced by Jerry D. Hedden E&lt;lt&gt;jdhedden AT cpan DOT org&lt;/gt&gt;.

threads::shared is released under the same license as Perl.

/*    shared.xs
 *    Copyright (c) 2001-2002, 2006 Larry Wall
 *    You may distribute under the terms of either the GNU General Public
 *    License or the Artistic License, as specified in the README file.
 *    "Hand any two wizards a piece of rope and they would instinctively pull in
 *    opposite directions."
 *    --Sourcery
 *
 *    Contributed by Artur Bergman &lt;sky AT crucially DOT net&gt;
 *    Pulled in the (an)other direction by Nick Ing-Simmons
 *    &lt;nick AT ing-simmons DOT net&gt;
 *    CPAN version produced by Jerry D. Hedden &lt;jdhedden AT cpan DOT org&gt;
 */

/*    Shared variables are implemented by a scheme similar to tieing.
 *    Each thread has a proxy SV with attached magic -- "private SVs" --
 *    which all point to a single SV in a separate shared interpreter
 *    (PL_sharedsv_space) -- "shared SVs".
 *
 *    The shared SV holds the variable's true values, and its state is
 *    copied between the shared and private SVs with the usual
 *    mg_get()/mg_set() arrangement.
 *
 *    Aggregates (AVs and HVs) are implemented using tie magic, except that
the vtable used is one defined in this file rather than the standard one.
This means that where a tie function like FETCH is normally invoked by
the tie magic's mg_get() function, we completely bypass the calling of a
perl-level function, and directly call C-level code to handle it. On
the other hand, calls to functions like PUSH are done directly by code
in av.c, etc., which we can't bypass. So the best we can do is to provide
XS versions of these functions. We also have to attach a tie object,
blessed into the class threads::shared::tie, to keep the method-calling
code happy.
*
* Access to aggregate elements is done the usual tied way by returning a
proxy PVLV element with attached element magic.
*
* Pointers to the shared SV are squirreled away in the mg->mg_ptr field
of magic (with mg_len == 0), and in the IV2PTR(SvIV(sv)) field of tied
object SVs. These pointers have to be hidden like this because they
cross interpreter boundaries, and we don't want sv_clear() and friends
following them.
*
* The three basic shared types look like the following:
*
* ----------------
* Shared scalar (my $s : shared):
*
* SV = PVMG(0x7ba238) at 0x7387a8
* FLAGS = (PADMY,GMG,SMG)
* MAGIC = 0x824d88
* MG_TYPE = PERL_MAGIC_shared_scalar(n)
* MG_PTR = 0x810358  <<<< pointer to the shared SV
*
* ----------------
* Shared aggregate (my @a : shared;  my %h : shared):
*
* SV = PVAV(0x7175d0) at 0x738708
* FLAGS = (PADMY,RMG)
* MAGIC = 0x824e48
* MG_TYPE = PERL_MAGIC_tied(P)
* MG_OBJ = 0x7136e0  <<<< ref to the tied object
* SV = RV(0x7136f0) at 0x7136e0
* RV = 0x738640
* SV = PVMG(0x7ba238) at 0x738640  <<<< the tied object
* FLAGS = (OBJECT,IOK,pIOK)
* IV = 8455000  <<<< pointer to the shared AV
* STASH = 0x80abf0 "threads::shared::tie"
* MG_PTR = 0x810358  ""  <<<< another pointer to the shared AV
* ARRAY = 0x0
Aggregate element (my @a : shared; $a[0])

SV = PVLV(0x77f628) at 0x713550
FLAGS = (GMG,SMG,RMG,pIOK)
MAGIC = 0x72bd58
MG_TYPE = PERL_MAGIC_shared_scalar(n)
MG_PTR = 0x8103c0 "" <<<< pointer to the shared element
MAGIC = 0x72bd18
MG_TYPE = PERL_MAGIC_tiedelem(p)
MG_OBJ = 0x7136e0 <<<< ref to the tied object
SV = RV(0x7136f0) at 0x7136e0
RV = 0x738660
SV = PVMG(0x7ba278) at 0x738660 <<<< the tied object
FLAGS = (OBJECT,IOK,pIOK)
IV = 8455064 <<<< pointer to the shared AV
STASH = 0x80ac30 "threads::shared::tie"
TYPE = t

Note that PERL_MAGIC_tiedelem(p) magic doesn't have a pointer to a
shared SV in mg_ptr; instead this is used to store the hash key,
if any, like normal tied elements. Note also that element SVs may have
pointers to both the shared aggregate and the shared element.

Userland locks:

If a shared variable is used as a perl-level lock or condition
variable, then PERL_MAGIC_ext magic is attached to the associated
*shared* SV, whose mg_ptr field points to a malloc'ed structure
containing the necessary mutexes and condition variables.

Nomenclature:

In this file, any variable name prefixed with 's' (e.g., ssv, stmp or sobj)
usually represents a shared SV which corresponds to a private SV named
without the prefix (e.g., sv, tmp or obj).

#define PERL_NO_GET_CONTEXT
#include "EXTERN.h"
#include "perl.h"
#include "XSUB.h"
ifndef HAS_PPPORT_H
# define NEED_sv_2pv_flags
# define NEED_vnewSVpvf

# define NEED_warner
# define NEED_newSVpvn_flags
# include "ppport.h"
# include "shared.h"
#endif

#ifndef CLANG_DIAG_IGNORE
# define CLANG_DIAG_IGNORE(x)
# define CLANG_DIAG_RESTORE
#endif
#ifndef CLANG_DIAG_IGNORE_STMT
# define CLANG_DIAG_IGNORE_STMT(x) CLANG_DIAG_IGNORE(x) NOOP
# define CLANG_DIAG_RESTORE_STMT CLANG_DIAG_RESTORE NOOP
#endif

#ifndef USE_ITHREADS

/* Magic signature(s) for mg_private to make PERL_MAGIC_ext magic safer */
#define UL_MAGIC_SIG 0x554C /* UL = user lock */

/* */
static PerlInterpreter *PL_sharedsv_space; /* The shared sv space */
/* To access shared space we fake aTHX in this scope and thread's context */

/* Bug #24255: We include ENTER+SAVETMPS/FREETMPS+LEAVE with
* SHARED_CONTEXT/CALLER_CONTEXT macros, so that any mortals, etc. created
* while in the shared interpreter context don't languish */
#endif

#define SHARED_CONTEXT  \
    STMT_START {  \
        PERL_SET_CONTEXT((aTHX = PL_sharedsv_space));  \
        ENTER;  \
        SAVETMPS;  \
    } STMT_END

/* So we need a way to switch back to the caller's context... */
/* So we declare _another_ copy of the aTHX variable ... */
#define dTHXc PerlInterpreter *caller_perl = aTHX

/* ... and use it to switch back */
#define CALLER_CONTEXT  \
    STMT_START {  \
        FREETMPS;  \
        LEAVE;  \
        PERL_SET_CONTEXT((aTHX = caller_perl));  \
    } STMT_END
/**
 * Only one thread at a time is allowed to mess with shared space.
 */

typedef struct {
    perl_mutex mutex;
    PerlInterpreter *owner;
    I32 locks;
    perl_cond cond;
#ifdef DEBUG_LOCKS
    const char * file;
    int line;
#endif
} recursive_lock_t;

static recursive_lock_t PL_sharedsv_lock; /* Mutex protecting the shared sv space */

static void recursive_lock_init(pTHX_ recursive_lock_t *lock)
{
    Zero(lock,1,recursive_lock_t);
    MUTEX_INIT(&lock->mutex);
    COND_INIT(&lock->cond);
}

static void recursive_lock_destroy(pTHX_ recursive_lock_t *lock)
{
    MUTEX_DESTROY(&lock->mutex);
    COND_DESTROY(&lock->cond);
}

static void recursive_lock_release(pTHX_ recursive_lock_t *lock)
{
    MUTEX_LOCK(&lock->mutex);
    if (lock->owner == aTHX) {
        if (--lock->locks == 0) {
            lock->owner = NULL;
            COND_SIGNAL(&lock->cond);
        }
    }
    MUTEX_UNLOCK(&lock->mutex);
}

static void recursive_lock_acquire(pTHX_ recursive_lock_t *lock, const char *file, int line)
{
    PERL_UNUSED_ARG(file);
    PERL_UNUSED_ARG(line);
    assert(aTHX);
    MUTEX_LOCK(&lock->mutex);
    if (lock->owner == aTHX) {
        lock->locks++;
    } else {
        while (lock->owner) {
            #ifdef DEBUG_LOCKS
                Perl_warn(aTHX_ " %p waiting - owned by %p %s:%d\n",
                        aTHX, lock->owner, lock->file, lock->line);
            #endif
            COND_WAIT(&lock->cond,&lock->mutex);
        }
        lock->locks = 1;
        lock->owner = aTHX;
    }  
    #ifdef DEBUG_LOCKS
        lock->file  = file;
        lock->line  = line;
    #endif
}
MUTEX_UNLOCK(&lock->mutex);
SAVEDESTRUCTOR_X(recursive_lock_release,lock);
}

#define ENTER_LOCK
STMT_START {
    ENTER;
    recursive_lock_acquire(aTHX_ &PL_sharedsv_lock, __FILE__, __LINE__);
} STMT_END

/* The unlocking is done automatically at scope exit */
#define LEAVE_LOCK     LEAVE

/* A common idiom is to acquire access and switch in ... */
#define SHARED_EDIT
STMT_START {
    ENTER_LOCK;
    SHARED_CONTEXT;
} STMT_END

/* ... then switch out and release access. */
#define SHARED_RELEASE
STMT_START {
    CALLER_CONTEXT;
    LEAVE_LOCK;
}
/* User-level locks:
   This structure is attached (using ext magic) to any shared SV that
   is used by user-level locking or condition code
*/

typedef struct {
    recursive_lock_t    lock;           /* For user-level locks */
    perl_cond           user_cond;      /* For user-level conditions */
} user_lock;

/* Magic used for attaching user_lock structs to shared SVs

The vtable used has just one entry - when the SV goes away
we free the memory for the above.
*/

static int
sharedsv_userlock_free(pTHX_ SV *sv, MAGIC *mg)
{
    user_lock *ul = (user_lock *) mg->mg_ptr;
    PERL_UNUSED_ARG(sv);
    assert(aTHX == PL_sharedsv_space);
    if (ul) {
        recursive_lock_destroy(aTHX_ &ul->lock);
        COND_DESTROY(&ul->user_cond);
        PerlMemShared_free(ul);
        mg->mg_ptr = NULL;
    }
    return (0);
}

static const MGVTBL sharedsv_userlock_vtbl = {
    0,                          /* get */
    0,                          /* set */
    0,                          /* len */
    0,                          /* clear */
    sharedsv_userlock_free,    /* free */
    0,                          /* copy */
    0,                          /* dup */
#ifdef MGf_LOCAL
    0,                          /* local */
#endif
};
/* Support for dual-valued variables */
#ifdef SVf_IVisUV
# define DUALVAR_FLAGS(sv)                             
  ((SvPOK(sv))                                        
  #if defined(SvNOK(sv)) || SvNOKp(sv) ? SVf_NOK          
  : ((SvIsUV(sv)) ? (SVf_IOK | SVf_IVisUV) 
  : ((SvOK(sv)) || SvOKp(sv)) ? SVf_IOK : 0)) 
  #else
# define DUALVAR_FLAGS(sv)                             
  ((SvPOK(sv))                                        
  #if defined(SvNOK(sv)) || SvNOKp(sv) ? SVf_NOK          
  : ((SvOK(sv)) || SvOKp(sv)) ? SVf_IOK : 0) 
  #endif

/* Access to shared things is heavily based on MAGIC 
 * - in mg.h/mg.c/sv.c sense 
 */

/* In any thread that has access to a shared thing there is a "proxy" 
 for it in its own space which has ‘MAGIC’ associated which accesses 
 the shared thing. 
 */
extern const MGVTBL sharedsv_scalar_vtbl; /* Scalars have this vtable */
extern const MGVTBL sharedsv_array_vtbl;  /* Hashes and arrays have this 
   - like 'tie' */
extern const MGVTBL sharedsv_elem_vtbl;   /* Elements of hashes and arrays have 
   this _AS WELL AS_ the scalar magic: 
   The sharedsv_elem_vtbl associates the element with the array/hash and 
   the sharedsv_scalar_vtbl associates it with the value 
 */

/* Get shared aggregate SV pointed to by threads::shared::tie magic object */

#define SHAREDSV_FROM_OBJ(sv) ((SvROK(sv)) ? INT2PTR(SV *, SvIV(SvRV(sv))) : NULL)

/* Return the user_lock structure (if any) associated with a shared SV. 
 * If create is true, create one if it doesn’t exist 
 */
STATIC user_lock *
S_get_userlock(pTHX_SV* ssv, bool create) 
{
MAGIC *mg;
user_lock *ul = NULL;

assert(ssv);
/* XXX Redesign the storage of user locks so we don't need a global
 * lock to access them ????? DAPM */
ENTER_LOCK;

/* Version of mg_find that also checks the private signature */
for (mg = SvMAGIC(ssv); mg; mg = mg->mg_moremagic) {
    if ((mg->mg_type == PERL_MAGIC_ext) &&
        (mg->mg_private == UL_MAGIC_SIG))
    {
        break;
    }
}

if (mg) {
    ul = (user_lock*)(mg->mg_ptr);
} else if (create) {
    dTHXc;
    SHARED_CONTEXT;
    ul = (user_lock *) PerlMemShared_malloc(sizeof(user_lock));
    Zero(ul, 1, user_lock);
    /* Attach to shared SV using ext magic */
    mg = sv_magicext(ssv, NULL, PERL_MAGIC_ext, &sharedsv_userlock_vtbl,
                    (char *)ul, 0);
    mg->mg_private = UL_MAGIC_SIG; /* Set private signature */
    recursive_lock_init(aTHX_ &ul->lock);
    COND_INIT(&ul->user_cond);
    CALLER_CONTEXT;
}
LEAVE_LOCK;
return (ul);

/* Given a private side SV tries to find if the SV has a shared backend,
 * by looking for the magic.
 */
static SV *
Perl_sharedsv_find(pTHX_SV *sv)
{
    MAGIC *mg;
    if (SvTYPE(sv) >= SVt_PVMG) {
        switch(SvTYPE(sv)) {
            case SVt_PVAV:
            case SVt_PVHV:


if ((mg = mg_find(sv, PERL_MAGIC_tied))
    && mg->mg_virtual == &sharedsv_array_vtbl) {
    return ((SV *)mg->mg_ptr);
} else break;

default:
    /* This should work for elements as well as they
     * have scalar magic as well as their element magic */
    if ((mg = mg_find(sv, PERL_MAGIC_shared_scalar))
        && mg->mg_virtual == &sharedsv_scalar_vtbl) {
        return ((SV *)mg->mg_ptr);
    } else break;
}
/* Just for tidyness of API also handle tie objects */
if (SvROK(sv) && sv_derived_from(sv, "threads::shared::tie")) {
    return (SHAREDSV_FROM_OBJ(sv));
} else return (NULL);

/* Associate a private SV with a shared SV by pointing the appropriate
 * magics at it.
 * Assumes lock is held.
 */
static void
Perl_sharedsv_associate(pTHX_ SV *sv, SV *ssv)
{
    MAGIC *mg = 0;

    /* If we are asked for any private ops we need a thread */
    assert ( aTHX != PL_sharedsv_space );

    /* To avoid need for recursive locks require caller to hold lock */
    assert ( PL_sharedsv_lock.owner == aTHX );

    switch(SvTYPE(sv)) {
    case SVt_PVAV:
    case SVt_PVHV:
        if (!((mg = mg_find(sv, PERL_MAGIC_tied))
            || mg->mg_virtual != &sharedsv_array_vtbl
            || (SV*) mg->mg_ptr != ssv)) {
            SV *obj = newSV(0);
            sv_setref_iv(obj, "threads::shared::tie", PTR2IV(ssv));
        }
    }
if (mg) {
    sv_unmagic(sv, PERL_MAGIC_tied);
}
mg = sv_magicext(sv, obj, PERL_MAGIC_tied, &sharedsv_array_vtbl,
               (char *)ssv, 0);
mg->mg_flags |= (MGf_COPY|MGrf_DUP);
SvREFCNT_inc_void(ssv);
SvREFCNT_dec(obj);
} break;

default:
if ((SvTYPE(sv) < SVt_PVMG)
|| !(mg = mg_find(sv, PERL_MAGIC_shared_scalar))
|| mg->mg_virtual != &sharedsv_scalar_vtbl
|| (SV*) mg->mg_ptr != ssv)
{
    if (mg) {
        sv_unmagic(sv, PERL_MAGIC_shared_scalar);
    }
    mg = sv_magicext(sv, Nullsv, PERL_MAGIC_shared_scalar,
                     &sharedsv_scalar_vtbl, (char *)ssv, 0);
    mg->mg_flags |= (MGf_DUP
#ifdef MGf_LOCAL
     |MGf_LOCAL
#endif
);
    SvREFCNT_inc_void(ssv);
} break;

assert ( Perl_sharedsv_find(aTHX_ sv) == ssv );
}

/* Given a private SV, create and return an associated shared SV.
 * Assumes lock is held.
 */
STATIC SV *
S_sharedsv_new_shared(pTHX_ SV *sv)
{
    dTHXc;
    SV *ssv;

    assert(PL_sharedsv_lock.owner == aTHX);
    assert(aTHX != PL_sharedsv_space);
SHARED_CONTEXT:
ssv = newSV(0);
SvREFCNT(ssv) = 0; /* Will be upped to 1 by Perl_sharedsv_associate */
sv_upgrade(ssv, SvTYPE(sv));
CALLER_CONTEXT:
Perl_sharedsv_associate(aTHX_ sv, ssv);
return (ssv);
}

/* Given a shared SV, create and return an associated private SV.
 * Assumes lock is held.
 */
STATIC SV *
S_sharedsv_new_private(pTHX_ SV *ssv)
{

    SV *sv;
    assert(PL_sharedsv_lock.owner == aTHX);
    assert(aTHX != PL_sharedsv_space);

    sv = newSV(0);
    sv_upgrade(sv, SvTYPE(ssv));
    Perl_sharedsv_associate(aTHX_ sv, ssv);
    return (sv);
}

/* A threadsafe version of SvREFCNT_dec(ssv) */

STATIC void
S_sharedsv_dec(pTHX_ SV* ssv)
{
    if (! ssv)
        return;

    ENTER_LOCK;
    if (SvREFCNT(ssv) > 1) {
        /* No side effects, so can do it lightweight */
        SvREFCNT_dec(ssv);
    } else {
        dTHXc;
        SHARED_CONTEXT;
        SvREFCNT_dec(ssv);
        CALLER_CONTEXT;
    }
    LEAVE_LOCK;
}
/* Implements Perl-level share() and :shared */

static void 
Perl_sharedsv_share(pTHX_ SV *sv) 
{
    switch(SvTYPE(sv)) {
    case SVt_PVGV:
        Perl_croak(aTHX_ "Cannot share globs yet");
        break;

    case SVt_PVCV:
        Perl_croak(aTHX_ "Cannot share subs yet");
        break;

    default:
        ENTER_LOCK;
        (void) S_sharedsv_new_shared(aTHX_ sv);
        LEAVE_LOCK;
        SvSETHMAGIC(sv);
        break;
    }
}

#ifdef WIN32
/* Number of milliseconds from 1/1/1601 to 1/1/1970 */
#define EPOCH_BIAS 11644473600000.

/* Returns relative time in milliseconds.  (Adapted from Time::HiRes.) */
STATIC DWORD  
S_abs_2_rel_milli(double abs)
{
    double rel;

    /* Get current time (in units of 100 nanoseconds since 1/1/1601) */
    union {
        FILETIME ft;
        __int64  i64;  /*'signed' to keep compilers happy */
    } now;

    GetSystemTimeAsFileTime(&now.ft);

    /* Relative time in milliseconds */
    rel = (abs * 1000.) - (((double)now.i64 / 10000.) - EPOCH_BIAS);
    if (rel <= 0.0) {
        return (0);
    }
return (DWORD)rel;
}

#else
#if defined(OS2)
#define ABS2RELMILLI(abs)             \
do {                                \
  abs -= (double)time(NULL);      \
  if (abs > 0) { abs *= 1000; }   \
  else        { abs  = 0;    }   
} while (0)
#endif /* OS2 */
#endif /* WIN32 */

/* Do OS-specific condition timed wait */

static bool
Perl_sharedsv_cond_timedwait(perl_cond *cond, perl_mutex *mut, double abs)
{
#if defined(NETWARE) || defined(I_MACH_CTHREADS)
  Perl_croak_nocontext("cond_timedwait not supported on this platform");
#else
  # ifdef WIN32
    int got_it = 0;

    cond->waiters++;
    MUTEX_UNLOCK(mut);
    /* See comments in win32/win32thread.h COND_WAIT vis-a-vis race */
    switch (WaitForSingleObject(cond->sem, S_abs_2_rel_milli(abs))) {
      case WAIT_OBJECT_0: got_it = 1; break;
      case WAIT_TIMEOUT:                break;
      default:
        /* WAIT_FAILED? WAIT_ABANDONED? others? */
        Perl_croak_nocontext("panic: cond_timedwait (%ld), GetLastError()");
        break;
    }
    MUTEX_LOCK(mut);
    cond->waiters--;
    return (got_it);
  # else
  #  ifdef OS2
    int rc, got_it = 0;
    STRLEN n_a;

    ABS2RELMILLI(abs);

    if ((rc = DosResetEventSem(*cond,&n_a)) && (rc != ERROR_ALREADY_RESET))
      Perl_rc = rc, croak_with_os2error("panic: cond_timedwait-reset");
  #endif /* OS2 */
  #endif /* WIN32 */

  Perl_croak_nocontext("cond_timedwait not supported on this platform");
#endif /* OS2 */
}
MUTEX_UNLOCK(mut);
if (CheckOSError(DosWaitEventSem(*cond,abs))
    && (rc != ERROR_INTERRUPT))
    croak_with_os2error("panic: cond_timedwait");
if (rc == ERROR_INTERRUPT) errno = EINTR;
MUTEX_LOCK(mut);
return (got_it);
#else /* Hope you're I_PTHREAD! */
struct timespec ts;
int got_it = 0;

ts.tv_sec = (long)abs;
abs -= (NV)ts.tv_sec;
ts.tv_nsec = (long)(abs * 1000000000.0);

CLANG_DIAG_IGNORE_STMT(-Wthread-safety);
/* warning: calling function 'pthread_cond_timedwait' requires holding mutex 'mut' exclusively [-Wthread-safety-analysis] */
switch (pthread_cond_timedwait(cond, mut, &ts)) {
CLANG_DIAG_RESTORE_STMT;
    case 0: got_it = 1; break;
    case ETIMEDOUT: break;
#ifdef OEMVS
    case -1:
        if (errno == ETIMEDOUT || errno == EAGAIN)
            break;
#endif
    default:
        Perl_croak_nocontext("panic: cond_timedwait");
        break;
    }
    return (got_it);
#else /* OS2 */
#endif /* WIN32 */
#endif /* NETWARE || I_MACH_CTHREADS */
}

/* Given a thingy referenced by a shared RV, copy it's value to a private
 * RV, also copying the object status of the referent.
 * If the private side is already an appropriate RV->SV combination, keep
 * it if possible.
 */
STATIC void
S_get_RV(pTHX_ SV *sv, SV *sobj) {
    SV *obj;
    if (! (SvROK(sv) &&
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((obj = SvRV(sv))) &&
(Perl_sharedsv_find(aTHX_obj) == sobj) &&
(SvTYPE(obj) == SvTYPE(sobj)))

{ /* Can't reuse obj */
  if (SvROK(sv)) {
    SvREFCNT_dec(SvRV(sv));
  } else {
    assert(SvTYPE(sv) >= SVt_RV);
    sv_setsv_nomg(sv, &PL_sv_undef);
    SvROK_on(sv);
  }
  obj = S_sharedsv_new_private(aTHX_sobj);
  SvRV_set(sv, obj);
}

if (SvOBJECT(obj)) {
  /* Remove any old blessing */
  SvREFCNT_dec(SvSTASH(obj));
  SVOBJECT_off(obj);
}
if (SvOBJECT(sobj)) {
  /* Add any new old blessing */
  STRLEN len;
  char* stash_ptr = SvPV((SV*) SvSTASH(sobj), len);
  HV* stash = gv_stashpvn(stash_ptr, len, TRUE);
  SVOBJECT_on(obj);
  SvSTASH_set(obj, (HV*)SvREFCNT_inc(stash));
}

/* Every caller of S_get_RV needs this incantation (which cannot go inside
S_get_RV itself, as we do not want recursion beyond one level): */
define get_RV(sv, sobj)                     \
  S_get_RV(aTHX_sv, sobj); \ 
  /* Look ahead for refs of refs */  \
  if (SvROK(sobj)) { \ 
    SvROK_on(SvRV(sv)); \ 
    S_get_RV(aTHX_SvRV(sv), SvRV(sobj)); \ 
  }

/* ---------- PERL_MAGIC_shared_scalar(n) functions ---------- */

/* Get magic for PERL_MAGIC_shared_scalar(n) */

static int
sharedsv_scalar_mg_get(pTHX_SV *sv, MAGIC *mg)
SV *ssv = (SV *) mg->mg_ptr;
assert(ssv);

ENTER_LOCK;
if (SvROK(ssv)) {
    get_RV(sv, SvRV(ssv));
} else {
    sv_setsv_nomg(sv, ssv);
}
LEAVE_LOCK;
return (0);

/* Copy the contents of a private SV to a shared SV.
 * Used by various mg_set()-type functions.
 * Assumes lock is held.
 */
static void
sharedsv_scalar_store(pTHX_ SV *sv, SV *ssv)
{
    dTHXc;
    bool allowed = TRUE;

    assert(PL_sharedsv_lock.owner == aTHX);
    if (!PL_dirty && SvROK(ssv) && SvREFCNT(SvRV(ssv)) == 1) {
        SV *sv = sv_newmortal();
        sv_upgrade(sv, SVt_RV);
        get_RV(sv, SvRV(ssv));
    }
    if (SvROK(sv)) {
        SV *obj = SvRV(sv);
        SV *sobj = Perl_sharedsv_find(aTHX_ obj);
        if (sobj) {
            SHARED_CONTEXT;
            (void)SvUPGRADE(ssv, SVt_RV);
            sv_setsv_nomg(ssv, &PL_sv_undef);
            SvRV_set(ssv, SvREFCNT_inc(sobj));
        }
        SvROK_on(ssv);
        if (SvOBJECT(obj)) {
            /* Remove any old blessing */
            SvREFCNT_dec(SvSTASH(sobj));
            SvOBJECT_off(sobj);
        }
    }
    if (SvOBJECT(sobj)) {
        /* Remove any old blessing */
        SvREFCNT_dec(SvSTASH(sobj));
        SvOBJECT_off(sobj);
    }
    if (SvOBJECT(obj)) {
        SV* fake_stash = newSVpv(HvNAME_get(SvSTASH(obj)),0);
        SvOBJECT_on(sobj);
    }
}
SvSTASH_set(obj, (HV*)fake_stash);
}
CLEALER_CONTEXT;
} else {
    allowed = FALSE;
}
}
else {
    SvTEMP_off(sv);
    SHARED_CONTEXT;
    sv_setsv_nomg(ssv, sv);
    if (SvOBJECT(ssv)) {
        /* Remove any old blessing */
        SvREFCNT_dec(SvSTASH(ssv));
        SvOBJECT_off(ssv);
    }
    if (SvOBJECT(sv)) {
        SV* fake_stash = newSVpv(HvNAME_get(SvSTASH(sv)),0);
        SvOBJECT_on(ssv);
        SvSTASH_set(ssv, (HV*)fake_stash);
    }
    CALLER_CONTEXT;
}
if (!allowed) {
    Perl_croak(aTHX_, "Invalid value for shared scalar");
}

/* Set magic for PERL_MAGIC_shared_scalar(n) */

static int
sharedsv_scalar_mg_set(pTHX_SV *sv, MAGIC *mg)
{
    SV *ssv = (SV*)(mg->mg_ptr);
    assert(ssv);
    ENTER_LOCK;
    if (SvTYPE(ssv) < SvTYPE(sv)) {
        dTHXc;
        SHARED_CONTEXT;
        sv_upgrade(ssv, SvTYPE(sv));
        CALLER_CONTEXT;
    }
    sharedsv_scalar_store(aTHX_, sv, ssv);
    LEAVE_LOCK;
    return (0);
}

/* Free magic for PERL_MAGIC_shared_scalar(n) */
static int
sharedsv_scalar_mg_free(pTHX_ SV *sv, MAGIC *mg)
{
    PERL_UNUSED_ARG(sv);
    ENTER_LOCK;
    if (!PL_dirty
        && SvROK((SV *)mg->mg_ptr) && SvREFCNT(SvRV((SV *)mg->mg_ptr)) == 1) {
        SV *sv = sv_newmortal();
        sv_upgrade(sv, SVt_RV);
        get_RV(sv, SvRV((SV *)mg->mg_ptr));
    }
    S_sharedsv_dec(aTHX_ (SV*)mg->mg_ptr);
    LEAVE_LOCK;
    return (0);
}

/*
 * Called during cloning of PERL_MAGIC_shared_scalar(n) magic in new thread
 */
static int
sharedsv_scalar_mg_dup(pTHX_ MAGIC *mg, CLONE_PARAMS *param)
{
    PERL_UNUSED_ARG(param);
    SvREFCNT_inc_void(mg->mg_ptr);
    return (0);
}

#ifdef MGf_LOCAL
/*
 * Called during local $shared
 */
static int
sharedsv_scalar_mg_local(pTHX_ SV* nsv, MAGIC *mg)
{
    MAGIC *nmg;
    SV *ssv = (SV *) mg->mg_ptr;
    if (ssv) {
        ENTER_LOCK;
        SvREFCNT_inc_void(ssv);
        LEAVE_LOCK;
    }
    nmg = sv_magicext(nsv, mg->mg_obj, mg->mg_type, mg->mg_virtual,
                      mg->mg_ptr, mg->mg_len);
    nmg->mg_flags   = mg->mg_flags;
    nmg->mg_private = mg->mg_private;

    return (0);
}
const MGVTBL sharedsv_scalar_vtbl = {
    sharedsv_scalar_mg_get,     /* get */
    sharedsv_scalar_mg_set,     /* set */
    0,                          /* len */
    0,                          /* clear */
    sharedsv_scalar_mg_free,    /* free */
    0,                          /* copy */
    sharedsv_scalar_mg_dup,     /* dup */
#ifdef MGf_LOCAL
    sharedsv_scalar_mg_local,   /* local */
#endif
};

/* ------------ PERL_MAGIC_tiedelem(p) functions -------------- */
/* Get magic for PERL_MAGIC_tiedelem(p) */
static int
sharedsv_elem_mg_FETCH(pTHX_ SV *sv, MAGIC *mg)
{
    dTHXc;
    SV *saggregate = SHAREDSV_FROM_OBJ(mg->mg_obj);
    SV** svp = NULL;

    ENTER_LOCK;
    if (saggregate) { /* During global destruction, underlying aggregate may no longer exist */
        if (SvTYPE(saggregate) == SVt_PVAV) {
            assert ( mg->mg_ptr == 0 );
            SHARED_CONTEXT;
            svp = av_fetch((AV*) saggregate, mg->mg_len, 0);
        } else {
            char *key = mg->mg_ptr;
            I32 len = mg->mg_len;
            assert ( mg->mg_ptr != 0 );
            if (mg->mg_len == HEf_SVKEY) {
                STRLEN slen;
                key = SvPV((SV *)mg->mg_ptr, slen);
                len = slen;
                if (SvUTF8((SV *)mg->mg_ptr)) {
                    len = -len;
                }
            }
            SHARED_CONTEXT;
            svp = hv_fetch((HV*) saggregate, key, len, 0);
        }
    } else {
    }
}

---

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CALLER_CONTEXT;
}
if (svp) {
/* Exists in the array */
if (SvROK(*svp)) {
    get_RV(sv, SvRV(*svp));
} else {
/* Sary->[elem] or Sary->{elem} is a scalar */
    Perl_sharedsv_associate(aTHX_sv, *svp);
    sv_setsv(sv, *svp);
}
} else {
/* Not in the array */
    sv_setsv(sv, &PL_sv_undef);
}
LEAVE_LOCK;
return (0);

/* Set magic for PERL_MAGIC_tiedelem(p) */

static int
sharedsv_elem_mg_STORE(pTHX_ SV *sv, MAGIC *mg)
{
dTHXc;
SV *saggregate = SHAREDSDK_FROM_OBJ(mg->mg_obj);
SV **svp;
U32 dualvar_flags = DUALVAR_FLAGS(sv);

/* Theory - SV itself is magically shared - and we have ordered the
   magic such that by the time we get here it has been stored
to its shared counterpart
*/
ENTER_LOCK;
assert(saggregate);
if (SvTYPE(saggregate) == SVt_PVAV) {
    assert ( mg->mg_ptr == 0 );
    SHARED_CONTEXT;
    svp = av_fetch((AV*) saggregate, mg->mg_len, 1);
} else {
    char *key = mg->mg_ptr;
    I32 len = mg->mg_len;
    assert ( mg->mg_ptr != 0 );
    if (mg->mg_len == HEf_SVKEY) {
        STRLEN slen;
        key = SvPV((SV *)mg->mg_ptr, slen);
        len = slen;
        if (SvUTF8((SV *)mg->mg_ptr)) {
len = -len;
}

/* Clear magic for PERL_MAGIC_tiedelem(p) */

static int
sharedsv_elem_mg_DELETE(pTHX_ SV *sv, MAGIC *mg)
{
    dTHXc;
    MAGIC *shmg;
    SV *saggregate = SHAREDSV_FROM_OBJ(mg->mg_obj);

    /* Object may not exist during global destruction */
    if (!saggregate)
        return (0);

    ENTER_LOCK;
    sharedsv_elem_mg_FETCH(aTHX_ sv, mg);
    if ((shmg = mg_find(sv, PERL_MAGIC_shared_scalar))
        sharedsv_scalar_mg_get(aTHX_ sv, shmg);
    if (SvTYPE(saggregate) == SVt_PVAV)
    { SHARED_CONTEXT;
      av_delete((AV*) saggregate, mg->mg_len, G_DISCARD);
    } else {
      char *key = mg->mg_ptr;
      I32 len = mg->mg_len;
      assert ( mg->mg_ptr != 0 );
      if (mg->mg_len == HEf_SVKEY) {
        STRLEN slen;
        key = SvPV((SV*)mg->mg_ptr, slen);
        len = slen;
        if (SvUTF8((SV*)mg->mg_ptr)) {
          len = -len;
        }
      } SHARED_CONTEXT;
    }

    LEAVE_LOCK;
    return (0);
}
(void) hv_delete((HV*) saggregate, key, len, G_DISCARD);
}
CALLERCONTEXT;
LEAVELOCK;
return (0);
}

/* Called during cloning of PERL_MAGIC_tiedelem(p) magic in new
* thread */

static int
sharedsv_elem_mg_dup(pTHX_MAGIC *mg, CLONE_PARAMS *param)
{
    PERLUNUSED_ARG(param);
    SvREFCNTinc_void(SHAREDSV_FROM_OBJ(mg->mg_obj));
    assert(mg->mg_flags & MGf_DUP);
    return (0);
}

const MGVTBL sharedsv_elem_vtbl = {
    sharedsv_elem_mg_FETCH,     /* get */
    sharedsv_elem_mg_STORE,     /* set */
    0,                          /* len */
    sharedsv_elem_mg_DELETE,    /* clear */
    0,                          /* free */
    0,                          /* copy */
    sharedsv_elem_mg_dup,       /* dup */
#ifdef MGf_LOCAL
    0,                          /* local */
#endif
};

/* ----------- PERL_MAGIC_tied(P) functions ----------- */

/* Len magic for PERL_MAGIC_tied(P) */

static U32
sharedsv_array_mg_FETCHSIZE(pTHX_SV *sv, MAGIC *mg)
{
    dTHXc;
    SV *ssv = (SV *) mg->mg_ptr;
    U32 val;
    PERLUNUSED_ARG(sv);
    SHARED_EDIT;
    if (SvTYPE(ssv) == SVt_PVAV) {
        val = av_len((AV*) ssv);
    } else {
        /* Not actually defined by tie API but ... */
    }

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val = HvUSEDKEYS((HV*) ssv);
}
SHARED_RELEASE;
return (val);
}

/* Clear magic for PERL_MAGIC_tied(P) */

static int
sharedsv_array_mg_CLEAR(pTHX_ SV *sv, MAGIC *mg)
{
  dTHXc;
  SV *ssv = (SV *) mg->mg_ptr;
  const bool isav = SvTYPE(ssv) == SVt_PVAV;
  PERL_UNUSED_ARG(sv);
  SHARED_EDIT;
  if (!PL_dirty) {
    SV **svp = isav ? AvARRAY((AV *)ssv) : NULL;
    I32 items = isav ? AvFILLp((AV *)ssv) + 1 : 0;
    HE *iter;
    if (!isav) hv_iterinit((HV *)ssv);
    while (isav ? items-- : !(iter = hv_iternext((HV *)ssv))) {
      SV *sv = isav ? *svp++ : HeVAL(iter);
      if (!sv) continue;
      if ( (SvOBJECT(sv) || (SvROK(sv) && (sv = SvRV(sv))))
           && SvREFCNT(sv) == 1 ) {
        SV *tmp;
        PERL_SET_CONTEXT((aTHX = caller_perl));
        tmp = sv_newmortal();
        sv_upgrade(tmp, SVt_RV);
        get_RV(tmp, sv);
        PERL_SET_CONTEXT((aTHX = PL_sharedsv_space));
        }
     }
   }
  if (isav) av_clear((AV*) ssv);
  else      hv_clear((HV*) ssv);
  SHARED_RELEASE;
  return (0);
}

/* Free magic for PERL_MAGIC_tied(P) */

static int
sharedsv_array_mg_free(pTHX_ SV *sv, MAGIC *mg)
{
  PERL_UNUSED_ARG(sv);
  S_sharedsv_dec(aTHX_ (SV*)mg->mg_ptr);
return (0);
}

/*
 * Copy magic for PERL_MAGIC_tied(P)
 * This is called when perl is about to access an element of
 * the array -
 */
#if PERL_VERSION >= 11
static int
sharedsv_array_mg_copy(pTHX_ SV *sv, MAGIC* mg,
            SV *nsv, const char *name, I32 namlen)
#else
static int
sharedsv_array_mg_copy(pTHX_ SV *sv, MAGIC* mg,
            SV *nsv, const char *name, int namlen)
#endif
{
    MAGIC *nmg = sv_magicext(nsv,mg->mg_obj,
                        toLOWER(mg->mg_type),&sharedsv_elem_vtbl,
                        name, namlen);
    PERL_UNUSED_ARG(sv);
    nmg->mg_flags |= MGf_DUP;
    return (1);
}
/* Called during cloning of PERL_MAGIC_tied(P) magic in new thread */

static int
sharedsv_array_mg_dup(pTHX_ MAGIC *mg, CLONE_PARAMS *param)
{
    PERL_UNUSED_ARG(param);
    SvREFCNT_inc_void((SV*)mg->mg_ptr);
    assert(mg->mg_flags & MGf_DUP);
    return (0);
}

const MGVTBL sharedsv_array_vtbl = {
    0,  /* get */
    0,  /* set */
    sharedsv_array_mg_FETCHSIZE,    /* len */
    sharedsv_array_mg_CLEAR,       /* clear */
    sharedsv_array_mg_free,        /* free */
    sharedsv_array_mg_copy,        /* copy */
    sharedsv_array_mg_dup,         /* dup */
#ifdef MGf_LOCAL
    0,  /* local */
#endif
};
/* Recursive locks on a sharedsv.
* Locks are dynamically scoped at the level of the first lock.
*/

static void
Perl_sharedsv_lock(pTHX_ SV *ssv)
{
    user_lock *ul;
    if (! ssv)
        return;
    ul = S_get_userlock(aTHX_ ssv, 1);
    recursive_lock_acquire(aTHX_ &ul->lock, __FILE__, __LINE__);
}

/* Handles calls from lock() builtin via PL_lockhook */

static void
Perl_sharedsv_locksv(pTHX_ SV *sv)
{
    SV *ssv;

    if (SvROK(sv))
        sv = SvRV(sv);
    ssv = Perl_sharedsv_find(aTHX_ sv);
    if (!ssv)
        croak("lock can only be used on shared values");
    Perl_sharedsv_lock(aTHX_ ssv);
}

/* Can a shared object be destroyed?
* True if not a shared,
* or if destroying last proxy on a shared object
*/

#ifdef PL_destroyhook

static bool
Perl_shared_object_destroy(pTHX_ SV *sv)
{
    SV *ssv;

    if (SvROK(sv))
        sv = SvRV(sv);
    ssv = Perl_sharedsv_find(aTHX_ sv);
    if (!ssv)
        croak("lock can only be used on shared values");
    return (!ssv || (SvREFCNT(ssv) <= 1));
}
#endif
/* veto signal dispatch if we have the lock */

#ifdef PL_signalhook

STATIC despatch_signals_proc_t prev_signal_hook = NULL;

STATIC void
S_shared_signal_hook(pTHX)
{
    int us;
    MUTEX_LOCK(&PL_sharedsv_lock.mutex);
    us = (PL_sharedsv_lock.owner == aTHX);
    MUTEX_UNLOCK(&PL_sharedsv_lock.mutex);
    if (us)
        return; /* try again later */
    prev_signal_hook(aTHX);
}
#endif

/* Saves a space for keeping SVs wider than an interpreter. */

static void
Perl_sharedsv_init(pTHX)
{
    dTHXc;
    PL_sharedsv_space = perl_alloc();
    perl_construct(PL_sharedsv_space);
    /* The pair above leaves us in shared context (what dTHX would get),
     * but aTHX still points to caller context */
    aTHX = PL_sharedsv_space;
    LEAVE; /* This balances the ENTER at the end of perl_construct. */
    PERL_SET_CONTEXT((aTHX = caller_perl));
    recursive_lock_init(aTHX, &PL_sharedsv_lock);
    PL_lockhook = &Perl_sharedsv_locksv;
    PL_sharehook = &Perl_sharedsv_share;
#ifdef PL_destroyhook
    PL_destroyhook = &Perl_shared_object_destroy;
#endif
#ifdef PL_signalhook
    if (!prev_signal_hook) {
        prev_signal_hook = PL_signalhook;
        PL_signalhook = &S_shared_signal_hook;
    }
#endif
}
#endif /* USE_ITHREADS */
MODULE = threads::shared        PACKAGE = threads::shared::tie

PROTOTYPES: DISABLE

#ifdef USE_ITHREADS

void
PUSH(SV *obj, ...)
CODE:
dTHXc;
SV *sobj = SHAREDSV_FROM_OBJ(obj);
int ii;
for (ii = 1; ii < items; ii++) {
    SV* tmp = newSVsv(ST(ii));
    SV *stmp;
    U32 dualvar_flags = DUALVAR_FLAGS(tmp);
    ENTER_LOCK;
    stmp = S_sharedsv_new_shared(aTHX_ tmp);
    sharedsv_scalar_store(aTHX_ tmp, stmp);
    SvFLAGS(stmp) |= dualvar_flags;
    SHARED_CONTEXT;
    av_push((AV*) sobj, stmp);
    SvREFCNT_inc_void(stmp);
    SHARED_RELEASE;
    SvREFCNT_dec(tmp);
}

void
UNSHIFT(SV *obj, ...)
CODE:
dTHXc;
SV *sobj = SHAREDSV_FROM_OBJ(obj);
int ii;
Enter_LOCK;
SHARED_CONTEXT;
av_unshift((AV*)sobj, items - 1);
CALLER_CONTEXT;
for (ii = 1; ii < items; ii++) {
    SV *tmp = newSVsv(ST(ii));
    U32 dualvar_flags = DUALVAR_FLAGS(tmp);
    SV *stmp = S_sharedsv_new_shared(aTHX_ tmp);
    sharedsv_scalar_store(aTHX_ tmp, stmp);
    SHARED_CONTEXT;
    SvFLAGS(stmp) |= dualvar_flags;
    av_store((AV*) sobj, ii - 1, stmp);
    SvREFCNT_inc_void(stmp);
    CALLER_CONTEXT;
}
SvREFCNT_dec(tmp);
}
LEAVE_LOCK;

void POP(SV *obj)
CODE:
   dTHXc;
   SV *sobj = SHAREDSV_FROM_OBJ(obj);
   SV* ssv;
   ENTER_LOCK;
   SHARED_CONTEXT;
   ssv = av_pop((AV*)sobj);
   CALLER_CONTEXT;
   ST(0) = sv_newmortal();
   Perl_sharedsv_associate(aTHX_ST(0), ssv);
   SvREFCNT_dec(ssv);
   LEAVE_LOCK;
   /* XSRETURN(1); - implied */

void SHIFT(SV *obj)
CODE:
   dTHXc;
   SV *sobj = SHAREDSV_FROM_OBJ(obj);
   SV* ssv;
   ENTER_LOCK;
   SHARED_CONTEXT;
   ssv = av_shift((AV*)sobj);
   CALLER_CONTEXT;
   ST(0) = sv_newmortal();
   Perl_sharedsv_associate(aTHX_ST(0), ssv);
   SvREFCNT_dec(ssv);
   LEAVE_LOCK;
   /* XSRETURN(1); - implied */

void EXTEND(SV *obj, IV count)
CODE:
   dTHXc;
   SV *sobj = SHAREDSV_FROM_OBJ(obj);
   SHARED_EDIT;
   av_extend((AV*)sobj, count);
   SHARED_RELEASE;
void
STORESIZE(SV *obj, IV count)

CODE:
dTHXc;
SV *ssv = SHARED_SV_FROM_OBJ(obj);

SHARED_EDIT;
assert(SvTYPE(ssv) == SVt_PVAV);
if (!PL_dirty) {
    SV **svp = AvARRAY((AV *)ssv);
    I32 ix = AvFILLp((AV *)ssv);
    for (; ix >= count; ix--) {
        SV *sv = svp[ix];
        if (!sv)
            continue;
        if ((SvOBJECT(sv) || (SvROK(sv) && (sv = SvRV(sv))))
            && SvREFCNT(sv) == 1)
            {
                SV *tmp;
                PERL_SET_CONTEXT((aTHX = caller_perl));
                tmp = sv_newmortal();
                sv_upgrade(tmp, SVt_RV);
                get_RV(tmp, sv);
                PERL_SET_CONTEXT((aTHX = PL_sharedsv_space));
            }
        }
    }
    av_fill((AV*) ssv, count - 1);
    SHARED_RELEASE;
}

void
EXISTS(SV *obj, SV *index)

CODE:
dTHXc;
SV *sobj = SHARED_SV_FROM_OBJ(obj);
bool exists;
if (SvTYPE(sobj) == SVt_PVAV) {
    SHARED_EDIT;
    exists = av_exists((AV*) sobj, SvIV(index));
} else {
    I32 len;
    STRLEN slen;
    char *key = SvPVutf8(index, slen);
    len = slen;
    if (SvUTF8(index)) {
        len = -len;
    }
}
void FIRSTKEY(SV *obj)
CODE:
dTHXc;
SV *sobj = SHAREDSV_FROM_OBJ(obj);
char* key = NULL;
I32 len = 0;
HE* entry;
ENTER_LOCK;
SHARED_CONTEXT;
hv_iterinit((HV*) sobj);
entry = hv_iternext((HV*) sobj);
if (entry) {
    I32 utf8 = HeKUTF8(entry);
    key = hv_iterkey(entry,&len);
    CALLER_CONTEXT;
    ST(0) = newSVpvn_flags(key, len, SVs_TEMP | (utf8 ? SVf_UTF8 : 0));
} else {
    CALLER_CONTEXT;
    ST(0) = &PL_sv_undef;
}
LEAVE_LOCK;
/* XSRETURN(1); - implied */

void NEXTKEY(SV *obj, SV *oldkey)
CODE:
dTHXc;
SV *sobj = SHAREDSV_FROM_OBJ(obj);
char* key = NULL;
I32 len = 0;
HE* entry;

PERL_UNUSED_VAR(oldkey);

ENTER_LOCK;
SHARED_CONTEXT;
entry = hv_iternext((HV*) sobj);
if (entry) {
    I32 utf8 = HeKUTF8(entry);
    key = hy_iterkey(entry,&len);
    CALLER_CONTEXT;
    ST(0) = newSVpvn_flags(key, len, SVs_TEMP | (utf8 ? SVf_UTF8 : 0));
} else {
    CALLER_CONTEXT;
    ST(0) = &PL_sv_undef;
}
LEAVE_LOCK;
/* XSRETURN(1); - implied */
void
share(SV *myref)
PROTOTYPE: |@$|]
CODE:
    if (!SvROK(myref))
        Perl_croak(aTHX_ "Argument to share needs to be passed as ref");
    myref = SvRV(myref);
    if (SvROK(myref))
        myref = SvRV(myref);
    Perl_sharedsv_share(aTHX_ myref);
    ST(0) = sv_2mortal(newRV_inc(myref));
/* XSRETURN(1); - implied */

void
cond_wait(SV *ref_cond, SV *ref_lock = 0)
PROTOTYPE: |@$| |@$|
PREINIT:
    SV *ssv;
    perl_cond* user_condition;
    int locks;
    user_lock *ul;
CODE:
    if (!SvROK(ref_cond))
        Perl_croak(aTHX_ "Argument to cond_wait needs to be passed as ref");
    ref_cond = SvRV(ref_cond);
    if (SvROK(ref_cond))
        ref_cond = SvRV(ref_cond);
    ssv = Perl_sharedsv_find(aTHX_ ref_cond);
    if (!ssv)
        Perl_croak(aTHX_ "cond_wait can only be used on shared values");
    ul = S_get_userlock(aTHX_ ssv, 1);
    user_condition = &ul->user_condition;
    if (ref_lock && (ref_cond != ref_lock)) {
        if (!SvROK(ref_lock))
            Perl_croak(aTHX_ "cond_wait lock needs to be passed as ref");
        ref_lock = SvRV(ref_lock);
        if (SvROK(ref_lock)) ref_lock = SvRV(ref_lock);
        ssv = Perl_sharedsv_find(aTHX_ ref_lock);
if (! ssv)
    Perl_croak(aTHX_ "cond_wait lock must be a shared value");
ul = S_get_userlock(aTHX_ ssv, 1);

if (ul->lock.owner != aTHX)
    croak("You need a lock before you can cond_wait");

/* Stealing the members of the lock object worries me - NI-S */
MUTEX_LOCK(&ul->lock.mutex);
ul->lock.owner = NULL;
locks = ul->lock.locks;
ul->lock.locks = 0;

/* Since we are releasing the lock here, we need to tell other */
/* people that it is ok to go ahead and use it */
COND_SIGNAL(&ul->lock.cond);
COND_WAIT(user_condition, &ul->lock.mutex);
while (ul->lock.owner != NULL) {
    /* OK -- must reacquire the lock */
    COND_WAIT(&ul->lock.cond, &ul->lock.mutex);
}
ul->lock.owner = aTHX;
ul->lock.locks = locks;
MUTEX_UNLOCK(&ul->lock.mutex);

int
cond_timedwait(SV *ref_cond, double abs, SV *ref_lock = 0)

PROTOTYPE: [$@%]$;[$@%]
PREINIT:
    SV *ssv;
    perl_cond* user_condition;
    int locks;
    user_lock *ul;
CODE:
    if (! SvROK(ref_cond))
        Perl_croak(aTHX_ "Argument to cond_timedwait needs to be passed as ref");
    ref_cond = SvRV(ref_cond);
    if (SvROK(ref_cond))
        ref_cond = SvRV(ref_cond);
    ssv = Perl_sharedsv_find(aTHX_ ref_cond);
    if (! ! ssv)
        Perl_croak(aTHX_ "cond_timedwait can only be used on shared values");
    ul = S_get_userlock(aTHX_ ssv, 1);

    user_condition = &ul->user_cond;
    if (ref_lock && (ref_cond != ref_lock)) {
        if (! ! SvROK(ref_lock))
Perl_croak(aTHX_ "cond_timedwait lock needs to be passed as ref");
ref_lock = SvRV(ref_lock);
if (SvROK(ref_lock)) ref_lock = SvRV(ref_lock);
ssv = Perl_sharedsv_find(aTHX_ ref_lock);
if (! ssv)
    Perl_croak(aTHX_ "cond_timedwait lock must be a shared value");
ul = S_get_userlock(aTHX_ ssv, 1);
}
if (ul->lock.owner != aTHX)
    Perl_croak(aTHX_ "You need a lock before you can cond_wait");

MUTEX_LOCK(&ul->lock.mutex);
ul->lock.owner = NULL;
locks = ul->lock.locks;
ul->lock.locks = 0;
/* Since we are releasing the lock here, we need to tell other
 * people that it is ok to go ahead and use it */
COND_SIGNAL(&ul->lock.cond);
RETVAL = Perl_sharedsv_cond_timedwait(user_condition, &ul->lock.mutex, abs);
while (ul->lock.owner != NULL) {
    /* OK -- must reacquire the lock... */
    COND_WAIT(&ul->lock.cond, &ul->lockmutex);
}
ul->lock.owner = aTHX;
ul->lock.locks = locks;
MUTEX_UNLOCK(&ul->lock.mutex);

if (RETVAL == 0)
    XSRETURN_UNDEF;
OUTPUT:
    RETVAL

void
cond_signal(SV *myref)
PROTOTYPE: \[$@%
PREINIT:
    SV *ssv;
    user_lock *ul;
CODE:
if (! SvROK(myref))
    Perl_croak(aTHX_ "Argument to cond_signal needs to be passed as ref");
myref = SvRV(myref);
if (SvROK(myref))
    myref = SvRV(myref);
ssv = Perl_sharedsv_find(aTHX_ myref);
if (! ssv)
    Perl_croak(aTHX_ "cond_signal can only be used on shared values");
ul = S_get_userlock(aTHX_, ssv, 1);
if (ckWARN(WARN_THREADS) && ul->lock.owner != aTHX) {
    Perl_warner(aTHX_, packWARN(WARN_THREADS),
                "cond_signal() called on unlocked variable");
}
COND_SIGNAL(&ul->user_cond);

void
cond_broadcast(SV *myref)
PROTOTYPE: [S@%]
PREINIT:
    SV *ssv;
    user_lock *ul;
CODE:
    if (! SvROK(myref))
        Perl_croak(aTHX_, "Argument to cond_broadcast needs to be passed as ref");
    myref = SvRV(myref);
    if (SvROK(myref))
        myref = SvRV(myref);
    ssv = Perl_sharedsv_find(aTHX_, myref);
    if (! ssv)
        Perl_croak(aTHX_, "cond_broadcast can only be used on shared values");
    ul = S_get_userlock(aTHX_, ssv, 1);
    if (ckWARN(WARN_THREADS) && ul->lock.owner != aTHX) {
        Perl_warner(aTHX_, packWARN(WARN_THREADS),
                    "cond_broadcast() called on unlocked variable");
    }
    COND_BROADCAST(&ul->user_cond);

void
bless(SV* myref, ...)
PROTOTYPE: $,$
PREINIT:
    HV* stash;
    SV *ssv;
CODE:
    if (items == 1) {
        stash = CopSTASH(PL_curcop);
    } else {
        SV* classname = ST(1);
        STRLEN len;
        char *ptr;

        if (classname &&
            ! SvGMAGICAL(classname) &&
            ! SvAMAGIC(classname) &&
SvROK(classname))
{
    Perl_croak(aTHX_ "Attempt to bless into a reference");
}
ptr = SvPV(classname, len);
if (ckWARN(WARN_MISC) && len == 0) {
    Perl_warner(aTHX_ packWARN(WARN_MISC),
        "Explicit blessing to " (assuming package main");
}
stash = gv_stashpvn(ptr, len, TRUE);
}
SvREFCNT_inc_void(myref);
(void)sv_bless(myref, stash);
ST(0) = sv_2mortal(myref);
ssv = Perl_sharedsv_find(aTHX_ myref);
if (ssv) {
    dTHXc;
    ENTER_LOCK;
    SHARED_CONTEXT;
    {
        SV* fake_stash = newSVpv(HvNAME_get(stash), 0);
        (void)sv_bless(ssv, (HV*)fake_stash);
    }
    CALLERCONTEXT;
    LEAVE_LOCK;
}
/* XSRETURN(1); - implied */
#endif /* USE_ITHREADS */

BOOT:
{
    #ifdef USE_ITHREADS
    Perl_sharedsv_init(aTHX);
    #endif /* USE_ITHREADS */
}

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http-proxy-agent

================

### An HTTP(s) proxy `http.Agent` implementation for HTTP

[![Build Status](https://github.com/TooTallNate/node-http-proxy-agent/workflows/Node%20CI/badge.svg)](https://github.com/TooTallNate/node-http-proxy-agent/actions?workflow=Node+CI)

This module provides an `http.Agent` implementation that connects to a specified HTTP or HTTPS proxy server, and can be used with the built-in `http` module.

__Note:__ For HTTP proxy usage with the `https` module, check out [*node-https-proxy-agent*](https://github.com/TooTallNate/node-https-proxy-agent).

**Installation**

------------

Install with `npm`:

```bash
$ npm install http-proxy-agent
```

**Example**

-------

```js
var url = require('url');
var http = require('http');
var HttpProxyAgent = require('http-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// HTTP endpoint for the proxy to connect to
console.log('attempting to GET %j', endpoint);
var opts = url.parse(endpoint);

// create an instance of the `HttpProxyAgent` class with the proxy server information
```
var agent = new HttpProxyAgent(proxy);
opts.agent = agent;

http.get(opts, function (res) {
  console.log("response" event!, res.headers);
  res.pipe(process.stdout);
});
```

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* /opt/cola/permits/1181256583_1626450992.09/0/http-proxy-agent-4-0-1-npm-tar-gz/package/README.md

1.2359 open-vswitch 2.13.0-98.el8fdp
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V# New ports collection makefile for: python25

V# Date created: 3 July 2003

V# Whom: Hye-Shik Chang <perky@FreeBSD.org>

V
VMAINTAINER
python@FreeBSD.org

Vinterpreted

Vobject-oriented
VCONFIGURE_TARGET

VMACHINE_ARCH

V-portbld-freebsd
CONFIGURE_SCRIPT

V../configure

# must be relative

CONFIGURE_ENV

V"${CFLAGS}"
a(g6
V
tp539
a(g100
VSVNVERSION
p540
tp541
a(g353
V=
tp542
a(g255
V"echo freebsd"
p543
tp544
a(g6
V/u000a
tp545
a(g100
VMAKE_ENV
p546
tp547
a(g353
V=
tp548
a(g6
V
tp549
a(g100
VVPATH
p550
tp551
a(g353
V=
tp552
a(g255
V"${PYTHON_WRKSRC}"p553
tp554
a(g6
V/u000a
tp555
a(g100
VINSTALLS_SHLIB
p556
tp557
a(g353
V=
tp558
a(g6
V
tp559
a(g6
Vyes
p560
tp561
a(g6
V\u000a

tp562
a(g100
VINSTALL_TARGET
p563
tp564
a(g353
V=

tp565
a(g6
V

tp566
a(g6
Valtinstall
p567
tp568
a(g6
V\u000a

tp569
a(g100
VMAN1
p570
tp571
a(g353
V=

tp572
a(g6
V

p573
tp574
a(g138
V$

p575
tp576
a(g100
VPYTHON_VERSION
p577
tp578
a(g138
V)
V.1

V

V

V

V

V
VPLIST_SUB
p642
tp643
atg353
V=
tp644
atg6
V
 tp645
atg100

VPYVER
p646
tp647
atg353
V=
tp648
atg138
V$	$
 p649
tp650
atg100

VPYTHON_VERSION
p651
tp652
atg212
V:
 tp653
atg100
VS
tp654
atg212
V/python/
 p655
tp656
atg138
V]
 tp657
atg6
V
 tp658
atg262
V\\u005c\\u000a
 p659
tp660
atg6
V
 p661
tp662
tp683
a@g138
V}
tp684
a@g6
V/share/examples/

V${

V"${

V}{

V$a100

VPYTHON_VERSION

V$a100

V\u000a

V$a100

VTOOLSDIR

V$a353

V=

V$a6

V

V$a6

V${

V$a100

VPREFIX

V$a100

V/share/

V$a138

V$}

V$a138

V$}

V$a138

V$}
VS{
p704
tp705
atg100
VPYTHON_VERSION
p706
tp707
atg138
V}
tp708
atg6
\u000a\u000a
p709
tp710
atg100
VBIN_SCRIPTS
p711
tp712
atg353
V=
tp713
atg6
V
tp714
atg6
Vidle
p715
tp716
atg6
V
tp717
atg6
Vpydoc
p718
tp719
atg6
V
tp720
atg6
Vpython
p721
tp722
atg6
V
tp723
atg6
Vpython-shared
p724
tp725
a(g6
V
tp726
a(g6
Vsmtpd.py
p727
tp728
a(g6
V
tp729
a(g6
Vpython-config
p730
tp731
a(g6
V
tp732
a(g262
V\u005c\u000a
p733
tp734
a(g6
V
p735
tp736
a(g6
Vpython-shared-config
p737
tp738
a(g6
V\u000a
p739
a(g100
VBINLINKS_SUB
p740
tp741
a(g353
V=
tp742
a(g6
V
tp743
a(g6
V-e
p744
tp745
a(g6
V
a\(g\)281
V's,smtpd,smtpd$\{PYTHON\_VER\},'
p747
tp748
a\(g\)6
V
tp749
a\(g\)262
V\(\backslash\)u005c\u000a
p750
tp751
a\(g\)6
V-e
p754
tp755
a\(g\)6
V
tp756
a\(g\)281
V's,(idle|pydoc|python-shared|python),\(\backslash\)u005c1$\{PYTHON\_VER\},'
p757
tp758
a\(g\)6
V\(\backslash\)u000a\(\backslash\)u000a
p759
tp760
a\(g\)100
VOPTIONS
p761
tp762
a\(g\)353
V=
tp763
a\(g\)6
V
tp764
a\(g\)6
VTHREADS
p765
tp766
a\(g\)6
V
Enable thread support

Use a larger thread stack
Use UCS4 for unicode support

Use python's internal malloc


\"Enable floating point exception handling\"

\[\text{include <bsd.port.pre.mk}>\]

\[\text{if } \${\text{PYTHON_VERSION}} == \${\text{PYTHON_DEFAULT_VERSION}}>\]
p853
p854
a(g138
V)
V
p856
p857
a(g6
V
V.
p859
p860
a(g6
V\u0000a
V
p861
V
p862
p863
a(g353
V=
V
p864
a(g6
V
V
p865
a(g100
VIF_DEFAULT
p866
p867
a(g353
V=
V
p868
V
p869
V"
V="
p870
a(g6
V\u0000a
V
p871
a(g27
V.else\u0000a
p872
tp873
a(g6
V
atg6
V-D__wchar_t
p895
atg6
V=
wp896
atg353
V=
p897
atg6
Vwchar_t
p898
p899
atg6
\u0000a\u0000a
p900
atg6
\u0000a\u0000a
p901
atg27
V.if !defined(WITHOUT_THREADS)\u0000a
p902
p903
atg6
V
p904
atg6
VCONFIGURE_ARGS+
p905
p906
atg353
V=
p907
atg6
V
p908
atg6
V--with-threads
p909
p910
atg6
\u0000a\u0000a
p911
atg6
VCFLAGS+
p912
p913
atg353
V=
p914
if defined(WITHOUT_HUGE_STACK_SIZE)

-DTHREAD_STACK_SIZE

0x20000
```c
V\u000a
p936
a(g27
V.else\u000a
p937
tp938
a(g6
V
tp939
a(g6
VCFLAGS+
p940
tp941
a(g353
V=
tp942
a(g6
V
p943
tp944
a(g6
V-DTHREAD_STACK_SIZE
p945
tp946
a(g353
V=
tp947
a(g6
V0x100000
p948
tp949
a(g6
V\u000a
p950
a(g27
V.endif # defined(WITHOUT_HUGE_STACK_SIZE)\u000a
p951
tp952
a(g6
V
tp953
a(g6
VCONFIGURE_ENV+
p954
tp955
a(g353
V=
tp956
```
VLDFLAGS

V"${PTHREAD_LIBS} ${LDFLAGS}"
tp977
a(g6
VCONFIGURE_ENV+=
p978
tp979
a(g353
V=
tp980
a(g6
V
p981
tp982
a(g100
VLDFLAGS
p983
tp984
a(g353
V=
tp985
a(g255
V"$LDFLAGS"

p986
tp987
a(g6
V
p988
a(g27
V.endif # defined(LDFLAGS)

p989
tp990
a(g6
V
p991
a(g27
V.endif # !defined(WITHOUT_THREADS)

p992
tp993
a(g6
V
p994
a(g27
V.if !defined(WITHOUT_UCS4) && !defined(WITH_UCS2)

p995
tp996
a(g6
V
p997
a(g6

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VCONFIGURE_ARGS+
p998
tp999
at(g353
V=
tp1000
at(g6
V
tp1001
at(g6
V--enable-unicode
p1002
tp1003
at(g353
V=
tp1004
at(g6
Vucs4
p1005
tp1006
at(g6
V\u000a
tp1007
at(g27
V.endif\u000a
p1008
tp1009
at(g6
V\u000a
tp1010
at(g27
V.if defined(WITHOUT_PYmalloc)\u000a
p1011
tp1012
at(g6
V
tp1013
at(g6
VCONFIGURE_ARGS+
p1014
tp1015
at(g353
V=
tp1016
at(g6
V
p1017
tp1018
a(g6
V--without-pymalloc
p1019
tp1020
a(g6
V\u000a

p1021
a(g27
V.endif\u000a
p1022
tp1023
a(g6
V\u000a

p1024
a(g27
V.if ${ARCH} == i386\u000a
p1025
tp1026
a(g6
V

p1027
a(g6
VPLIST_SUB+

p1028
tp1029
a(g353
V=

tp1030
a(g6
V

p1031
a(g100
VX86_ONLY

p1032
tp1033
a(g353
V=

p1034
a(g255
V"

p1035
tp1036
a(g6
V\u000a

p1037
a(g27
V.else\u000a
p1038
VPLIST_SUB+

if ${ARCH} == amd64 || ${ARCH} == ia64 || ${ARCH} == sparc64 || ${ARCH} == alpha

VPLIST_SUB+
a(g6
V\uu000a
tp1081
a(g27
V.endif\uu000a
p1082
tp1083
a(g6
V
tp1084
a(g27
V.if ${ARCH} == sparc64\uu000a
p1085
tp1086
a(g6
V
tp1087
a(g6
VCFLAGS+
p1088
tp1089
a(g353
V=
tp1090
a(g6
V
p1091
tp1092
a(g6
V-DPYTHON_DEFAULT_RECURSION_LIMIT
p1093
tp1094
a(g353
V=
tp1095
a(g6
V900
p1096
tp1097
a(g6
V\uu000a
tp1098
a(g27
V.endif\uu000a
p1099
tp1100
a(g6
V\uu000a
V
tp1101
a(g27
V.if !exists(/usr/bin/ypcat) # the world with NO_NIS
p1102
tp1103
a(g6
V
tp1104
a(g6
VPLIST_SUB+
tp1105
tp1106
a(g353
V=
tp1107
a(g6
V
tp1108
a(g100
VNO_NIS
p1109
tp1110
a(g353
V=
tp1111
a(g255
V"@comment "
p1112
tp1113
a(g6
V\u000a
tp1114
a(g27
V else\u000a
p1115
tp1116
a(g6
V
tp1117
a(g6
VPLIST_SUB+
tp1118
tp1119
a(g353
V=
tp1120
a(g6
V
tp1121
a(g100
VNO_NIS
p1122
tp1123
a(g353
V=
tp1124
a(g255
V=""
p1125
tp1126
a(g6
V\u000a
tp1127
a(g27
V.endif\u000a
p1128
tp1129
a(g6
V\u000a
tp1130
a(g27
V.if !defined(WITHOUT_IPV6)\u000a
p1131
tp1132
a(g6
V
tp1133
a(g6
VCONFIGURE_ARGS+
p1134
tp1135
a(g353
V=
tp1136
a(g6
V
tp1137
a(g6
V--enable-ipv6
p1138
tp1139
a(g6
V\u000a
tp1140
a(g27
V.else\u000a
p1141
tp1142
a(g6
V
tp1143
a(g6
VCONFIGURE_ARGS+

p1144
tp1145
a(g353
V=
ntp1146
a(g6
V
ntp1147
a(g6
V--disable-ipv6

p1148
tp1149
a(g6
V\u000a
ntp1150
a(g27
V.endif\u000a

p1151
tp1152
a(g6
V\u000a
ntp1153
a(g27
V.if defined(WITH_FPECTL)\u000a

p1154
tp1155
a(g6
V
ntp1156
a(g6
VCONFIGURE_ARGS+

p1157
tp1158
a(g353
V=
ntp1159
a(g6
V
ntp1160
a(g6
V--with-fpectl
p1161
p1162
a\(g6
V\u0000a
t
p1163
a\(g27
V.endif\u0000a
p1164
t
p1165
a\(g6
V\u0000a
t
p1166
a\(g27
V.if \$\{OSVERSION\} \geq 700000\u0000a
p1167
t
p1168
a\(g6
V
p1169
a\(g100
VPLATFOMRS
p1170
t
p1171
a\(g353
V=
t
p1172
a\(g6
Vplat-freebsd4
p1173
t
p1174
a\(g6
V
p1175
a\(g6
Vplat-freebsd5
p1176
t
p1177
a\(g6
V
p1178
a\(g6
Vplat-freebsd6
p1179
t
p1180
a\(g6
V\u0000a
t
p1181
a\(g27
V.elif ${OSVERSION} >= 600000

V

VPLATFORMS

Vplat-freebsd4

V

V

V

V

V

V

V

V

V

V

V

V

V

V
a(g6
Vplat-freebsd4
p1203
tp1204
a(g6
V
tp1205
a(g6
Vplat-freebsd6
p1206
tp1207
a(g6
V
tp1208
a(g6
Vplat-freebsd7
p1209
tp1210
a(g6
V\u000a
tp1211
a(g27
V.endif\u000a
p1212
tp1213
a(g6
V\u000a
tp1214
a(g6
Vpre-patch:
p1215
tp1216
a(g6
V\u000a
p1217
tp1218
a(g138
V${
)p1219
tp1220
a(g100
VMKDIR
p1221
tp1222
a(g138
V}
tp1223
a(g6
tp1309
ag138
V$}
p1310
tp1311
ag100
VSED
p1312
tp1313
ag138
V}
tp1314
ag6
V
tp1315
ag6
V-e
p1316
tp1317
ag6
V
tp1318
ag281
V'ls,^.*$,#!${PREFIX}/bin/${PYTHON_VERSION}',
p1319
tp1320
ag6
V
tp1321
ag262
V\u005c\u000a
p1322
tp1323
ag6
V
p1324
tp1325
ag138
V$

VPATCH_WRKSRC
p1326
tp1327
ag100
V}

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Open Source Used In Intersight Kubernetes Service 1.0.15  26423

V's/\usr/doc/python-docs-..$\{\text{PREFIX}\}/share/doc/python,g'

V$\{\text{PATCH_WRK_SRC}\\Lib/\text{pydoc.py}}\)

V\usr005c\usr000a

V\usr005c\usr000a

V\usr005c\usr000a
VS{
p1374
tp1375
atg100
VREINPLACE_CMD
p1376
tp1377
atg138
V]
tp1378
atg6
V
tp1379
atg6
V-e
p1380
tp1381
atg6
V
tp1382
atg262
Vu005c\u000a
p1383
tp1384
atg6
V
p1385
tp1386
atg281
V's|\u005c( *prefixes = .*\u005c\u000a$$|\u005c1, \"$\{X11BASE\}\"\]|lg'
p1387
tp1388
atg6
V
tp1389
atg262
\u000a
p1390
tp1391
atg6
V
p1392
tp1393
atg138
VS{
p1394
tp1395
atg100
VPATCH_WRKSRCP

p1396

a(g138

V)

p1398

a(g6

V/Lib/site.py

p1399

p1400

a(g6

\u0000a

p1401

p1402

a(g138

VS{

p1403

p1404

a(g100

VREINPLACE_CMD

p1405

p1406

a(g138

V)

p1407

a(g6

V

p1408

a(g6

V-e

p1409

p1410

a(g6

V

p1411

a(g262

\u0000c\u0000a

p1412

p1413

a(g6

V

p1414

p1415

a(g281

V's|\u005c\u000c(ASDLGEN.*\u005c)$$|$[TRUE]]g'

p1416

p1417

a(g6

Open Source Used In Intersight Kubernetes Service 1.0.15 26425
V. if defined(WITH_FPECTL) \&\& ${ARCH} == i386\u000a

VMKDIR

VWRKSRC

V/Modules
"fpectl fpectlmodule.c"

V$WRKSRC

V/Modules/Setup.dist

V.endif

Vpost-configure:
open source used in intersight kubernetes service 1.0.15 26441
V
V
V
V:
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
Open Source Used In Intersight Kubernetes Service 1.0.15 26449

```python
a@g6
V
tp1905
a@g262
V\u005cu000a
p1906
tp1907
a@g6
V
p1908
tp1909
a@g138
V$\}
p1910
tp1911
a@g100
VPYTHONPREFIX_LIBDIR
p1912
tp1913
a@g138
V}
tp1914
a@g6
V/
tp1915
a@g138
V$

Vplatform
p1918
tp1919
a@g138
V}
tp1920
a@g6
V/
tp1921
a@g6
V\u000a
tp1922
a@g27
V.endfor\u000a
p1923
tp1924
a@g6
V
```
V
a(g138
VS{
p1947
tp1948
a(g100
VAWK
p1949
tp1950
a(g138
V}
tp1951
a(g6
V

p1952
a(g281
V'{ print $$0; } \|u005c\|000a/LIBDIR.^u005c.py/$/ & & \!/u005c/bad/ { print $$0 "o"; print $$0 "c"; }'
p1953
tp1954
a(g6
V

p1955
a(g6
V>

p1956
a(g6
V

p1957
a(g138
VS{
p1958
tp1959
a(g100
VPLIST
p1960
tp1961
a(g138
V}
tp1962
a(g6
V\u000a\u000a
p1963
tp1964
a(g24
V@# if openssl 0.9.8 is detected, _sha{256,512} module won’t be installed\u000a
p1965
tp1966
post-install:

@# install config providers

VINSTALL_SCRIPT
V/bin
p2090
tp2091
a(g6
V\u000a
p2092
tp2093
a(g138
V$

VINSTALL_SCRIPT
p2096
tp2097
a(g138
V]

VWRKDIR
p2100
tp2101
a(g100
VPYTHON_VERSION
p2104
tp2105
a(g138
V$

V:
V$\{ 
 p2242 
 tp2243 
 atg100 
 VINSTALL_PROGRAM 
 p2244 
 tp2245 
 atg138 
 V\} 
 tp2246 
 atg6 
 V 
 tp2247 
 atg262 
 V/u005c/u000a 
 p2248 
 tp2249 
 atg6 
 V 
 p2250 
 tp2251 
 atg138 
 V$\{ 
 p2252 
 tp2253 
 atg100 
 VSHARED_WRK_SRC 
 p2254 
 tp2255 
 atg138 
 V\} 
 tp2256 
 atg6 
 V/ 
 tp2257 
 atg138 
 V$\{ 
 p2258 
 tp2259 
 atg100 
 VPYTHON_VERSION 
 p2260 
 tp2261 
 atg212 
 V: 
 tp2262 
 atg100 
 V$
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Additional libraries installed by ports:

- g212
- g138
- g6
- g262
- u005c-u000a
- p2269
- g6
- p2270
- g138
- v$
- p2272
- g100
- VPREFIX
- p2274
- g138
- v$
- p2276
- g6
- bin
- u000a-u000a
- p2279
- g24
- v@# additional files installing by ports
- u000a
- p2281
- g6
- v$
- p2284
```python
V

if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}:

for f in V:

    V

$V\{${VBIN_SCRIPTS}$}\n
```
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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

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* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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<signature of Ty Coon>, 1 April 1989
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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
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/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
slave/kpropd_rpc.c
slave/kproplog.c

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1.2388 libkmod 26-1

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1.2390 merge-stream 2.0.0

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1.2392 ipaddr.js 1.9.1

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1.2394 libestr 0.1.10 2.1

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1.2396 npm-registry-fetch 4.0.7

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1.2398 deep-extend 0.6.0

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1.2404 go-connections 0.4.0

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@end enumerate

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@item
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1.2428 libpcre 2:8.39 12
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This package was put together by me, Mark Baker <mbaker@iee.org> from the original sources obtained from ftp.csx.cam.ac.uk:/pub/software/programming/pcre.

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THE BASIC LIBRARY FUNCTIONS
-----------------------------

Written by: Philip Hazel
Email local part: ph10
THE C++ WRAPPER FUNCTIONS

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1.2429 iptables-libs 1.8.2-16.el8

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1.2431 socks-proxy-agent 4.0.2

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socks-proxy-agent

============

### A SOCKS proxy `http.Agent` implementation for HTTP and HTTPS

[[Build Status](https://travis-ci.org/TooTallNate/node-socks-proxy-agent.svg?branch=master)](https://travis-ci.org/TooTallNate/node-socks-proxy-agent)
This module provides an `http.Agent` implementation that connects to a specified SOCKS proxy server, and can be used with the built-in `http` or `https` modules.

It can also be used in conjunction with the `ws` module to establish a WebSocket connection over a SOCKS proxy. See the "Examples" section below.

Installation
------------

Install with `npm`:

```bash
$ npm install socks-proxy-agent
```

Examples
--------

#### `http` module example

```js
var url = require('url');
var http = require('http');
var SocksProxyAgent = require('socks-proxy-agent');

// SOCKS proxy to connect to
var proxy = process.env.socks_proxy || 'socks://127.0.0.1:9050';
console.log('using proxy server %j', proxy);

// HTTP endpoint for the proxy to connect to
console.log('attempting to GET %j', endpoint);
var opts = url.parse(endpoint);

// create an instance of the `SocksProxyAgent` class with the proxy server information
var agent = new SocksProxyAgent(proxy);
opts.agent = agent;

http.get(opts, function (res) {
  console.log("response" event!", res.headers);
  res.pipe(process.stdout);
});
```

#### `https` module example
```js
var url = require('url');
var https = require('https');
var SocksProxyAgent = require('socks-proxy-agent');

// SOCKS proxy to connect to
var proxy = process.env.socks_proxy || 'socks://127.0.0.1:9050';
console.log('using proxy server %j', proxy);

// HTTP endpoint for the proxy to connect to
console.log('attempting to GET %j', endpoint);
var opts = url.parse(endpoint);

// create an instance of the `SocksProxyAgent` class with the proxy server information
var agent = new SocksProxyAgent(proxy);
opts.agent = agent;

https.get(opts, function (res) {
  console.log("response" event!, res.headers);
  res.pipe(process.stdout);
});
```

### `ws` WebSocket connection example

```js
var WebSocket = require('ws');
var SocksProxyAgent = require('socks-proxy-agent');

// SOCKS proxy to connect to
var proxy = process.env.socks_proxy || 'socks://127.0.0.1:9050';
console.log('using proxy server %j', proxy);

// WebSocket endpoint for the proxy to connect to
var endpoint = process.argv[2] || 'ws://echo.websocket.org';
console.log('attempting to connect to WebSocket %j', endpoint);
var agent = new SocksProxyAgent(proxy);

var socket = new WebSocket(endpoint, { agent: agent });
socket.on('open', function () {
  console.log("open" event!);
  socket.send('hello world');
});
```
socket.on('message', function (data, flags) {
    console.log("message" event! %j %j", data, flags);
    socket.close();
});
```

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* /opt/cola/permits/1108551155_1606175782.68/0/socks-proxy-agent-4-0-2-4-tgz/package/README.md

1.2432 githubcommattngorunewidth 0.0.6

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This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.
Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauermann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detelsf(detelfs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.) Boost Software License - Version 1.0 - August 17th, 2003

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--- end ---

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[#{mpl]
# MPL Support, <boost/mp11/mpl.hpp>
:toc:
:toc-title:
:idprefix:
The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

### 1.2438 tslib 2.3.1

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```
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### 1.2439 libcapbin 1:2.25 1.2

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1.2452 nvidia-container-runtime
2.0.0+docker18.09.7 3

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1.2453 default-jre-headless 2:1.11-71

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### 1.2467 common 0.30.0

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// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
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    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.2476 busybox-initramfs 1:1.27.2 2ubuntu3.3

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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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**1.2484 python3-requests-unixsocket 0.1.5 3**

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Upstream-Name: requests-unixsocket
Source: https://github.com/msabramo/requests-unixsocket

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

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

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

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

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:

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.)
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.

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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.

@item
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.

@item
Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
@end enumerate

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.

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@enumerate a
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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.

@item
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.
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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page
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```markdown
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@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year} @var{name of author}
@end smallexample
```

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USA.

```markdown
@end smallexample
```

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You should also get your employer (if you work as a programmer) or your
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necessary. Here is a sample; alter the names:

```markdown
@smallexample
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`Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample
```

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

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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.

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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 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.
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Go support for Protocol Buffers - Google's data interchange format

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1.2505 shelljs 0.8.4

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1.2508 on-finished 2.3.0

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1.2509 python3-hawkey 0.48.0-5.el8

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// License information for the exposed API.

// For more information: http://goo.gl/8us55a

type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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= vendor/github.com/golang/protobuf/LICENSE 939cce1ec101726fa754e698ac871622

package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin     string
    Option     string
    Severity   string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version    string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(` It is replaced by "%v"`, n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}
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The following statuses are used to indicate the state of support/deprecation in a given release.

- deprecated  = "deprecated"  // deprecated, but still completely functional
- ignored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
- removed     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
- newdefault  = "newdefault"  // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
- unsupported = "unsupported" // the plugin/option is not supported by the migration tool

// The following statuses are used for selecting/filtering notifications
all = "all"  // show all statuses

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{% endpanel %}

{% panel style="info", title="TL;DR" %}
- Copy files to and from Containers in a cluster
{% endpanel %}

# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

{% panel style="warning", title="Install Tar" %}
Copy requires that *tar* be installed in the container image.
{% endpanel %}

{% method %}

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `~<path>`
- Remote file format is `~<pod-name>:<path>`
## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `\<path>`
- Remote file format is `\<pod-name>:\<path>`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```
```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```
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package simulator


// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{   LicenseKey: "00000-00000-00000-00000-00000",   EditionKey: "eval",   }
Name: "Evaluation Mode",
Properties: []types.KeyAnyValue{
  
  Key: "feature",
  Value: types.KeyValue{
    Key: "serialuri:2",
    Value: "Remote virtual Serial Port Concentrator",
  },
  
  Key: "feature",
  Value: types.KeyValue{
    Key: "dvs",
    Value: "vSphere Distributed Switch",
  },
}

}

}

}


type LicenseManager struct {
  mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
  m := &LicenseManager{
    Self = ref
    Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}
  }

  if Map.IsVPX() {
    am := Map.Put(&LicenseAssignmentManager{}).Reference()
    m.LicenseAssignmentManager = &am
  }

  return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
  body := &methods.AddLicenseBody{
    Res: &types.AddLicenseResponse{},
  }

  for _, license := range m.Licenses {
    if license.LicenseKey == req.LicenseKey {
      body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
      return body
    }
  }
}


m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
    LicenseKey: req.LicenseKey,
    Labels:     req.Labels,
})

body.Res.ReturnVal = licenseInfo(req.LicenseKey, req.Labels)

return body

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
            return body
        }
    }

    return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{

    }

    for i := range m.Licenses {
        license := &m.Licenses[i]

        if req.LicenseKey != license.LicenseKey {
            continue
        }

        body.Res = new(types.UpdateLicenseLabelResponse)

        for j := range license.Labels {
            label := &license.Labels[j]

            if label.Key == req.LabelKey {
                if req.LabelValue == "" {
                    license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
                } else {
                    label.Value = req.LabelValue
                }
            }
        }
    }

    return body
}
license.Labels = append(license.Labels, types.KeyValue{
    Key:   req.LabelKey,
    Value: req.LabelValue,
})

return body

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {
            EntityId: req.EntityId,
            AssignedLicense: EvalLicense,
        },
    }

    return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {

info := EvalLicense

info.LicenseKey = key
info.Labels = labels

return info
}

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da3082248d796df35f98d787c5cfcf2bb5b6,
Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

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  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
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  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
   <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text" select="$rest"/>
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1.2526 libxi 2:1.7.9

1.2526.1 Available under license:

No license file was found, but licenses were detected in source scan.

--- libxi-1.7.9.orig/.gitignore
+++ libxi-1.7.9/.gitignore
@@ -0,0 +1,78 @@
#
# X.Org module default exclusion patterns
# The next section if for module specific patterns
#
# Do not edit the following section
# GNU Build System (Autotools)
+aclocal.m4
+autom4te.cache/
+autoscan.log
+ChangeLog
+compile
+config.guess
+config.h
+config.h.in
+config.log
+config.ml.in
+config.py
+config.status
+config.status.lineno
+config.sub
+configure
+configure.scan
+depcomp
+.deps/
+INSTALL
+install-sh
+.libs/
+libtool
+libtool.m4
+lmain.sh
+lt~obsolete.m4
+ltoptions.m4
+ltversion.m4
+Makefile
+Makefile.in
+mdate-sh
+missing
+mkinstalldirs
+*.pc
+py-compile
+stamp-h?
+symlink-tree
+texinfo.tex
+ylwrap
+
Do not edit the following section
Edit Compile Debug Document Distribute

Add & Override patterns for libXi

Fix possible free of uninitialized pointer
If the _XReply() call fails, we'll try to free an uninitialized pointer.

https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=849026

Reported-by: Thomas Walker <thwalker3@gmail.com>
Signed-off-by: Emilio Pozuelo Monfort <pochu@debian.org>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Tested-by: Thomas Walker <thwalker3@gmail.com>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit 4c5c8d6246debc06a56120c7ff71b7d1877884d0
Author: Emilio Pozuelo Monfort <pochu@debian.org>
Date:   Tue Oct 25 21:31:19 2016 +0200

Check that allocating a buffer succeeded

Since we are going to write into the buffer, we should make sure the allocation didn't fail.

Reported-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Emilio Pozuelo Monfort <pochu@debian.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7ace3c6c1907a395b542b17add33295b8c85154d
Author: Emilio Pozuelo Monfort <pochu@debian.org>
Date:   Tue Oct 25 21:31:18 2016 +0200

Plug a memory leak

Introduced in commit 19a9cd6.

Reported-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Emilio Pozuelo Monfort <pochu@debian.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 1bdeb431c3cc9ec7e12fdd29a83237f2f228865
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Oct 25 12:43:44 2016 +1000
@@ -1088,7 +1038,7 @@
 Merge branch `multitouch`

Conflicts:
 configure.ac
+ configure.ac

commit 82a631263ef4e6f46c1f33748089db8bf603b095
Conflicts:
- src/XExtInt.c
+ src/XExtInt.c

commit 3ed1b463205295a5e6ba7d570a4cb8dfade51a38
Author: Peter Hutterer <peter.hutterer@who-t.net>
@@ -1293,7 +1243,7 @@
Merge branch 'smooth-scrolling'

Conflicts:
- man/XI.xml
+ man/XI.xml

commit 8ea9ebcedcb99480a5774c7755329a2ca8fda07b
Author: Benjamin Close <Benjamin.Close@clearchain.com>
@@ -3947,16 +3897,16 @@

src/XExtInt.c:xinput_extension_hooks field event_to_wire of type
    XExtensionHooks that has the prototype     Status (*event_to_wire)(
-    Display* /* display */;
-    XEvent* /* re */;
-    xEvent* /* event */
+    Display*/* display */
+    XEvent*/* re */
+    xEvent*/* event */
)
    does not match Status
    _XiEventToWire(
-    register Display     *dpy,          /* pointer to display structure */
-    register XEvent      *re,           /* pointer to client event */
-    register xEvent     **event,        /* wire protocol event */
-    register int         *count);
+    register Display     *dpy,/* pointer to display structure */
+    register XEvent      *re,/* pointer to client event */
+    register xEvent     **event,/* wire protocol event */
+    register int         *count);

    Signed-off-by: Peter Hutterer <peter@cs.unisa.edu.au>

@@ -3975,9 +3925,9 @@

Conflicts:
- .gitignore
commit 7d0977bc02ce4f29c0ed335fcedce4ed7c328259
Author: Peter Hutterer <peter@cs.unisa.edu.au>
--- libxi-1.7.9.orig/autogen.sh
+++ libxi-1.7.9/autogen.sh
@@ -0,0 +1,14 @@
+#! /bin/sh
+
+srcdir=`dirname $0`
+test -z "$srcdir" && srcdir=.
+
+ORIGDIR= pwd
+cd $srcdir
+
+autoreconf -v --install || exit 1
+cd SORIGDIR || exit $?
+
+if test -z "$NOCONFIGURE"; then
+    $srcdir/configure "$@
+fi
--- libxi-1.7.9.orig/debian/README.source
+++ libxi-1.7.9/debian/README.source
@@ -0,0 +1,49 @@
+------------------------------------------------------
+Quick Guide To Patching This Package For The Impatient
+------------------------------------------------------
+
+1. Make sure you have quilt installed
+2. Unpack the package as usual with "dpkg-source -x"
+3. Run the "patch" target in debian/rules
+4. Create a new patch with "quilt new" (see quilt(1))
+5. Edit all the files you want to include in the patch with "quilt edit"
+ (see quilt(1)).
+6. Write the patch with "quilt refresh" (see quilt(1))
+7. Run the "clean" target in debian/rules
+
+Alternatively, instead of using quilt directly, you can drop the patch in to
+debian/patches and add the name of the patch to debian/patches/series.
+
+Guide To The X Strike Force Packages
+------------------------------------
+
The X Strike Force team maintains X packages in git repositories on git.debian.org in the pkg-xorg subdirectory. Most upstream packages are actually maintained in git repositories as well, so they often just need to be pulled into git.debian.org in a "upstream-*" branch. Otherwise, the upstream sources are manually installed in the Debian git repository.

The .orig.tar.gz upstream source file could be generated this "upstream-*" branch in the Debian git repository but it is actually copied from upstream tarballs directly.

Due to X.org being highly modular, packaging all X.org applications as their own independent packages would have created too many Debian packages. For this reason, some X.org applications have been grouped into larger packages: xutils, xutils-dev, x11-apps, x11-session-utils, x11-utils, x11-xfs-utils, x11-xkb-utils, x11-xserver-utils. Most packages, including the X.org server itself and all libraries and drivers are, however maintained independently.

The Debian packaging is added by creating the "debian-*" git branch which contains the aforementioned "upstream-*" branch plus the debian/repository files.

When a patch has to be applied to the Debian package, two solutions are involved:
+ If the patch is available in one of the upstream branches, it may be git'cherry-picked into the Debian repository. In this case, it appears directly in the .diff.gz.
+ Otherwise, the patch is added to debian/patches/ which is managed with quilt as documented in /usr/share/doc/quilt/README.source.

--- libxi-1.7.9.orig/debian/changelog
+++ libxi-1.7.9/debian/changelog
@@ -0,0 +1,500 @@
+libxi (2:1.7.9-1) unstable; urgency=medium
+
+  * New upstream release.
+
+  -- Emilio Pozuelo Monfort <pochu@debian.org> Mon, 23 Jan 2017 21:22:47 +0100
+
+libxi (2:1.7.8-2) unstable; urgency=medium
+
+  * Cherry-pick upstream commit 557b6079, don't free an uninitialized buffer. Closes: #849026.
+
+  -- Emilio Pozuelo Monfort <pochu@debian.org> Thu, 29 Dec 2016 11:22:29 +0100
+
+libxi (2:1.7.8-1) unstable; urgency=medium
+
+ [ Andreas Boll ]
+ * New upstream release.
+ * Fixes CVE-2016-7945 and CVE-2016-7946 (Closes: #840440).
+ * Update d/upstream/signing-key.asc with Matthieu Herrb's key.
+ * Update a bunch of URLs in packaging to https.
+ * Bump Standards-Version to 3.9.8, no changes needed.
+
+ [ Emilio Pozuelo Monfort ]
+ * Acknowledge 2.1.7.6-1.1 NMU.
+ * Cherry-pick upstream commit 7ac03c6c to plug a memory leak in the security fix.
+ * Cherry-pick upstream commit 4c5c8d62, check a buffer was allocated before writing to it.
+ * Bump debhelper compat to 10.
+ * debhelper now calls dh-autoreconf automatically.
+ * debhelper now enables --parallel by default.
+ * Switch to -dbgsym packages.
+ * debhelper passes --disable-silent-rules to configure for us.
+ * Drop explicit build target. dh $@ can handle it.
+
+ -- Emilio Pozuelo Monfort <pochu@debian.org> Tue, 06 Dec 2016 00:50:24 +0100
+
+ +libxi (2:1.7.6-1.1) unstable; urgency=medium
+
+ * Non-maintainer upload.
+ * Mark libxi-dev as Multi-Arch: same. Closes: #689068.
+ * Explicitly specify documentation's anchor ids instead of generating non-reproducible ones during the build (Francois Gouget).
+
+ -- Matthias Klose <doko@debian.org> Thu, 03 Nov 2016 14:52:54 +0100
+
+ +libxi (2:1.7.6-1) unstable; urgency=medium
+
+ * New upstream release.
+ * Remove Drew and Cyril from Uploaders.
+ * Fix package descriptions: input hotplugging has been implemented years ago (closes: #782987). Thanks, Paul Wise!
+
+ -- Julien Cristau <jcristau@debian.org> Sun, 24 Jan 2016 14:15:17 +0100
+
+ +libxi (2:1.7.5-1) unstable; urgency=medium
+
+ [ Andreas Boll ]
+ * New upstream release.
+ * Switch to dh with the autoreconf and quilt addons.
+ * Fix lintian error: pre-depends-directly-on-mulitarch-support libxi6.
+ * Let uscan verify tarball signatures.
+ * Fix Vcs-* fields.
+ * Remove obsolete XC- prefix from Package-Type field.
* Add upstream url.
* Bump standards version to 3.9.6.

[Julien Cristau]
* Delete obsolete debian/xsfbs.

-- Julien Cristau <jcristau@debian.org> Tue, 13 Oct 2015 12:29:20 +0200
+ libxi (2:1.7.4-1) unstable; urgency=low
+ * New upstream release.

-- Maarten Lankhorst <maarten.lankhorst@ubuntu.com> Mon, 21 Jul 2014 09:57:26 +0200
+ libxi (2:1.7.2-1) unstable; urgency=low
+ * New upstream release.

-- Julien Cristau <jcristau@debian.org> Mon, 12 Aug 2013 18:46:14 +0200
+ libxi (2:1.7.1.901-1) unstable; urgency=low
+ * New upstream release candidate.

[Timo Aaltonen]
* control: Bump policy to 3.9.4, no changes.
* control: Bump x11proto-input-dev build-dep to 2.2.99.1.
* libxi6.symbols: Added new symbols.
* rules: Bump shlibs.
* control: Add libfixes-dev to build-deps and libxi-dev Depends.

[Julien Cristau]
* Use dpkg-buildflags.
* Disable silent build rules.
* Bump debhelper compat level to 7.
* Simplify installing manpages.
* Fix clean rule for config.h.in.
* Use dh_prep instead of dh_clean -k.

-- Julien Cristau <jcristau@debian.org> Sun, 30 Jun 2013 15:51:02 +0200
+ libxi (2:1.6.1-1) unstable; urgency=low
+ [Julien Cristau]
* Don't require (fake)root for debian/rules clean.

[Cyril Brulebois]
* New upstream release.
libxi (2:1.6.0-1) unstable; urgency=low

* New upstream release
  - Fix bus error on MIPS N32 (closes: #636920)
  - Bump build deps on x11proto-input-dev
  - Bump lintian standards version to 3.9.3

Julien Cristau

* Pull some more changes from upstream master:
  - Fix wrong button label and mask copy on OS X (fixes regression in the patch for bug#636920)
  - Move version comparison into a helper function
  - Set the RawEvent sourceid (#34240)
  - Upload to unstable.

-- Cyril Brulebois <kibi@debian.org>  Sun, 20 May 2012 17:00:03 +0200

libxi (2:1.5.99.2-1) experimental; urgency=low

* New upstream release candidate:
  - With XI 2.2 support, needed for multitouch.
  - Fix changelog entry for 2:1.4.99.1-1:
    - With XI 2.1 support, no multitouch yet.
  - Bump x11proto-input-dev and libxi1-dev build-deps.
  - Update libxi6.symbols with new symbols and bump shlibs.

-- Cyril Brulebois <kibi@debian.org>  Thu, 22 Dec 2011 14:19:35 +0100

libxi (2:1.5.0-1) experimental; urgency=low

* New upstream release.

-- Cyril Brulebois <kibi@debian.org>  Wed, 21 Dec 2011 10:12:07 +0100

libxi (2:1.4.99.1-1) experimental; urgency=low

* New upstream release candidate:
  - With XI 2.1 support.
  - Update build dependencies accordingly:
    - Bump xutils-dev, x11proto-input-dev, xorg-sgml-doctools.
    - Add xsltproc.
  - Update libxi-dev.install: specs/ and docs/ have been merged.
  - Don't install *.db yet.
  - Add -c4 to dh_makeshlibs.

-- Cyril Brulebois <kibi@debian.org>  Thu, 22 Dec 2011 14:19:35 +0100

libxi (2:1.5.0-1) experimental; urgency=low

* New upstream release.

-- Cyril Brulebois <kibi@debian.org>  Wed, 21 Dec 2011 10:12:07 +0100

libxi (2:1.4.99.1-1) experimental; urgency=low

* New upstream release candidate:
  - With XI 2.1 support.
  - Update build dependencies accordingly:
    - Bump xutils-dev, x11proto-input-dev, xorg-sgml-doctools.
    - Add xsltproc.
  - Update libxi-dev.install: specs/ and docs/ have been merged.
  - Don't install *.db yet.
  - Add -c4 to dh_makeshlibs.
Open Source Used In Intersight Kubernetes Service 1.0.15 28164
+ -- Julien Cristau <jcristau@debian.org> Tue, 08 Feb 2011 00:04:32 +0100
+ 
+libxi (2:1.4.0-1) experimental; urgency=low
+ 
+ * New upstream release.
+ * Update debian/copyright from upstream COPYING.
+ * Bump xutils-dev build-dep for new macros.
+ * Pass --with-xmlto and --without-fop to configure.
+ * Add xmlto, xorg-sgml-doctools, and w3m build-dep accordingly.
+ * Switch dh_install from --list-missing to --fail-missing for added safety.
+ * Get rid of *.xml files before running dh_install.
+ * Ship *.html, *.txt, *.css in libxi-dev.
+ 
+ -- Cyril Brulebois <kibi@debian.org> Fri, 14 Jan 2011 06:22:37 +0100
+
+libxi (2:1.3-6) unstable; urgency=medium
+ 
+ * WireToEvent: Set display member of all events as well (cherry-pick from upstream).
+ 
+ -- Julien Cristau <jcristau@debian.org> Fri, 17 Dec 2010 17:00:44 +0100
+
+libxi (2:1.3-5) unstable; urgency=low
+ 
+ * Cherry-picked fixes from upstream:
+ * man: fix types for XGetSelectedExtensionEvents
+ * Initialize extension with the right number of events (obsoletes our quilt patch)
+ * Don't unlock the Display twice
+ * Fix usage of uninitialized value
+ * Fix memory leak in XIGetSelectedEvents
+ * Always unlock display correctly
+ * man: improve readability of XAllowDeviceEvents
+ * man: fix typo in XIQueryDevice doc (closes: #598964)
+ * Fix typo when converting raw events from the wire
+ * man: XGetDeviceProperty(3) has no parameter 'pending'
+ 
+ -- Cyril Brulebois <kibi@debian.org> Fri, 14 Jan 2011 06:22:37 +0100
+
+libxi (2:1.3-6) unstable; urgency=medium
+ 
+ * WireToEvent: Set display member of all events as well (cherry-pick from upstream).
+ 
+ -- Julien Cristau <jcristau@debian.org> Fri, 17 Dec 2010 17:00:44 +0100
+
+libxi (2:1.3-5) unstable; urgency=low
+ 
+ * Cherry-picked fixes from upstream:
+ * man: fix types for XGetSelectedExtensionEvents
+ * Initialize extension with the right number of events (obsoletes our quilt patch)
+ * Don't unlock the Display twice
+ * Fix usage of uninitialized value
+ * Fix memory leak in XIGetSelectedEvents
+ * Always unlock display correctly
+ * man: improve readability of XAllowDeviceEvents
+ * man: fix typo in XIQueryDevice doc (closes: #598964)
+ * Fix typo when converting raw events from the wire
+ * man: XGetDeviceProperty(3) has no parameter 'pending'
+ 
+ -- Julien Cristau <jcristau@debian.org> Thu, 18 Nov 2010 17:31:04 +0100
+
+libxi (2:1.3-4) unstable; urgency=low
+ 
+ * Add udeb needed for the graphical installer: libxi6-udeb.
+ * Version/Bump some B-D to make sure the udeb gets its dependencies on the (recently-added) udebs rather than on the libraries:
+ * libx11-dev
+ * libxext-dev
+ * Add myself to Uploaders.
+ -- Cyril Brulebois <kibi@debian.org>  Thu, 11 Mar 2010 22:49:49 +0100
+ +libxi (2:1.3-3) unstable; urgency=low
+ + [ Julien Cristau ]
+ + * Rename the build directory to not include DEB_BUILD_GNU_TYPE for no
+ +    good reason. Thanks, Colin Watson!
+ + * Remove myself from Uploaders
+ + * Update patch from 2:1.3-2 to not crash if an app (like, say, anything
+ +    using Qt3) calls libXi functions but the extension isn't available
+ + (closes: #568323). Thanks, Roman Mamedov!
+ + + [ Brice Goglin ]
+ + * Remove Jamey Sharp and Josh Triplett from Uploaders, closes: #568276.
+ + + [ Cyril Brulebois ]
+ + * Bump Standards-Version from 3.8.3 to 3.8.4 (no changes needed).
+ + * Upload to unstable.
+ + +-- Cyril Brulebois <kibi@debian.org>  Wed, 03 Mar 2010 22:14:43 +0100
+ + +libxi (2:1.3-2) unstable; urgency=low
+ + + * Initialize extension with the right number of events. This should fix
+ +    issues when libXi announces more events than the X server will actually
+ +    send for that extension, and thus smashes Xlib's event vector (closes:
+ +    #515734, #515946). Patch by Peter Hutterer, analysis by Nathan Kidd.
+ + * Upload to unstable.
+ + +-- Julien Cristau <jcristau@debian.org>  Wed, 06 Jan 2010 16:23:44 +0000
+ + libxi (2:1.3-1) experimental; urgency=low
+ + + * Bump Standards-Version to 3.8.3.
+ + * Add build-deps on xmlto and asciidoc to build the manpages.
+ + * New upstream release.
+ + +-- Julien Cristau <jcristau@debian.org>  Sat, 21 Nov 2009 18:39:28 +0100
+ + +libxi (2:1.2.99.4-1) experimental; urgency=low
+ + + [ Timo Aaltonen ]
+ + + [ Julien Cristau ]
+ + * Move libxi6-dbg to section 'debug'.
+ + * Drop libxi-dev pre-dependency on x11-common, only needed for upgrades from
+ sarge.
+ * New upstream release candidate.
+ * XInput.h moved here from x11proto-input-dev; add Replaces.
+ * Also remove config.h.in in clean.
+ * Bump shlibs and update symbols.
+
++-- Julien Cristau <jcristau@debian.org> Thu, 29 Sep 2009 14:24:21 +0200
++
++libxi (2:1.2.1-2) unstable; urgency=low
++
++ * Fix typo in debian/rules, which made us build with make -j if
++ DEB_BUILD_OPTIONS didn't ask for it. Thanks to Samuel Thibault for
++ reporting the problem!
++
++-- Julien Cristau <jcristau@debian.org> Mon, 16 Mar 2009 15:27:45 +0100
++
++libxi (2:1.2.1-1) unstable; urgency=low
++
++ * New upstream release.
++
++-- Julien Cristau <jcristau@debian.org> Thu, 12 Mar 2009 16:00:29 +0100
++
++libxi (2:1.2.0-2) unstable; urgency=low
++
++ * Add symbols file.
++ * Upload to unstable.
++
++-- Julien Cristau <jcristau@debian.org> Mon, 16 Mar 2009 15:27:45 +0100
++
++libxi (2:1.2.0-1) experimental; urgency=low
++
++ [ Timo Aaltonen ]
++ * New upstream release.
++ * debian/control:
++  - Bump x11proto-input-dev build-dep to 1.5.
++ * debian/rules:
++  - Bump the shlibs for libxi6.
++
++ [ Julien Cristau ]
++ * Drop -1 debian revisions from build-deps.
++ * Bump Standards-Version to 3.7.3.
++ * Drop the XS- prefix from Vcs-* control fields.
++ * libxi6[,-dbg] don't need to depend on x11-common.
++ * Wrap build-deps in debian/control.
++ * Build-depend on automake and libtool, run autoreconf on build, and allow
++ parallel builds.
++ * Bump libxi-dev's dependency on x11proto-input-dev to 1.5 as well.
++
+ * New upstream release.
+ + * Drop patches applied upstream
+ + * Bump build-dependency on x11proto-input-dev to >= 1.4.
+ + * Install the upstream changelog.
+ + * Add XS-Vcs-Git header in debian/control.
+ + -- Julien Cristau <jcristau@debian.org> Fri, 9 Feb 2007 12:34:51 +0100
+ + libxi (1:1.0.1-4) unstable; urgency=low
+ + * libXi: Various Display locking correctness issues (Closes: #400442)
+ + * Add Josh and myself to Upenders.
+ + -- Jamey Sharp <sharpone@debian.org> Mon, 27 Nov 2006 15:07:34 -0800
+ + libxi (1:1.0.1-3) unstable; urgency=low
+ + * Bring X11R7.1 into unstable. Still closes #377204.
+ + * dbg package has priority extra.
+ + -- Drew Parsons <dparsons@debian.org> Sat, 26 Aug 2006 20:46:35 +1000
+ + libxi (1:1.0.1-2) experimental; urgency=low
+ + * Patch 10_manpage_section.diff sets the man page section according
+ + to the definition given by xutils macros. Set Build-Depends:
+ + xutils-dev to prove the point. Install man pages using
+ + dh_installman. Closes: #377204.
+ + -- Drew Parsons <dparsons@debian.org> Fri, 11 Aug 2006 15:03:27 +1000
+ + libxi (1:1.0.1-1) experimental; urgency=low
+ + * New upstream version (X11R7.1).
+ + - applies patch 01_manpage_location.diff.
+ + * libxi provides no header files, so don't try to install usr/include/X11/*
+ + * Exclude .la from dh_install.
+ + -- Drew Parsons <dparsons@debian.org> Thu, 10 Aug 2006 03:00:53 +1000
+ + libxi (1:1.0.0-6) UNRELEASED; urgency=low
+ + * Test for obj-$(DEB_BUILD_GNU_TYPE) before creating it during build;
+ + idempotency fix.
+ + * Run dh_install w/ --list-missing.
+ + * Drop duplicate x11-common dep in -dev package.
+ + * Bump standards version to 3.7.2.0.
+ * Version x11-common pre-dep in -dev package to 1:7.0.0 to match the rest of Debian.
+ * Bump debhelper compat to 5.
+ * Fix dh_strip call to skip the -dbg package.
+ -- Andres Salomon <dilinger@debian.org> Mon, 17 Jul 2006 01:21:03 -0400
+ +libxi (1:1.0.0-5) unstable; urgency=low
+ + * Reorder makeshlib command in rules file so that ldconfig is run properly. Thanks Drew Parsons and Steve Langasek.
+ + * Add quilt to build-depends
+ + -- David Nusinow <dnusinow@debian.org> Wed, 19 Apr 2006 00:36:48 -0400
+ +libxi (1:1.0.0-4) unstable; urgency=low
+ + * Remove references to xss in -dev and -dbg package descriptions. Thanks Josh Triplett. (closes: #362059)
+ + -- David Nusinow <dnusinow@debian.org> Tue, 11 Apr 2006 20:26:26 -0400
+ +libxi (1:1.0.0-3) unstable; urgency=low
+ + * Upload to unstable
+ + -- David Nusinow <dnusinow@debian.org> Thu, 23 Mar 2006 22:44:42 -0500
+ +libxi (1:1.0.0-2) experimental; urgency=low
+ + * Backport manpage location fix
+ + -- David Nusinow <dnusinow@debian.org> Thu,  9 Mar 2006 23:22:36 -0500
+ +libxi (1:1.0.0-1) experimental; urgency=low
+ + * First modular upload to Debian
+ + * Install manpages in libxi-dev. Thanks Julien Cristau.
+ + -- David Nusinow <dnusinow@debian.org> Thu, 29 Dec 2005 20:53:15 -0500
+ +libxi (1:1.3.0-2) breezy; urgency=low
+ + * Bump libx11-dev and libxext-dev Build-Deps to avoid _XOPEN_SOURCE.
+ + -- Daniel Stone <daniel.stone@ubuntu.com> Sat, 23 Jul 2005 00:28:53 +1000
+ +libxi (1:1.3.0-1) breezy; urgency=low
+ * First libxi release.
+
+ -- Daniel Stone <daniel.stone@ubuntu.com>  Mon, 16 May 2005 22:10:17 +1000
--- libxi-1.7.9.orig/debian/compat
+++ libxi-1.7.9/debian/compat
@@ -0,0 +1 @@
+10
--- libxi-1.7.9.orig/debian/control
+++ libxi-1.7.9/debian/control
@@ -0,0 +1,85 @@
+Source: libxi
+Section: x11
+Priority: optional
+Maintainer: Debian X Strike Force <debian-x@lists.debian.org>
+Build-Depends:
+ debhelper (>= 10),
+ quilt,
+ x11proto-core-dev (>= 7.0.13),
+ x11proto-xext-dev (>= 7.0.3),
+ x11proto-input-dev (>= 2.2.99.1),
+ libx11-dev (>= 2:1.4.99.1),
+ libxext-dev (>= 2:1.1.1-3),
+ libxfixes-dev (>= 5),
+ xmlto,
+ asciidoc (>= 8.4.5),
+ pkg-config,
+ quilt,
+ xutils-dev (>= 1:7.6+2),
+# specs
+ xmlto,
+ xorg-sgml-doctools (>= 1:1.8),
+ xsltproc,
+ w3m,
+Standards-Version: 3.9.8
+Vcs-Git: https://anonscm.debian.org/git/pkg-xorg/lib/libxi.git
+Vcs-Browser: https://anonscm.debian.org/cgit/pkg-xorg/lib/libxi.git
+Homepage: https://www.x.org/
+
+Package: libxi6
+Section: libs
+Architecture: any
+Depends: ${shlibs:Depends}, ${misc:Depends}
+Pre-Depends: ${misc:Pre-Depends}
+Multi-Arch: same
+Description: X11 Input extension library
+ libXi provides an X Window System client interface to the XINPUT
+ extension to the X protocol.
The Input extension allows setup and configuration of multiple input devices, and hotplugging of input devices (to be added and removed on the fly).

More information about X.Org can be found at: <URL:https://www.X.org>

This module can be found at:
+ git://anongit.freedesktop.org/git/xorg/lib/libXi

Package: libxi6-udeb
Package-Type: udeb
Section: debian-installer
Architecture: any
Depends: ${shlibs:Depends}, ${misc:Depends}
Description: X11 Input extension library
+ This is a udeb, or a microdeb, for the debian-installer.

Package: libxi-dev
Section: libdevel
Architecture: any
Multi-Arch: same
Depends:
+ ${shlibs:Depends},
+ ${misc:Depends},
+ libxi6 (= ${binary:Version}),
+ libx11-dev,
+ libxext-dev,
+ libxfixes-dev,
+ x11proto-input-dev (>= 2.1.99.6),
+ xorg-sgml-doctools (>= 1:1.5),
Replaces:
+ x11proto-input-dev (<< 1.9.99)
Description: X11 Input extension library (development headers)
libXi provides an X Window System client interface to the XINPUT extension to the X protocol.
+ The Input extension allows setup and configuration of multiple input devices, and hotplugging of input devices (to be added and removed on the fly).
+ This package contains the development headers for the library found in libxi6. Non-developers likely have little use for this package.
+ More information about X.Org can be found at: <URL:https://www.X.org>
+ This module can be found at:
+ git://anongit.freedesktop.org/git/xorg/lib/libXi
This package was downloaded from
https://xorg.freedesktop.org/releases/individual/lib/

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--- libxi-1.7.9.orig/debian/libxi-dev.install
+++ libxi-1.7.9/debian/libxi-dev.install
@@ -0,0 +1,7 @@
+usr/lib/*/libXi.a
+usr/lib/*/libXi.so
+usr/lib/*/pkgconfig/xi.pc
```
+usr/include/X11/extensions/
+usr/share/doc/libXi/*.html  usr/share/doc/libxi-dev
+usr/share/doc/libXi/*.txt  usr/share/doc/libxi-dev
+usr/share/man/man3
--- libxi-1.7.9.orig/debian/libxi6-udeb.install
+++ libxi-1.7.9/debian/libxi6-udeb.install
@@ -0,0 +1 @@
+usr/lib/*/libXi.so.6*  usr/lib
--- libxi-1.7.9.orig/debian/libxi6.install
+++ libxi-1.7.9/debian/libxi6.install
@@ -0,0 +1 @@
+usr/lib/*/libXi.so.6*
--- libxi-1.7.9.orig/debian/libxi6.symbols
+++ libxi-1.7.9/debian/libxi6.symbols
@@ -0,0 +1,85 @@
+libXi.so.6 libxi6 #MINVER#
+ XAllowDeviceEvents@Base 0
+ XChangeDeviceControl@Base 0
+ XChangeDeviceDontPropagateList@Base 0
+ XChangeDeviceKeyMapping@Base 0
+ XChangeDeviceProperty@Base 2:1.2.0
+ XChangeFeedbackControl@Base 0
+ XChangeKeyboardDevice@Base 0
+ XChangePointerDevice@Base 0
+ XCloseDevice@Base 0
+ XDeleteDeviceProperty@Base 2:1.2.0
+ XDeviceBell@Base 0
+ XFreeDeviceControl@Base 0
+ XFreeDeviceList@Base 0
+ XFreeDeviceMotionEvents@Base 0
+ XFreeDeviceState@Base 0
+ XFreeFeedbackList@Base 0
+ XGetDeviceButtonMapping@Base 0
+ XGetDeviceControl@Base 0
+ XGetDeviceDontPropagateList@Base 0
+ XGetDeviceFocus@Base 0
+ XGetDeviceKeyMapping@Base 0
+ XGetDeviceModifierMapping@Base 0
+ XGetDeviceMotionEvents@Base 0
+ XGetDeviceProperty@Base 2:1.2.0
+ XGetExtensionVersion@Base 0
+ XGetFeedbackControl@Base 0
+ XGetSelectedExtensionEvents@Base 0
+ XGrabDevice@Base 0
+ XIAllowEvents@Base 2:1.2.99.4
+ XIAllowTouchEvents@Base 2:1.5.99.2
+ XIBarrierReleasePointer@Base 2:1.6.99.1
+ XIBarrierReleasePointers@Base 2:1.6.99.1
```
+ XIChangeHierarchy@Base 2:1.2.99.4
+ XIChangeProperty@Base 2:1.2.99.4
+ XIDefineCursor@Base 2:1.2.99.4
+ XIDeleteProperty@Base 2:1.2.99.4
+ XIFreeDeviceInfo@Base 2:1.2.99.4
+ XIGetClientPointer@Base 2:1.2.99.4
+ XIGetFocus@Base 2:1.2.99.4
+ XIGetProperty@Base 2:1.2.99.4
+ XIGetSelectedEvents@Base 2:1.2.99.4
+ XIGrabButton@Base 2:1.2.99.4
+ XIGrabDevice@Base 2:1.2.99.4
+ XIGrabEnter@Base 2:1.2.99.4
+ XIGrabFocusIn@Base 2:1.2.99.4
+ XIGrabKeycode@Base 2:1.2.99.4
+ XIGrabTouchBegin@Base 2:1.5.99.2
+ XIListProperties@Base 2:1.2.99.4
+ XIQueryDevice@Base 2:1.2.99.4
+ XIQueryPointer@Base 2:1.2.99.4
+ XIQueryVersion@Base 2:1.2.99.4
+ XISelectEvents@Base 2:1.2.99.4
+ XISetClientPointer@Base 2:1.2.99.4
+ XISetFocus@Base 2:1.2.99.4
+ XIUndefineCursor@Base 2:1.2.99.4
+ XIUngrabButton@Base 2:1.2.99.4
+ XIUngrabDevice@Base 2:1.2.99.4
+ XIUngrabEnter@Base 2:1.2.99.4
+ XIUngrabFocusIn@Base 2:1.2.99.4
+ XIUngrabKeycode@Base 2:1.2.99.4
+ XIUngrabTouchBegin@Base 2:1.5.99.2
+ XIWarpPointer@Base 2:1.2.99.4
+ XGrabDeviceButton@Base 0
+ XGrabDeviceKey@Base 0
+ XListDeviceProperties@Base 2:1.2.0
+ XListInputDevices@Base 0
+ XOpenDevice@Base 0
+ XQueryDeviceState@Base 0
+ XSelectExtensionEvent@Base 0
+ XSendExtensionEvent@Base 0
+ XSetDeviceButtonMapping@Base 0
+ XSetDeviceFocus@Base 0
+ XSetDeviceMode@Base 0
+ XSetDeviceModifierMapping@Base 0
+ XSetDeviceValuators@Base 0
+ XIUngrabDevice@Base 0
+ XIUngrabDeviceButton@Base 0
+ XIUngrabDeviceKey@Base 0
+ _XiGetDevicePresenceNotifyEvent@Base 2:1.1.2
+ _xibadclass@Base 0
+_xibaddevice@Base 0
+_xibadevent@Base 0
+_xibadmode@Base 0
+_xidevicebusy@Base 0
--- libxi-1.7.9.orig/debian/patches/0001-Documentation-Ids.patch
+++ libxi-1.7.9/debian/patches/0001-Documentation-Ids.patch
@@ -0,0 +1,37 @@
+
+Add explicit ids to the documentation chapters and sections so they are
+identical no matter which architecture (or day or asciidoc version) the
+packages are built on. This is necessary for multi-arch compatibility.
+
+Author: Francois Gouget <fgouget@codeweavers.com>
+
+diff -u libXi-1.7.4.orig/specs/inputlib.xml libXi-1.7.4/specs/inputlib.xml
+-libXi-1.7.4.orig/specs/inputlib.xml2011-12-20 01:28:44.000000000 +0100
+++ libXi-1.7.4/specs/inputlib.xml2015-02-10 16:22:13.817236191 +0100
+@@ -26,7 +26,7 @@
+      <holder>Ardent Computer</holder>
+</copyright>
+
-<legalnotice>
++<legalnotice id="Legal_Notice">
+ <para>
+ Permission to use, copy, modify, and distribute this documentation for any purpose and without
+ fee is hereby granted, provided that the above copyright notice and this permission notice appear
+@@ -36,7 +36,7 @@
+ </para>
+ </legalnotice>
+
-<legalnotice>
++<legalnotice id="Multi_Licensing">
+ <para role="multiLicensing">
+ </para>
+diff -u libXi-1.7.4.orig/specs/library.xml libXi-1.7.4/specs/library.xml
+-libXi-1.7.4.orig/specs/library.xml2011-12-20 01:28:44.000000000 +0100
+++ libXi-1.7.4/specs/library.xml2015-02-10 16:17:31.518591542 +0100
+@@ -1,4 +1,4 @@
+<chapter><title>Input Extension</title>
++<chapter id='Input_Extension'><title>Input Extension</title>
+ <sect1 id='Overview'>
+ <!-- .XS -->
--- libxi-1.7.9.orig/debian/patches/series
+++ libxi-1.7.9/debian/patches/series
@@ -0,0 +1 @@
+0001-Documentation-Ids.patch
--- libxi-1.7.9.orig/debian/rules
+++ libxi-1.7.9/debian/rules
@@ -0,0 +1,29 @@
+#!/usr/bin/make -f
+debian/rules for the Debian libxi package.
+# Copyright  2004 Scott James Remnant <scott@netsplit.com>
+# Copyright  2005 Daniel Stone <daniel@fooishbar.org>
+# Copyright  2005 David Nusinow <dnusinow@debian.org>
+
+# Uncomment this to turn on verbose mode.
+#export DH_VERBOSE=1
+
+# set this to the name of the main shlib's binary package
+PACKAGE = libxi6
+
+%:
+dh $@ --with quilt --builddirectory=build/
+
+override_dh_auto_configure:
+dh_auto_configure -- \\
+--with-xmlto \\
+--without-fop \\
+
+override_dh_install:
+dh_install --fail-missing --exclude=libXi.la --exclude .db --exclude .xml
+
+override_dh_strip:
+dh_strip -p$(PACKAGE) --dbgsym-migration="$(PACKAGE)-dbg (<< 2:1.7.8-1~)"
+dh_strip -N$(PACKAGE)
+
+override_dh_makeshlibs:
+dh_makeshlibs -V'libxi6 (>= 2:1.6.99.1)' --add-udeb=$(PACKAGE)-udeb -- -c4
--- libxi-1.7.9.orig/debian/upstream/signing-key.asc
+++ libxi-1.7.9/debian/upstream/signing-key.asc
@@ -0,0 +1,87 @@
+-----BEGIN PGP PUBLIC KEY BLOCK-----
+
mQGiBD8b0wYRBACph9kJRmP+4JGsCgFlFoy4vFO0DCG+jmkQSN0n1wdlnM/NUtA
+s2ZtoO72AuUmYizA4+EbzBx00UnUo3w3BDmHxUWF+akZiPU9AA/YFY4xC3MY20K
+VN2Jz6YSc4z1jduZRObHm4Hulf8/yqSccsv7FNltrTNNFRs5gYYsqZwCgwau
+RSLRc8WAnHrTWNQDaEFM2rUEAKTjrTjMN8+KGd0BxNX7HiTsQP+++nXNwAYs1oWB
+Yt82YHj9SvRCqCzd1pJqiiYnlnWda11VeMnfdAvkdia8z4lYb0/RunXZJvra3Z
+VDM+i+zq+uU0AYyFyEynX09VSwxKXT6+XW0Xtz2vHq52r6D6mKx8cGHJHZ0hrRjQ
+UEYxA/9SThrQfA9x8ntNoRcf52E/46r7IpCj440oRvc91MfxQZrLWQNPq7sPdllhGQ
+CCO2NIUE15hkdAQ71kpBlSXXU4Sh32p1cU1KuDAkDFib49bKuAs+Pff8v6FZXTdd
+AinFzZ4BsYjatk818aTcu0+7L8jL5GPfeyuyEMKuwzVbx2mLpUGV0ZX1gSHV0
+dGVyZXiIGKfdoby1UKAs8bZmWNIQHdoby10Lm5ldD6lWQQTEQILAQQUCPvxBgQL
+BwMCaxUCAwMVAgEChgEcf4AACgkQ4jtrcLRn8L0/RACfWo3Tmuug+uPRqA6RXxk0
1.2527 mkdirp 1.0.4

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1.2528 libacl 2.2.52 3build1

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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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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.

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

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

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

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.

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

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

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

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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.

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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.

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The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

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work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
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the work, and the source code for shared libraries and dynamically
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c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

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# COPYING.other                                           -*- org -*-
#+TITLE: List of code with permissive licenses as used by GnuPG.
#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

--------------------------------------------------------------------------------

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1.2532 perl-scalar-list-utils 1.49-2.el8

1.2532.1 Available under license:

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This distribution is a replacement for the builtin distribution.

This package contains a selection of subroutines that people have expressed would be nice to have in the perl core, but the usage would not really be high enough to warrant the use of a keyword, and the size so small such that being individual extensions would be wasteful.

After unpacking the distribution, to install this module type

perl Makefile.PL
make
make test
Known Bugs

There is a bug in perl5.6.0 with UV's that are \geq 1 \ll 31. This will show up as tests 8 and 9 of dualvar.t failing.

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Found in path(s):
* /opt/cola/permits/1185063659_1627671606.0/0/perl-Scalar-List-Utils-1.49-2.el8-1.src.rpm-cosi-expand-archive-tVVf6XBL/Scalar-List-Utils-1.49.tar.gz-cosi-expand-archive-fxHt3Ki7/Scalar-List-Utils-1.49/README
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---
abstract: 'Common Scalar and List utility subroutines'
author:
- 'Graham Barr <gbarr@cpan.org>'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 0
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Scalar-List-Utils
no_index:
directory:
  - t
  - inc
requires:
  Test::More: '0'
perl: '5.006'
resources:
  repository: https://github.com/Scalar-List-Utils/Scalar-List-Utils.git
  version: '1.49'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /opt/cola/permits/1185063659_1627671606.0/0/perl-Scalar-List-Utils-1.49-2.el8-1.src.rpm-cosi-expand-archive-tVVf6XBL/Scalar-List-Utils-1.49.tar.gz-cosi-expand-archive-fxHt3Ki7/Scalar-List-Utils-1.49/META.yml
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=head1 NAME

Scalar::Util - A selection of general-utility scalar subroutines

=head1 SYNOPSIS

use Scalar::Util qw(blessed dualvar isdual readonly refaddr reftype
tainted weaken isweak isvstring looks_like_number;set_prototype);
# and other useful utils appearing below

=head1 DESCRIPTION

C<Scalar::Util> contains a selection of subroutines that people have expressed
would be nice to have in the perl core, but the usage would not really be high
efficient to warrant the use of a keyword, and the size would be so small that
being individual extensions would be wasteful.

By default C<Scalar::Util> does not export any subroutines.

=cut

=head1 FUNCTIONS FOR REFERENCES

The following functions all perform some useful activity on reference values.

=head2 blessed

my $pkg = blessed( $ref );

If C<$ref> is a blessed reference, the name of the package that it is blessed
into is returned. Otherwise C<undef> is returned.

$scalar = "foo";
$class  = blessed $scalar;           # undef

$ref    = [];                      # undef
$class  = blessed $ref;            # undef

$obj    = bless [], "Foo";
$class  = blessed $obj;            # "Foo"

Take care when using this function simply as a truth test (such as in 
C<if(blessed $ref)...>) because the package name C<"0"> is defined yet false.

=head2 refaddr

my $addr = refaddr( $ref );

If C<$ref> is reference, the internal memory address of the referenced value is 
returned as a plain integer. Otherwise C<undef> is returned.

$addr = refaddr "string";        # undef
$addr = refaddr $var;            # eg 12345678
$addr = refaddr [];              # eg 23456784

$obj    = bless {}, "Foo";
$addr = refaddr $obj;            # eg 88123488

=head2 reftype

my $type = reftype( $ref );

If C<$ref> is a reference, the basic Perl type of the variable referenced is 
returned as a plain string (such as C<ARRAY> or C<HASH>). Otherwise C<undef> 
is returned.

$type = reftype "string";        # undef
$type = reftype $var;            # SCALAR
$type = reftype [];              # ARRAY

$obj    = bless {}, "Foo";
$type = reftype $obj;            # HASH

=head2 weaken

weaken( $ref );

The lvalue C<$ref> will be turned into a weak reference. This means that it 
will not hold a reference count on the object it references. Also, when the 
reference count on that object reaches zero, the reference will be set to 
def undef. This function mutates the lvalue passed as its argument and returns no
This is useful for keeping copies of references, but you don't want to prevent
the object being DESTROY-ed at its usual time.

```perl
{
    my $var;
    $ref = $\var;
    weaken($ref);  # Make $ref a weak reference
}
# $ref is now undef
```

Note that if you take a copy of a scalar with a weakened reference, the copy
will be a strong reference.

```perl
my $var;
my $foo = $\var;
weaken($foo);  # Make $foo a weak reference
my $bar = $foo;  # $bar is now a strong reference
```

This may be less obvious in other situations, such as `grep()`, for instance
when grepping through a list of weakened references to objects that may have
been destroyed already:

```perl
@object = grep { defined } @object;
```

This will indeed remove all references to destroyed objects, but the remaining
references to objects will be strong, causing the remaining objects to never be
destroyed because there is now always a strong reference to them in the @object
array.

```perl
=head2 unweaken

unweaken( $ref );

=head

Since version 1.36.

The lvalue `REF` will be turned from a weak reference back into a normal
(strong) reference again. This function mutates the lvalue passed as its
argument and returns no value. This undoes the action performed by
L</weaken>.

This function is slightly neater and more convenient than the
otherwise-equivalent code

```perl
my $tmp = $REF;
undef $REF;
$REF = $tmp;
```
(because in particular, simply assigning a weak reference back to itself does not work to unweaken it; \texttt{C<$REF = $REF>} does not work).

=head2 isweak

my $weak = isweak( $ref );

Returns true if \texttt{C<$ref> is a weak reference.}

\begin{verbatim}
$ref  = \$foo;
$weak = isweak($ref);    # false
weaken($ref);
$weak = isweak($ref);    # true
\end{verbatim}

B<NOTE>: Copying a weak reference creates a normal, strong, reference.

\begin{verbatim}
$copy = $ref;
$weak = isweak($copy);  # false
\end{verbatim}

=head1 OTHER FUNCTIONS

=head2 dualvar

my $var = dualvar( $num, $string );

Returns a scalar that has the value \texttt{C<$num>} in a numeric context and the value \texttt{C<$string>} in a string context.

\begin{verbatim}
$foo = dualvar 10, "Hello";
$num = $foo + 2;            # 12
$str = $foo . " world";    # Hello world
\end{verbatim}

=head2 isdual

my $dual = isdual( $var );


If \texttt{C<$var> is a scalar that has both numeric and string values, the result is true.}

\begin{verbatim}
$foo = dualvar 86, "Nix";
$dual = isdual($foo);      # true
\end{verbatim}

Note that a scalar can be made to have both string and numeric content through numeric operations:
$foo = "10";
$dual = isdual($foo);       # false
$bar = $foo + 0;
$dual = isdual($foo);       # true

Note that although C<$!> appears to be a dual-valued variable, it is actually implemented as a magical variable inside the interpreter:

$! = 1;
print("$!\n");               # "Operation not permitted"
$dual = isdual($!);          # false

You can capture its numeric and string content using:

$err = dualvar $!, $!;
$dual = isdual($err);       # true

=head2 isvstring

my $vstring = isvstring( $var );

If C<$var> is a scalar which was coded as a vstring, the result is true.

$vs   = v49.46.48;
$fmt  = isvstring($vs) ? "%vd" : "%s"; #true
printf($fmt,$vs);

=head2 looks_like_number

my $isnum = looks_like_number( $var );

Returns true if perl thinks C<$var> is a number. See L/perlapi/looks_like_number.

=head2 openhandle

my $fh = openhandle( $fh );

Returns C<$fh> itself if C<$fh> may be used as a filehandle and is open, or is a tied handle. Otherwise C<undef> is returned.

$fh = openhandle(*STDIN);   # \*STDIN
$fh = openhandle(\*STDIN);  # \*STDIN
$fh = openhandle("NOTOPEN"); # undef
$fh = openhandle("scalar"); # undef

=head2 readonly
my $ro = readonly( $var );

Returns true if C<$var> is readonly.

sub foo { readonly($_[0]) }

$readonly = foo($bar);       # false
$readonly = foo(0);          # true

=head2 set_prototype

my $code = set_prototype( $code, $prototype );

Sets the prototype of the function given by the C<$code> reference, or deletes it if C<$prototype> is C<undef>. Returns the C<$code> reference itself.

set_prototype \&foo, '$$';

=head2 tainted

my $t = tainted( $var );

Return true if C<$var> is tainted.

$taint = tainted("constant");  # false
$taint = tainted($ENV\{PWD\});   # true if running under -T

=head1 DIAGNOSTICS

Module use may give one of the following errors during import.

=over

=item Weak references are not implemented in the version of perl

The version of perl that you are using does not implement weak references, to use L</isweak> or L</weaken> you will need to use a newer release of perl.

=item Vstrings are not implemented in the version of perl

The version of perl that you are using does not implement Vstrings, to use L</isvstring> you will need to use a newer release of perl.

=back

=head1 KNOWN BUGS

There is a bug in perl5.6.0 with UV’s that are >= 1<<31. This will
show up as tests 8 and 9 of dualvar.t failing

SEE ALSO

L<List::Util>

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Additionally L</weaken> and L</isweak> which are

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# modify it under the same terms as Perl itself.
=head1 KNOWN BUGS

=head2 RT #95409

L<https://rt.cpan.org/Ticket/Display.html?id=95409>

If the block of code given to L</pairmap> contains lexical variables that are captured by a returned closure, and the closure is executed after the block has been re-used for the next iteration, these lexicals will not see the correct values. For example:

my @subs = pairmap {
    my $var = "$a is $b";
    sub { print "$var\n"; }
} one => 1, two => 2, three => 3;
$_->() for @subs;

Will incorrectly print

three is 3
three is 3
three is 3

This is due to the performance optimisation of using C<MULTICALL> for the code block, which means that fresh SVs do not get allocated for each call to the block. Instead, the same SV is re-assigned for each iteration, and all the closures will share the value seen on the final iteration.

To work around this bug, surround the code with a second set of braces. This creates an inner block that defeats the C<MULTICALL> logic, and does get fresh SVs allocated each time:

my @subs = pairmap {
    {
        my $var = "$a is $b";
        sub { print "$var\n"; }
    }
} one => 1, two => 2, three => 3;

This bug only affects closures that are generated by the block but used afterwards. Lexical variables that are only used during the lifetime of the block's execution will take their individual values for each invocation, as normal.

=head2 uniqnum() on oversized bignums
Due to the way that C<uniqnum()> compares numbers, it cannot distinguish
differences between bignums (especially bigints) that are too large to fit in
the native platform types. For example,

my $x = Math::BigInt->new( "1" x 100 );
my $y = $x + 1;

say for uniqnum( $x, $y );

Will print just the value of C<$x>, believing that C<$y> is a numerically-
equivalent value. This bug does not affect C<uniqstr()>., which will correctly
observe that the two values stringify to different strings.

=head1 SUGGESTED ADDITIONS

The following are additions that have been requested, but I have been reluctant
to add due to them being very simple to implement in perl

# How many elements are true

sub true { scalar grep { $_ } @_ }

# How many elements are false

sub false { scalar grep { !$_ } @_ }

=head1 SEE ALSO

L<Scalar::Util>, L<List::MoreUtils>

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Recent additions and current maintenance by
Paul Evans, <leonerd@leonerd.org.uk>.

=cut

Found in path(s):
* /opt/cola/permits/1185063659_1627671606.0/0/perl-Scalar-List-Utils-1.49-2.el8-1.src.rpm-cosi-expand-archive-
tVVf6XBL/Scalar-List-Utils-1.49.tar.gz-cosi-expand-archive-fxHt3Ki7/Scalar-List-Utils-1.49/lib/List/Util.pm
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/*
ppport.h -- Perl/Pollution/Portability Version 3.19_02

Automatically created by Devel::PPPort running under perl 5.010000.

Do NOT edit this file directly! -- Edit PPPort.pm.PL and the includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.
--list-unsupported  list unsupported API
--api-info=name     show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.11.5.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output
of F<ppport.h> if you intend to be backward compatible only
down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and
replace them with C style comments for portability reasons.
Using this option instructs F<ppport.h> to leave C++
comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability
alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability
notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints
unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking
like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>.
This reduces the size of F<ppport.h> dramatically and may be useful
if you want to include F<ppport.h> in smaller modules without
increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows
you to undo the stripping, but only if an appropriate C<Devel::PPPort>
module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by
F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown
by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

```c
#define NEED_function
#define NEED_variable
```

For a global function or variable (used in multiple source files), use:

```c
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_module_GLOBAL</td>
</tr>
<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
</tr>
<tr>
<td>my_sprintf()</td>
<td>NEED_my_sprintf</td>
<td>NEED_my_sprintf_GLOBAL</td>
</tr>
<tr>
<td>my_strlcat()</td>
<td>NEED_my_strlcat</td>
<td>NEED_my_strlcat_GLOBAL</td>
</tr>
<tr>
<td>my_strlcpy()</td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpy_GLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>newRV_noinsic()</td>
<td>NEED_newRV_noinsic</td>
<td>NEED_newRV_noinsic_GLOBAL</td>
</tr>
<tr>
<td>newSV_type()</td>
<td>NEED_newSV_type</td>
<td>NEED_newSV_type_GLOBAL</td>
</tr>
<tr>
<td>newSV_vpn_flags()</td>
<td>NEED_newSV_vpn_flags</td>
<td>NEED_newSV_vpn_flags_GLOBAL</td>
</tr>
<tr>
<td>newSV_vpn_share()</td>
<td>NEED_newSV_vpn_share</td>
<td>NEED_newSV_vpn_share_GLOBAL</td>
</tr>
<tr>
<td>pv_display()</td>
<td>NEED_pv_display</td>
<td>NEED_pv_display_GLOBAL</td>
</tr>
<tr>
<td>pv_escape()</td>
<td>NEED_pv_escape</td>
<td>NEED_pv_escape_GLOBAL</td>
</tr>
<tr>
<td>pv_pretty()</td>
<td>NEED_pv_pretty</td>
<td>NEED_pv_pretty_GLOBAL</td>
</tr>
<tr>
<td>sv_2pv_flags()</td>
<td>NEED_sv_2pv_flags</td>
<td>NEED_sv_2pv_flags_GLOBAL</td>
</tr>
<tr>
<td>sv_2pvbyte()</td>
<td>NEED_sv_2pvbyte</td>
<td>NEED_sv_2pvbyte_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg()</td>
<td>NEED_sv_catpvf_mg</td>
<td>NEED_sv_catpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg_nocontext()</td>
<td>NEED_sv_catpvf_mg_nocontext</td>
<td>NEED_sv_catpvf_mg_nocontext_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the \texttt{DPPP_NAMESPACE} macro. Just \texttt{#define} the macro before including \texttt{ppport.h}:

\begin{verbatim}
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
\end{verbatim}

The default namespace is \texttt{DPPP_}.

=back

The good thing is that most of the above can be checked by running \texttt{ppport.h} on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether \texttt{ppport.h} is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, \texttt{ppport.h} can be run as a Perl script to check your source code. Simply say:

\begin{verbatim}
perl ppport.h
\end{verbatim}

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

\begin{verbatim}
perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
\end{verbatim}

If you only want your code to be scanned without any suggestions for changes, use:

\begin{verbatim}
perl ppport.h --nochanges
\end{verbatim}

You can specify a different \texttt{diff} program or options, using
the C<--diff> option:

    perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

    perl ppport.h --copy=new

To display portability information for the C<newSVpvn> function, use:

    perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

    perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

    perl ppport.h --api-info=/./

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.
item 3.
The name and version of the module you were trying to build.

item 4.
A full log of the build that failed.

item 5.
Any other information that you think could be relevant.

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2010, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '^[RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 & & $] <= 5.009005 }

my $VERSION = 3.19_02;

my %opt = {
    quiet => 0,
    diag  => 1,
    hints => 1,
    changes => 1,
    cplusplus => 0,
}
filter => 1, strip => 0, version => 0, );

my($ppport) = $0 =~ /([\w.]+)$/;
my $LF = '(?:\r\n|\[\r\n\])'; # line feed
my $HS = "[ ]\"; # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/\*';
my $cce = '\*/';
my $rcce = quotemeta $cce;
my $rccs = quotemeta $ccs;

eval {
  require Getopt::Long;
  Getopt::Long::GetOptions(%opt, qw(
    help quiet diag! filter! hints! changes! cplusplus strip version
    patch=s copy=s diff=s compat-version=s
    list-provided list-unsupported api-info=s
  )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
  usage() if "$ARGV" =~ /^--?h(?:elp)?$/;
  die "Getopt::Long not found. Please don't use any options.\n"
}

if ($opt{version}) {
  print "$0 $VERSION.\n"
  exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{compat-version}) {
  my($r,$v,$s) = eval { parse_version($opt{compat-version}) };
  if ($@) {
    die "Invalid version number format: $opt{compat-version}.\n"
  }
  die "Only Perl 5 is supported\n" if $r != 5;
  die "Invalid version number: $opt{compat-version}.\n" if $v >= 1000 || $s >= 1000;
  $opt{compat-version} = sprintf "%d.%03d%03d", $r, $v, $s;
}
else {
  $opt{compat-version} = 5;
}
PERL_SCAN_GREATER_THAN_UV_MAX[5.007003]p
PERL_SCAN_SILENT_ILLDIGIT[5.008001]p
PERL_SHORT_MAX[5.004000]p
PERL_SHORT_MIN[5.004000]p
PERL_SIGNALS_UNSAFE_FLAG[5.008001]p
PERL_SUBVERSION[5.006000]p
PERL_SYS_INIT3[5.006000]
PERL_SYS_INIT][
PERL_SYS_TERM][5.011005]
PERL_UCHAR_MAX[5.004000]p
PERL_UCHAR_MIN[5.004000]p
PERL_UINT_MAX[5.004000]p
PERL_UINT_MIN[5.004000]p
PERL ULONG_MAX[5.004000]p
PERL ULONG_MIN[5.004000]p
PERL_UNUSED_ARG[5.009003]p
PERL_UNUSED_CONTEXT[5.009004]p
PERL_UNUSED_DECL[5.007002]p
PERL_UNUSED_VAR[5.007002]p
PERL_UQUAD_MAX[5.004000]p
PERL_UQUAD_MIN[5.004000]p
PERL_USE_GCC_BRACE_GROUPS[5.009004]p
PERL_USHORT_MAX[5.004000]p
PERL_USHORT_MIN[5.004000]p
PERL_VERSION[5.006000]p
PL_DBsignal[5.005000]p
PL_DBsingle][pn
PL_DBsub][][pn
PL_DBtrace][][pn
PL_Sv[5.005000]p
PL_bufend[5.011004]p
PL_bufptr[5.011004]p
PL_compiling[5.004050]p
PL_copline[5.011004]p
PL_curcop[5.004050]p
PL_curstash[5.004050]p
PL_debstash[5.004050]p
PL_defgv[5.004050]p
PL_diehook[5.004050]p
PL_dirty[5.004050]p
PL_dowarn][pn
PL_errgv[5.004050]p
PL_error_count[5.011004]p
PL_expect[5.011004]p
PL_hexdigit[5.005000]p
PL_hints[5.005000]p
PL_in_my_stash[5.011004]p
PL_in_my[5.011004]p
ST
SV_CONST_RETURN[5.009003]
SV_COW_DROP_PV[5.008001]
SV_COW_SHARED_HASH_KEYS[5.009005]
SV_GMAGIC[5.007002]
SV_HAS_TRAILING_NUL[5.009004]
SV_IMMEDIATE_UNREF[5.007001]
SV_MUTABLE_RETURN[5.009003]
SV_NOSTEAL[5.009002]
SV_SMAGIC[5.009003]
SV_UTF8_NO_ENCODING[5.008001]
SVfARG[5.009005]
SVf_UTF8[5.006000]
SV[5.006000]
SVt_IV
SVt_NV
SVt_PVAV
SVt_PVCV
SVt_PVHV
SVt_PVMG
SVt_PV
Saefree
Slab_Alloc
Slab_Free
Slab_to_rw
StructCopy
SvCUR_set
SvCUR
SvEND
SvGAMAGIC[5.006001]
SvGETMAGIC[5.004050]
SvGROW
SvIOK_UV[5.006000]
SvIOK_notUV[5.006000]
SvIOK_off
SvIOK_only_UV[5.006000]
SvIOK_only
SvIOK_on
SvIOKp
SvIOK
SvIVX
SvIV_nomg[5.009001]
SvIV_set
SvIVx
SvIV
SvIsCOW_shared_hash[5.008003]
SvIsCOW[5.008003]
SvLEN_set
SvLEN|||  
SvLOCK|5.007003|  
SvMAGIC_set|5.009003||p  
SvNIOK_off|||  
SvNIOKp|||  
SvNIOK|||  
SvNOK_off|||  
SvNOK_only|||  
SvNOK_on|||  
SvNOKp|||  
SvNVX|||  
SvNV_set|||  
SvNVx|||  
SvNV|||  
SvOK|||  
SvOOK_offset|5.011000|  
SvOOK|||  
SvPOK_off|||  
SvPOK_only_UTF8|5.006000|  
SvPOK_only|||  
SvPOK_on|||  
SvPOKp|||  
SvPOK|||  
SvPVX_const|5.009003||p  
SvPVX_mutable|5.009003||p  
SvPVX|||  
SvPV_const|5.009003||p  
SvPV_flags_const_nolen|5.009003||p  
SvPV_flags_const|5.009003||p  
SvPV_flags_mutable|5.009003||p  
SvPV_flags|5.007002||p  
SvPV_force_flags_mutable|5.009003||p  
SvPV_force_flags_nolen|5.009003||p  
SvPV_force_flags_nomg_nolen|5.009003||p  
SvPV_force_flags_nomg|5.007002||p  
SvPV_force_mutable|5.009003||p  
SvPV_force_nolen|5.009003||p  
SvPV_force_nomg_nolen|5.009003||p  
SvPV_force_nomg|5.007002||p  
SvPV_force|||p  
SvPV_mutable|5.009003||p  
SvPV_nolen_const|5.009003||p  
SvPV_nolen|5.006000||p  
SvPV_nomg_const_nolen|5.009003||p  
SvPV_nomg_const|5.009003||p  
SvPV_nomg|5.007002||p  
SvPV_renew|5.009003||p  
SvPV_set|||
ckgrep
ckindex
ckjoin
ckifun
cklistio
ckmatch
ckmethod
cknull
ckopen
ckreadline
ckrepeat
ckrequire
ckreturn
ckrfun
ckrvconst
cksassign
cksselect
cksift
cksort
ckspar
ckspl
cksbr
cksbstr
cksvconst
cktrunc
ckunpack
ck_warner_d
ck_warn
ckwarn_common
ckwarn_d
ckwarn
cland
clanything
clinit_zero
clinit
clisanything
clor
clclear_placeholders
closest_cop
convert
cop_free
cr_textfilter
create_eval_scope
croak_nocontext
croak-xs-usage
croak
csighandler
curmad
die_nocontext|||vn
die_where|||
die|||v
dirp_dup|||
div128|||
djSP|||
do_aexec5|||
do_aexec|||
do_aspawn|||
do_binmode][5.004050]
do_chomp|||
do_chop|||
do_close|||
do_delete_local|||
do_dump_pad|||
do_eof|||
do_exec3|||
do_execfree|||
do_exec|||
do_gv_dump][5.006000]
do_gvgv_dump][5.006000]
do_hv_dump][5.006000]
do_ipcctl|||
do_ipcget|||
do_join|||
do_kv|||
do_magic_dump][5.006000]
do_msgrecv|||
do_msgsnd|||
do_oddball|||
do_op_dump][5.006000]
do_op_dumpxml|||
do_open9][5.006000]
do_openn][5.007001]
do_open][5.004000]
do_pmop_dump][5.006000]
do_pmop_xmlmdump|||
do_print|||
do_readline|||
do_seek|||
do_semop|||
do_shmio|||
do_smartmatch|||
do_spawn_nowait|||
do_spawn|||
do_sprintf|||
do_sv_dump][5.006000]
do_sysseek|||
get_db_sub||
get_debug_opts||
get_hash_seed||
get_hv[5.006000]|p
get_isa_hash||
get_mstats||
get_no_modify||
get_num||
get_op_descs[5.005000]
get_op_names[5.005000]
get_opargs||
get_ppaddr[5.006000]
get_re_arg||
get_sv[5.006000]|p
get_vtbl[5.005030]
getcwd_sv[5.007002]
getenv_len||
glob_2number||
glob_assign_glob||
glob_assign_ref||
gp_dup||
gp_free||
gp_ref||
grok_bin[5.007003]|p
grok_hex[5.007003]|p
grok_number[5.007002]|p
grok_numeric_radix[5.007002]|p
grok_oct[5.007003]|p
group_end||
gv_AVadd||
gv_HVadd||
gv_IOadd||
gv_SVadd||
gv_add_by_type[5.011000]
gv_autoload4[5.004000]
gv_check||
gv_const_sv[5.009003]
gv_dump[5.006000]
gv_efullname3[5.004000]
gv_efullname4[5.006001]
gv_efullname||
gv_ename||
gv_fetchfile_flags[5.009005]
gv_fetchfile||
gv_fetchmeth_autoload[5.007003]
gv_fetchmethod_autoload[5.004000]
gv_fetchmethod_flags[5.011000]
gv_fetchmethod||
gv_fetchmeth

hev_fetchpvn_flags[5.009002]
p
hev_fetchpvs[5.009004]
p
hev_fetchpv

hev_fetchsv[5.009002]
p
hev_fullname3[5.004000]
hev_fullname4[5.006001]
hev_fullname

hev_get_super_pkg

hev_handler[5.007001]
hev_init_sv

hev_init

hev_name_set[5.009004]
hev_stashpvn[5.004000]
p
hev_stashpvs[5.009003]
p
hev_stashpv

hev_stashsv

hev_try_downgrade[5.011002]
hev_dup

hev_dup

hev_freesv

hev_stashpvn[5.004000]
p
hev_stashpvs[5.009003]
p
hev_stashpv

hev_stashsv

hev_try_downgrade[5.011002]
hev_dup

hev_dup

hev_freesv
hv_interval
hv_kill_backrefs
hv_ksplit[5.004000]
hv_magic_check
hv_magic
hv_name_set[5.009003]
hv_notallowed
hv_placeholders_get[5.009003]
hv_placeholders_p[5.009003]
hv_placeholders_set[5.009003]
hv_riter_p[5.009003]
hv_riter_set[5.009003]
hv_scalar[5.009001]
hv_store_ent[5.004000]
hv_store_flags[5.008000]
hv_stores[5.009004]
hv_store
hv.Undef
ibcmp_locale[5.004000]
ibcmp_utf8[5.007003]
ibcmp
inc_line
incpush_if_exists
incpush_use_sep
incpush
ingroup
init_argv_symbols
init_debugger
init_global_struct
init_i18n
init_i18nl10n[5.006000]
init_i18nl14n[5.006000]
init_ids
init_inter
init_main_stash
init_perlib
init_postdump_symbols
init_predump_symbols
init_stacks[5.005000]
init_tm[5.007002]
instr
intro_my
intuit_method
intuit_more
invert
io_close
isALNUMC[5.006000]
isALNUM
isALPHA
mess_alloc
mess_nocontext
mess
method_common
mfree
mg_clear
mg_copy
mg_dup
mg_find
mg_free
mg_get
mg_length
mg_localize
mg_magical
mg_set
mg_size
mini_mktime
missingterm
mode_from_discipline
modkids
mod
more_bodies
more_sv
moreswitches
mro_get_from_name
mro_get_linear_isa_dfs
mro_get_linear_isa
mro_get_private_data
mro_isa_changed_in
mro_meta_dup
mro_meta_init
mro_method_changed_in
mro_register
mro_set_mro
mro_set_private_data
mul128
mulexp10
my_atof2
my_atof
my_attrs
my_bcopy
my_betoh16
my_betoh32
my_betoh64
my_betoh
my_betohs
my_bzero
parse_dup
parse_free
path_is_absolute
peep
pending_Slabs_to_ro
perl_alloc_using
perl_alloc
perl_clone_using
perl_clone
perl_construct
perl_destruct
perl_free
perl_parse
perl_run
pidgone
pm_description
pmflag
pmop_dump
pmop_xmldump
pmruntime
pmtrans
pop_scope
pregcomp
pregexec
pregfree2
pregfree
prepend_elem
prepend_madprops
prescan_version
printf_nocontext
printbuf
printf_nocontext
process_special_blocks
ptr_table_clear
ptr_table_fetch
ptr_table_find
ptr_table_free
ptr_table_new
ptr_table_split
ptr_table_store
push_scope
put_byte
pv_display
pv_escape
pv.pretty
pv_uni_display
qerror
qsortsvu
re_compile
save_18[5.006000]
save_adelete[5.011000]
save_aelem_flags[5.011000]
save_aelem[5.004050]
save_alloc[5.006000]
save_aptr||
save_ary||
savebool[5.008001]
save_clearsv||
save_delete||
save Destructor_x[5.006000]
save Destructor[5.006000]
save_freeop||
save_freesv||
save Generic_pvref[5.006001]
save Generic_svref[5.005030]
save gp[5.004000]
save_hash||
save hdelete[5.011000]
save hek_flags||
save helem_flags[5.011000]
save helem[5.004050]
save hints||
save hptr||
save int[]
save item[]
save iv[5.005000]
save lines[]
save list[]
save long[]
save_magic[]
save mortализс svref[5.007001]
save nogv[]
save op[]
save padsv_and_mortalize[5.010001]
save pptr[]
save pushi32ptr[]
save pushptri32ptr[]
save pushptrptr[]
save pushptr[5.010001]
save re context[5.006000]
save scalar_at[]
save scalar[]
save set svflags[5.009000]
save shared_pvref[5.007003]
save sptr[]
save svref[]
sv_force_normal_flags[5.007001]
sv_force_normal[5.006000]
sv_free2[]
sv_free_arenas[]
sv_free[]
sv_gets[5.004000]
sv_grow[]
sv_incmp[]
sv_inc[]
sv_insert_flags[5.010001]
sv_insert[]
sv_isa[]
sv_isobject[]
sv_iv[5.005000]
sv_kill_backrefs[]
sv_len_utf8[5.006000]
sv_len[]
sv_magic_portable[5.011005][5.004000]
sv_magicext[5.007003]
sv_magic[]
sv_mortalcopy[]
svncmp[]
sv_newmortal[]
sv_newref[]
sv_nolocking[5.007003]
sv_nosharing[5.007003]
sv_nounlocking[]
sv_nv[5.005000]
sv_pyclerview forces[5.006000]
sv_pos_b2u_midway[]
sv_pos_b2u[5.006000]
sv_pos_u2b_cached[]
sv_pos_u2bflags[5.011005]
sv_pos_u2b_forwards[]
sv_pos_u2b_midway[]
sv_pos_u2b[5.006000]
sv_pvbyten_forces[5.006000]
sv_pvbyten[5.006000]
sv_pvbyte[5.006000]
sv_pvutf8_forces[5.007002]
sv_pvutf8n[]
sv_pvutf8n_forces[5.006000]
sv_pvutf8n[5.006000]
sv_pvutf8n[]
sv_pvutf8n[5.006000]
sv_pv[5.006000]
sv_recode_to_utf8[5.007003]
sv_utf8_encode[5.006000]
sv_utf8_upgrade_flags_grow[5.011000]
sv_utf8_upgrade_flags[5.007002]
sv_utf8_upgrade_nomg[5.007002]
sv_utf8_upgrade[5.007001]
sv_uv[5.005000]p
sv_vcatpvf_mg[5.006000][5.004000]p
sv_vcatpvfn[5.004000]
sv_vcatpvf[5.006000][5.004000]p
sv_vssetpvf_mg[5.006000][5.004000]p
sv_vssetpvfn[5.004000]
sv_vssetpvf[5.006000][5.004000]p
sv_xmlpeek[]
svtype[]
swallow_bom[]
swash_fetch[5.007002]
swash_get[]
swash_init[5.006000]
sys_init3[5.010000]n
sys_init[5.010000]n
sys_intern_clear[]
sys_intern_dup[]
sys_intern_init[]
sys_term[5.010000]n
taint_env[]
taint_proper[]
tmps_grow[5.006000]
toLOWER[]
toUPPER[]
to_byte_substr[]
to_uni_fold[5.007003]
to_uni_lower_lc[5.006000]
to_uni_lower[5.007003]
to_uni_title_lc[5.006000]
to_uni_title[5.007003]
to_uni_upper_lc[5.006000]
to_uni_upper[5.007003]
to_utf8_case[5.007003]
to_utf8_fold[5.007003]
to_utf8_lower[5.007003]
to_utf8_substr[]
to_utf8_title[5.007003]
to_utf8_upper[5.007003]
token_free[]
token_getmad[]
tokenize_use[]
tokeq[]
tokereport[]
if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
        print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "un";
    }
    exit 0;
}

# Scan for possible replacement candidates

my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);

sub find_api
{
    my $code = shift;

$function = [$1, "] if m\{^DPPP\_\(my\_(\w+)\)\};

$replace = $1 if m\{^s*srcs/s+\Replace/s+(\d+)/s+\rcce/s*\$\};
$replace{$2} = $1 if $replace and m\{^s*\#define\+(\w+)\?\&\((\^\w+)\)*\?ss+(\w+))\{/srce/s+\Replace/s+\rcce/s*\$\};
$replace{$2} = $1 if m\{^s*\#define\+(\w+)\?\&\((\^\w+)\)*\?ss+(\w+).\*srcs/s+\Replace/s+\rcce/s*\$\};
$replace{$1} = $2 if m\{^s*\rcce\+(\w+)\?\&\((\^\w+)\)*\?ss+(\w+))\{/srce/s+\rcce/s*\$\};

if (m\{^s*\rcce\+(\w+)\?\&\((\^\w+)\)*\?ss+(\w+))\{/srce/s+\rcce/s*\$\}) {
  my @deps = map \{ s/\s+//g; $_ \} split /,/, $3;
  my $d;
  for $d (map \{ s/\s+//g; $_ \} split /,/, $1) {
    push @[$depends{$d}], @deps;
  }
}

$need{$1} = 1 if m\{^#if\s+\defined\(\NEED_\+(\w+)\?\_GLOBAL)\?\};

for (values %depends) {
  my %s;
  $_ = [sort grep !$s{$_}++, @$_];
}

if (exists $opt{\'api-info\'}) {
  my $f;
  my $count = 0;
  my $match = $opt{\'api-info\'} =~ m!^/(.*)/$! ? $1 : "^Q$opt{\'api-info\'}E\$";
  for $f (sort \{ lc $a cmp lc $b \} keys %API) {
    next unless $f =~ /$match/;
    print "\n=== $f ===\n\n";
    my $info = 0;
    if ($API{$f}{base} || $API{$f}{todo}) {
      my $base = format_version($API{$f}{base} || $API{$f}{todo});
      print "Supported at least starting from perl-$base\n";
      $info++;
    }
    if ($API{$f}{provided}) {
      my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
      print "Support by $ppport provided back to perl-$todo\n";
      print "Support needs to be explicitly requested by NEED_$f\n" if exists $need{$f};
      print "Depends on: \join\(, \@[$depends{$f}]\)\n" if exists $depends{$f};
      print "\nShints{$f}\n" if exists $shints{$f};
      print "\n\nWARNING:\n\n\n\\$warnings{$f}\n" if exists $warnings{$f};
      $info++;
    }
  }
  print "No portability information available\n" unless $info;
$count++;  
}
$count or print "Found no API matching $opt{'api-info'}.";
print "\n";
exit 0;
}

if (exists $opt{'list-provided'}) {
  my $f;
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $API{$f}{provided};
    my @flags;
    push @flags, 'explicit' if exists $need{$f};
    push @flags, 'depend'  if exists $depends{$f};
    push @flags, 'hint'    if exists $hints{$f};
    push @flags, 'warning' if exists $warnings{$f};
    my $flags = @flags ? '[join(', ', @flags),']' : '';
    print "$f$flags\n";
  }
  exit 0;
}

my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;

if (@ARGV) {
  my %seen;
  for (@ARGV) {
    if (-e) {
      if (-f) {
        push @files, $_ unless $seen{$_}++;
      } else {
        warn "$_ is not a file.\n"
      }
    } else {
      my @new = grep { -f } glob $_
      or warn "$_ does not exist.\n";
      push @files, grep { !$seen{$_}++ } @new;
    }
  }
} else {
  eval {
    require File::Find;
    File::Find::find(sub {
      $File::Find::name =~ /($srcext)$i
      and push @files, $File::Find::name;
    }
  )
  }
}
die "No input files given!\n" unless @files;

my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;

for $filename (@files) {
  unless (open IN, "<$filename") {
    warn "Unable to read from $filename: $!\n";
    next;
  }
  info("Scanning $filename ...\n");

  my $c = do { local $/; <IN> };
  close IN;

  my %file = (orig => $c, changes => 0);

  # Temporarily remove C/XS comments and strings from the code
  my @ccom;
  $c =~ s{
    ( ^$HS*\#\#XS\*include\b[^
\n]*\b(?:<\Q$ppport>E\b[^
\n]* )
  | ( ^$HS*\#\#XS\*<define|elif|if(?:def)?>\b[^
\n]* )
  | ( ^$HS*\#\#XS\*<define|elif|if(?:def)?>\b[^
\n]* )
  | ( ^$HS*\#\#XS\*<define|elif|if(?:def)?>\b[^
\n]* )
  | ["\"\"]\*\{?:\{[^\"\"]\}\*\}\s*"}
my $func;

for $func (keys %API) {
    my $match = $func;
    $match .= "|$revreplace{$func}" if exists $revreplace{$func};
    if ($c =~ /(?:Perl_)?($match)/) {
        $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
        $file{uses_Perl}{$func}++ if $c =~ /Perl_$func/;
        if (exists $API{$func}{provided}) {
            $file{uses_provided}{$func}++;
        }
        if ($c =~ /$func/) {
            $file{uses_todo}{$func}++;
        }
    }
    if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{compat-version}) {
        if ($c =~ /$func/) {
            $file{uses_todo}{$func}++;
        }
    }
}

while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
    if (exists $need{$_}) {
        $file{defined $3 ? 'needed_global' : 'needed_static'}{$_}++;
    } else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
unless ($API{$func}{nothxarg}) {
my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
if ($changes) {
warning("Doesn't pass interpreter argument aTHX to Perl_$func");
$file{changes} += $changes;
}
}
}
else {

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warning("Uses Perl_$func instead of $func");
$func{changes} += ($c =~ s{\bPerl_$func\s*\(\s*aTHX_?\)\?\s*}{\$func$1\$g};
}

for $func (sort keys @{$file{uses_replace}}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s/$func/$replace{$func}/g);
}

for $func (sort keys @{$file{uses_provided}}) {
    if ($file{uses}{$func}) {
        if (exists $file{uses_deps}{$func}) {
            diag("Uses $func, which depends on ", join(", ", @{$file{uses_deps}{$func}}));
        } else {
            diag("Uses $func");
        }
    }
    $warnings += hint($func);
}

unless ($opt{quiet}) {
    for $func (sort keys @{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
            format_version($API{$func}{todo}), ", even with '$ppport\n";
        $warnings++;
    }
}

for $func (sort keys @{$file{needed_static}}) {
    my $message = "";
    if (not exists $file{uses}{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    } elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
    }
}

for $func (sort keys @{$file{needed_global}}) {
    my $message = "";
    if (not exists $global{uses}{$func}) {
$message = "No need to define NEED_${func}_GLOBAL if $func is never used";

elsif (exists $file{needs}[$func]) {
    if ($file{needs}[$func] eq 'extern') {
        $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
    } elsif ($file{needs}[$func] eq 'static') {
        $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
    }
}

if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL:b.*$LF//mg);
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = "";

    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}[$func];
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : '';
        unless (exists $file{needed_$type}[$func]) {
            if ($type eq 'global') {
                diag("Files [@{$global{needs}{$func}}] need $func, adding global request");
            } else {
                diag("File needs $func, adding static request");
            }
            $pp .= "#define NEED_$func$suffix\n";
        }
    }

    if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+.*$/\1$pp/m)) {
        $pp = "";
        $file{changes}++;
    }

    unless ($file{has_inc_ppport}) {
        diag("Needs to include '$ppport'");
        $pp .= qq(#include "$ppport\n")
    }

    if ($pp) {
        $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)/$1$pp/ms)
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my ($c =~ s/^(?=$HS*#$HS*include.*\Q$ppport+E)/$pp/m)
|| ($c =~ s/^($HS*#$HS*include.*XSUB.*\s*?)^/$1$pp/m)
|| ($c =~ s/^/$pp/);
}
}

else {
  if ($file{has_inc_ppport}) {
    diag("No need to include '$ppport'");
    $file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Q$ppport+E.*?$LF//m);
  }
  }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
  if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
    $cppc++;
    $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
  }
  else {
    $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
  }
} if ($cppc) {
  my $s = $cppc != 1 ? 's' : ';
  warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : ';
my $warn = $warnings ? " ($warnings warning$s)" : ";
info("Analysis completed$warn");

if ($file{changes}) {
  if (exists $opt{copy}) {
    my $newfile = "$filename$opt{copy}";
    warning("Uses $opt{copy} copy which is not portable");
  }
  my $s = $warnings != 1 ? 's' : ';
  $warn = $warnings ? " ($warnings warning$s)" : ";
  info("Analysis completed$warn");
  
  my $newfile = "$filename$opt{copy}";
  if (-e $newfile) {
    error("'$newfile' already exists, refusing to write copy of '$filename'");
  }
  else {
    local *F;
    if (open F,">$newfile") {
      info("Writing copy of '$filename' with changes to '$newfile'");
      print F $c;
      close F;
    }
else {
    error("Cannot open '$newfile' for writing: $!");
}
}
}
elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
        unless ($patch_opened) {
            if (open PATCH, ">$opt{patch}") {
                $patch_opened = 1;
            } else {
                error("Cannot open '$opt{patch}' for writing: $!");
                delete $opt{patch};
                $opt{changes} = 1;
                goto fallback;
            }
        }
        mydiff(*PATCH, $filename, $c);
    } else {
        fallback:
        info("Suggested changes:");
        mydiff(*STDOUT, $filename, $c);
    }
} else {  
    my $s = $file{changes} == 1 ? '' : 's';
    info("$file{changes} potentially required change$s detected");
}
else {
    info("Looks good");
}
}

close PATCH if $patch_opened;

exit 0;

sub try_use { eval "use @_.;"; return $@ eq "" }

sub mydiff
{
    local *F = shift;
    my($file, $str) = @_;
    my $diff;

if (exists $opt{diff}) {
    $diff = run_diff($opt{diff}, $file, $str);
}

if (!defined $diff and try_use('Text::Diff')) {
    $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
    $diff = <<HEADER . $diff;
--- $file
+++ $file.patched
HEADER
}

if (!defined $diff) {
    $diff = run_diff('diff -u', $file, $str);
}

if (!defined $diff) {
    $diff = run_diff('diff', $file, $str);
}

if (!defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
    return;
}

print F $diff;
}

sub run_diff {
    my($prog, $file, $str) = @_; 
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = '';
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";

    if (open F, ">$tmp") {
        print F $str;
        close F;
    }

    if (open F, "$prog $file $tmp") {
        print F $str;
        close F;

        if (open F, "$prog $file $tmp") {
            while (<F>) {
                s/%$tmp\E/$file.patched/;
                $diff .= $_;
sub rec_depend
{
    my($func, $seen) = @_; 
    return () unless exists $depends{$func};
    $seen = %{$seen||{}};
    return () if $seen->{$func}++;
    my %s;
    grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}}; @{$depends{$func}};
}

sub parse_version
{
    my $ver = shift;

    if ($ver =~ /^(\d+)\.(\d+)\.(\d+)/) {
        return ($1, $2, $3);
    }
    elsif ($ver !~ /^\d+/) {
        die "cannot parse version '$_'";
    }

    $ver =~ s/_//g;
    $ver =~ s/\d+$\d+$/000000/

    my($r,$v,$s) = $ver =~ /\d+(\d{3})(\d{3})/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "cannot parse version '$_'";
        }
    }
sub format_version
{
  my $ver = shift;

  my($r,$v,$s) = $ver =~ /\d+(.|\d{3}\d{3})/;

  $v = int $v;
  $s = int $s;

  if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
      die "invalid version '$ver'
    }
  }
  $s /= 10;

  $ver = sprintf "%d.%03d", $r, $v;
  $s > 0 and $ver .= sprintf "._%02d", $s;

  return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;
}

sub info
{
  $opt{quiet} and return;
  print @_, "\n";
}

sub diag
{
  $opt{quiet} and return;
  $opt{diag} and print @_, "\n";
}

sub warning
{
  $opt{quiet} and return;
  print "*** ", @_, "\n";
}
sub error
{
print "*** ERROR: ", @_, "\n";
}
my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE
exit 2;
}
sub strip
{
my $self = do { local(@ARGV,$/)=($0); <> };
my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;

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Sorry, but this is a stripped version of \$0.

To be able to use its original script and doc functionality, please try to regenerate this file using:

\$X \$0 --unstrip

END

my($pl, $c) = $self =~ /(.^DATA\).(\^)/ms;
$c =~ s{\(\(?[^\*]*\*+(?:[^$ccs]\[^*]*\*+)* / | /[^\w\n]\)|\("[^"\\]*(?:\\."[^"\\]*)*"|\['[^'\\]*(?:\\."[^'\\]*)*\]'|($HS+) }{ defined $2 ? ' ' : ($1 || '') }gsex;
$c =~ s!\s+!!mg;
$c =~ s!\s+!!mg;
open OUT, ">$0" or die "cannot strip $0: $!

exit 0;

__DATA__
/*

Found in path(s):
*/

* /opt/cola/permits/1185063659_1627671606.0/0/perl-Scalar-List-Utils-1.49-2.el8-1.src.rpm-cosi-expand-archive-tVVf6XBL/Scalar-List-Utils-1.49.tar.gz-cosi-expand-archive-fxHt3Ki7/Scalar-List-Utils-1.49/ppport.h

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No license file was found, but licenses were detected in source scan.

=head1 NAME

List::Util::XS - Indicate if List::Util was compiled with a C compiler

=head1 SYNOPSIS

use List::Util::XS 1.20;

=head1 DESCRIPTION

C<List::Util::XS> can be used as a dependency to ensure List::Util was installed using a C compiler and that the XS version is installed.

During installation C<$List::Util::XS::VERSION> will be set to C<undef> if the XS was not compiled.

Starting with release 1.23_03, Scalar-List-Util is B<always> using the XS implementation, but for backwards compatibility, we still ship the C<List::Util::XS> module which just loads C<List::Util>.

=head1 SEE ALSO

L<Scalar::Util>, L<List::Util>, L<List::MoreUtils>

=head1 COPYRIGHT

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 * that schema will be used to validate and the schema parameter is not necessary (if both exist, both validations will occur).
 * The validate method will return an array of validation errors. If there are no errors, then an
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To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

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20ubuntu0.18.04.5

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1.2570 destroy 1.0.4

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

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

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

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<td>2001</td>
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<td>yes</td>
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<td>PSF</td>
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abstract: 'Build and install Perl modules'

author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at &lt;module-build@perl.org&gt;.'

build_requires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49

generated_by: 'Module::Build version 0.3608'

license: gpl

meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4

name: Module-Build

resources:
MailingList: mailto:module-build@perl.org
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If you develop a new program, and you want it to be of the greatest possible use to humanity, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, 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.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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

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Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here a sample; alter the names:

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

That's all there is to it!

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Appendix: How to Apply These Terms to Your New Programs

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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
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program.

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 a sample; alter the names:

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

That's all there is to it!

#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.
Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use TestInit;
use strict;
use Config;
BEGIN { require 'test.pl' }

if ( $Config{usecrosscompile} ) { 
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ( $opt eq '--now' )
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{

    open my $readme, '<', './README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "";
    my $copyright_msg = <$readme>;


my ($year) = $copyright_msg =~ /.*\d{4,}/s
    or die "Year not found in README copyright message '$copyright_msg'';

$year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{

my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987.*\b\d{4,}/i
    or die "Copyright statement not found in perl -v output '$output'';

$year;
}

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: perl
Source: http://www.perl.com/CPAN/src/5.0/
Comment:
This package was debianized by Brendan O'Dea <bod@debian.org> on
Thu, 17 Aug 2000 16:10:54 +1000.

Upstream Authors:

  Larry Wall et. al. (see /usr/share/doc/perl/AUTHORS).

Last checked against: Perl 5.24.1

Files: *

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     version, or
  
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The first two alternative licenses, as retrieved at
Thu, 09 May 2013 00:00:38 +0300
are included at the end of this file.

Part of this file carries the following comment:
FYI: This is the "Super-Fast" algorithm mentioned by Bob Jenkins in
(http://burtleburtle.net/bob/hash/doobs.html)
It is by Paul Hsieh (c) 2004 and is analysed here
http://www.azillionmonkeys.com/qed/hash.html
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Comment:
----------------------------------------
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cpan/CPAN-Meta/lib/CPAN/Meta/History/Meta_1_2.pod
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cpan/Locale-Maketext-Simple/t/po_with_i_default/fr.po
cpan/Locale-Maketext-Simple/t/po_with_i_default/en.po
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dns.c - Recursive, Reentrant DNS Resolver.

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1.2589.1 Available under license:
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1.2590 tr46 0.0.3

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1.2591 libsgutils 1.42 2ubuntu1.18.04.2

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Douglas Gilbert
10th April 2012
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* represent devices that understand the SCSI command set.
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This program is a specialisation of the Unix "dd" command in which
either the input or the output file is a scsi generic device, raw
device, a block device or a normal file. The block size ('bs') is
assumed to be 512 if not given. This program complains if 'ibs' or
'obs' are given with a value that differs from 'bs' (or the default 512).
If 'if' is not given or 'if=-' then stdin is assumed. If 'of' is
not given or 'of=-' then stdout assumed.

A non-standard argument "bpt" (blocks per transfer) is added to control
the maximum number of blocks in each transfer. The default value is 128.
For example if "bs=512" and "bpt=32" then a maximum of 32 blocks (16 KiB
in this case) is transferred to or from the sg device in a single SCSI
command. The actual size of the SCSI READ or WRITE command block can be
selected with the "cdbsz" argument.

This version is designed for the linux kernel 2.4, 2.6 and 3 series.

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

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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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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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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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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
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1.2607 gentle-fs 2.3.1

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.2613 escape-string-regexp 1.0.5

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1.2616 structured-merge-diff 4.1.1

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1.2619 util-deprecate 1.0.2

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Argon2 reference source code package - reference C implementations

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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   This directory contains the sources of the GNU C Library.
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   The GNU C Library is the standard system C library for all GNU systems,
   and is an important part of what makes up a GNU system. It provides the
   system API for all programs written in C and C-compatible languages such
   as C++ and Objective C; the runtime facilities of other programming
   languages use the C library to access the underlying operating system.

   In GNU/Linux systems, the C library works with the Linux kernel to
   implement the operating system behavior seen by user applications.
   In GNU/Hurd systems, it works with a microkernel and Hurd servers.

   The GNU C Library implements much of the POSIX.1 functionality in the
   GNU/Hurd system, using configurations i[4567]86-*-gnu.

   When working with Linux kernels, this version of the GNU C Library
requires Linux kernel version 3.2 or later.

Also note that the shared version of the libgcc_s library must be installed for the pthread library to work correctly.

The GNU C Library supports these configurations for using Linux kernels:

- aarch64-*-linux-gnu
- alpha-*-linux-gnu
- arm-*-linux-gnueabi
- csky-*-linux-gnueabiv2
- hppa-*-linux-gnu
- i[4567]86-*-linux-gnu
- x86_64-*-linux-gnu
- ia64-*-linux-gnu
- m68k-*-linux-gnu
- microblaze-*-linux-gnu
- mips-*-linux-gnu
- mips64-*-linux-gnu
- powerpc-*-linux-gnu
- powerpc64-*-linux-gnu
- s390-*-linux-gnu
- s390x-*-linux-gnu
- riscv64-*-linux-gnu
- sh[34]-*-linux-gnu
- sparc-*-linux-gnu
- sparc64-*-linux-gnu

If you are interested in doing a port, please contact the glibc maintainers; see https://www.gnu.org/software/libc/ for more information.

See the file INSTALL to find out how to configure, build, and install the GNU C Library. You might also consider reading the WWW pages for the C library at https://www.gnu.org/software/libc/.

The GNU C Library is (almost) completely documented by the Texinfo manual found in the `manual/' subdirectory. The manual is still being updated and contains some known errors and omissions; we regret that we do not have the resources to work on the manual as much as we would like. For corrections to the manual, please file a bug in the `manual' component, following the bug-reporting instructions below. Please be sure to check the manual in the current development sources to see if your problem has already been corrected.

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<one line to give the program’s name and a brief idea of what it does.>
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The hypothetical commands `show w' and `show c' should show the
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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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The End

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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.
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A C-program for MT19937, with initialization improved 2002/1/26.  
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)  
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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with python standard

XML Remote Procedure Calls
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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, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
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1.2666 lsb-release 9.20170808ubuntu1

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1.2668 protobuf 1.26.0

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the version number 2.1.]

Preamble

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

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

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

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

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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.

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

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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.

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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The ``source code'' for a work means the preferred form of the work for making modifications to it. ``Object code'' means any non-source form
of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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DRuntime: Runtime Library for the D Programming Language
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Version 3.1, 31 March 2009

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<tr>
<td>mach_override</td>
<td>lib/interception/mach_override</td>
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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
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
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
slave/kpropd_rpc.c
slave/kproplg.c

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1.2687 github.com/container-storage-interface/spec 1.3.0

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