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Contents

1.1 mnuralp-fileutils 0.5.0
   1.1.1 Available under license
1.2 hcl 1.0.0
   1.2.1 Available under license
1.3 gnutls 3.5.3
   1.3.1 Available under license
1.4 harfbuzz 1.3.0
   1.4.1 Available under license
1.5 glibc 2.20
   1.5.1 Available under license
1.6 fluent-logger-golang 2.0
   1.6.1 Available under license
1.7 cpio 2.11
   1.7.1 Available under license
1.8 npth 1.2
   1.8.1 Available under license
1.9 coreos-semver 0.2.0
   1.9.1 Available under license
1.10 x-sync 0.0.0-20200317015054-43a5402ce75a
   1.10.1 Available under license
1.11 libcap 2.22
   1.11.1 Available under license
1.12 popt 1.16
   1.12.1 Available under license
1.13 golang-set 1.5
   1.13.1 Available under license
1.14 libtasn 4.11
  1.14.1 Available under license
1.15 go-shellwords 1.0.10
  1.15.1 Available under license
1.16 libgpg-error 1.12
  1.16.1 Available under license
1.17 protobuf 3.14.0
  1.17.1 Available under license
1.18 cffi 1.12.3
  1.18.1 Available under license
1.19 google-cloud-go 0.75.0
  1.19.1 Available under license
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  1.23.1 Available under license
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  1.24.1 Available under license
1.25 i2c-tools 3.1
  1.25.1 Available under license
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  1.26.1 Available under license
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  1.27.1 Available under license
1.28 cosmos-sdk v0.44.0
  1.28.1 Available under license
1.29 go-uber-org-multierr 1.5.0
  1.29.1 Available under license
1.30 go-redis-redis 8.11.0
  1.30.1 Available under license
1.31 gorilla 1.4.1
  1.31.1 Available under license
1.32 gawk 4.1.3
  1.32.1 Available under license
1.33 selinux 2.3
1.33.1 Available under license
1.34 urfave-cli 2.3.0
1.34.1 Available under license
1.35 e2fsprogs 1.43.5
1.35.1 Available under license
1.36 vixie-cron 1.5.1
1.36.1 Available under license
1.37 aws-sdk-go 1.25.41
1.37.1 Available under license
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1.38.1 Available under license
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1.47.1 Available under license
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   1.74.1 Available under license

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   1.114.1 Available under license
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   1.115.1 Available under license
1.116 zlib 1.2.11 r3
   1.116.1 Available under license
1.117 urfave-cli 1.22.1
   1.117.1 Available under license
1.118 mongo-go-driver 1.4.6
   1.118.1 Available under license
1.119 pyasn1 0.4.8
   1.119.1 Available under license
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   1.120.1 Available under license
1.121 yamux 0.0.0-20181012175058-2f1d1f20f75d
   1.121.1 Available under license
1.122 log-rotate 3.12.3
   1.122.1 Available under license
1.123 aliyun-aliyun-oss-go-sdk 0.0.0-20190307165228-86c17b95fcd5
   1.123.1 Available under license
1.124 i2c-tools 3.1.1
   1.124.1 Available under license
1.125 mitchellh-cli 1.1.1
   1.125.1 Available under license
1.126 file 5.31
   1.126.1 Available under license
1.127 kubernetes-api 0.18.2
   1.127.1 Available under license
1.128 cryptsetup 1.6.6
   1.128.1 Available under license
1.129 godbus 5.0.3
   1.129.1 Available under license
1.130 at 3.1.15
   1.130.1 Available under license
1.131 cronie 1.4.11
   1.131.1 Available under license
1.132 rng-tools 5
1.132.1 Available under license
1.133 gogoprotobuf 1.3.1
    1.133.1 Available under license
1.134 libevdev 1.2.2
    1.134.1 Available under license
1.135 logrus 1.4.2
    1.135.1 Available under license
1.136 tcpdump 4.9.0
    1.136.1 Available under license
1.137 gogoprotobuf 1.3.5
    1.137.1 Available under license
1.138 sysstat 11.4.0
    1.138.1 Available under license
1.139 openssl 1.0.2n
    1.139.1 Available under license
1.140 xz 5.2.3
    1.140.1 Available under license
1.141 cyphar/filepath-securejoin 0.2.2
    1.141.1 Available under license
1.142 miekg-dns v1.1.40
    1.142.1 Available under license
1.143 perl 5.22.1
    1.143.1 Available under license
1.144 go-tfe 0.12.0
    1.144.1 Available under license
1.145 python-setuptools 20.10.1
    1.145.1 Available under license
1.146 wget 1.15
    1.146.1 Available under license
1.147 libtool 6.0
    1.147.1 Available under license
1.148 utils 0.0.0-20190801114015-581e00157fb1
    1.148.1 Available under license
1.149 cncf-udpa-go 0.0.0-20200313221541-5f7e5dd04533
    1.149.1 Available under license
1.150 go-units 0.4.0
    1.150.1 Available under license
1.151 python-setuptools 28.8.0
    1.151.1 Available under license
1.152 pep517 0.5.0
   1.152.1 Available under license
1.153 jcmtturner-dnsutils 1.0.1
   1.153.1 Available under license
1.154 go-colorable 0.1.6
   1.154.1 Available under license
1.155 zlib 1.2.11
   1.155.1 Available under license
1.156 grpc 1.14.1
   1.156.1 Available under license
1.157 bind 9.11.6
   1.157.1 Available under license
1.158 gogoproto buf 1.2.2-0.20190723190241-65acae22fc9d
   1.158.1 Available under license
1.159 go-immutable-radix 1.0.0
   1.159.1 Available under license
1.160 librabbitmq 0.9.0
   1.160.1 Available under license
1.161 spew 1.1.1
   1.161.1 Available under license
1.162 libsepol 2.6
   1.162.1 Available under license
1.163 go-mssql db 0.0.0-20200428022330-06a60b6afbbc
   1.163.1 Available under license
1.164 rpcbind 0.2.3
   1.164.1 Available under license
1.165 x-net 0.0.0-20201031054903-ff519b6c9102
   1.165.1 Available under license
1.166 acpid 2.0.22
   1.166.1 Available under license
1.167 curl 7.50.1
   1.167.1 Available under license
1.168 ncclient 0.6.3
   1.168.1 Available under license
1.169 libpcap 1.6.1
   1.169.1 Available under license
1.170 urllib3 1.23
   1.170.1 Available under license
1.171 tftp-hpa 5.2
1.171.1 Available under license
1.172 go-units 0.4.0
  1.172.1 Available under license
1.173 safeio 0.2.1
  1.173.1 Available under license
1.174 gdbm 1.11
  1.174.1 Available under license
1.175 flatbuffers 1.11.0
  1.175.1 Available under license
1.176 ncurses 6.0
  1.176.1 Available under license
1.177 erlang-otp 5.10
  1.177.1 Available under license
1.178 linux-kernel 4.8.28
  1.178.1 Available under license
1.179 go-autorest-adal 0.9.11
  1.179.1 Available under license
1.180 bridgeutils 1.5
  1.180.1 Available under license
1.181 go-criu 4.1.0
  1.181.1 Available under license
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  1.182.1 Available under license
1.183 libdevmapper 2.03.06
  1.183.1 Available under license
1.184 python-requests 2.7.0
  1.184.1 Available under license
1.185 c-ares 1.14.0
  1.185.1 Available under license
1.186 nytimes-gziphandler 1.1.1
  1.186.1 Available under license
1.187 kubernetes-api 0.16.9
  1.187.1 Available under license
1.188 gmp 6.1.1
  1.188.1 Available under license
1.189 minicom 2.7
  1.189.1 Available under license
1.190 busybox 1.23.1
  1.190.1 Available under license
1.191 libtasn 4.9
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   1.193.1 Available under license
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1.195 go-radix 0.0.0-20180808171621-7fddfc383310
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   1.196.1 Available under license
1.197 kubernetes-apimachinery 0.18.2
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   1.199.1 Available under license
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   1.200.1 Available under license
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1.17 protobuf 3.14.0
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support library is itself covered by the above license. 
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  Oleg Smolksy <oleg.smolsky@gmail.com>
  * MS Visual Studio error format option.
  * Detect unordered_map in stl_hash.m4.
  Brian Olson <brianolson@google.com>
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  all fields (only present with certain compiler settings).
  * Added generation of field number constants.
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  * Fixed initialization ordering problem in logging code.
  Will Pierce <willp@nuclei.com>
  * Small patch improving performance of in Python serialization.
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  * 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>
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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
Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xLC compiler build issues
* Added atomicops for AIX (POWER)

1.18 cffi 1.12.3
1.18.1 Available under license:

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1.19 google-cloud-go 0.75.0
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testing
package cloud

import (  
  "bytes"  
  "io/ioutil"  
  "os"  
  "path/filepath"  
  "strings"  
  "testing"  
)

var sentinels = []string{  
  "Copyright",  
}
func TestLicense(t *testing.T) {
    t.Parallel()
    skip := map[string]bool{
        // Automatically generated.
        "bigtable/cmd/cbt/cbt/doc.go": true,
        // BSD license, which is compatible, is embedded in the file.
        "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go": true,
        "third_party/pkgsite/print_type.go": true,
        "third_party/pkgsite/synopsis.go": true,
    }
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".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 skip[path] {
            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
            }
        }
        return nil
    })
}
if err != nil {
    t.Fatal(err)
}

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To apply the Apache License to your work, attach the following
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1.27 vim 7.4.481
1.27.1 Available under license :
   *uganda.txt* For Vim version 8.2. Last change: 2019 Dec 07

   VIM REFERENCE MANUAL by Bram Moolenaar

   *uganda* *Uganda* *copying* *copyright* *license*
   SUMMARY
   *iccf* *ICCF*
   Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see [kcc] below or visit the ICCF web site, available at these URLs:

   http://iccf-holland.org/
   http://www.vim.org/iccf/
   http://www.iccf.nl/

   You can also sponsor the development of Vim. Vim sponsors can vote for features. See [sponsor]. The money goes to Uganda anyway.

   The Open Publication License applies to the Vim documentation, see [manual-copyright].

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Open Source Used In IOS XR Software 7.5.2 348
=== begin of license ===

VIM LICENSE

I) There are no restrictions on distributing unmodified copies of Vim except that they must include this license text. You can also distribute unmodified parts of Vim, likewise unrestricted except that they must include this license text. You are also allowed to include executables that you made from the unmodified Vim sources, plus your own usage examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:
   1) This license text must be included unmodified.
   2) The modified Vim must be distributed in one of the following five ways:
      a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes. The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.
      b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.
      c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.
      d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:
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- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.
  e) When the GNU General Public License (GPL) applies to the changes, you can distribute the modified Vim under the GNU GPL version 2 or any later version.
3) A message must be added, at least in the output of the ":version" command and in the intro screen, such that the user of the modified Vim is able to see that it was modified. When distributing as mentioned under 2)e) adding the message is only required for as far as this does not conflict with the license used for the changes.
4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.

III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading the files to a server and e-mailing the URL. If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is <maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.

=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.
- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

Kibaale Children's Centre

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given.
Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.
USA: The methods mentioned below can be used. Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt. For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children’s Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar”. Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number. Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

- Postbank, account 4548774
  - Swift code: INGB NL 2A
  - IBAN: NL95 INGB 0004 5487 74
  - under the name "stichting ICCF Holland", Lisse

- Rabobank Lisse, account 3765.05.117
  - Swift code: RABO NL 2U
  - under the name "Bram Moolenaar", Lisse

Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

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Version 2.1, February 1999

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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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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.

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ordinary GNU General Public License has appeared, then you can specify 
that version instead if you wish.) Do not make any other change in 
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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.

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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1.29 go-uber-org-multierr 1.5.0

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1.30 go-redis-redis 8.11.0
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1.31 gorilla 1.4.1

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1.32 gawk 4.1.3

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1.35 e2fsprogs 1.43.5

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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 @@ 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:

http://sourceforge.net/projects/e2fsprogs

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

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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
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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1.36 vixie-cron 1.5.1

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Protocol Buffers for Go with Gadgets

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

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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
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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
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releases have also been GPL-compatible; the table below summarizes
the various releases.

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<th>Year</th>
<th>Owner</th>
<th>GPL-compatible? (1)</th>
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      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
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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
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For an executable, the required form of the "work that uses the
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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.

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1.66 inetutils 1.9.4

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1.69 u-boot 1.74

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##
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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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localtime.go, localtime_test.go:

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https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go
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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.

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---

runc

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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
    }

    if ext := filepath.Ext(path); ext != ".go" && ext != ".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
        }
    }

    return nil

})
if err != nil {
    t.Fatal(err)
}
}

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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.

   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
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modification of the work for the customer’s own use and reverse
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directing the user to the copy of this License. Also, you must do one
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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
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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
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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.

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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The test programs in this directory tree are for demonstrating and testing the functionality of the SDL library, and are placed in the public domain.

October 28, 1997
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Sam Lantinga (slouken@libSDL.org)

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Version 2.1, February 1999

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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.

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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.

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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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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.

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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.

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1.97 xz 5.1.3

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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
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Bowes, Keith
Boyce, Keith Garry
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Hayman, Randy M.
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Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
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Todd, Giles
The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blttermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
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Hamming, Peter
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Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
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The following people designed the artwork used on the sudo website:

- Shield logo: Badger, Trent
- Sandwich logo: Stillman, Mark

1.100 flex 2.6.0

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* /opt/cola/permits/1257814624_1643018162.09/0/libtensorflow-1-15-0-sources-jar/org/tensorflow/op/core/ExperimentalDatasetCardinality.java

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1.104 gdb 7.9.1
1.104.1 Available under license:

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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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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:

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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END OF TERMS AND CONDITIONS

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.

<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.

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
Ty Coon, President of Vice

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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.

This license, the Lesser General Public License, applies to some specially designated software---typically libraries---of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

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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.

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 \textit{Lesser} General Public License because it does \textit{less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers \textit{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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This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called ``this License''). Each licensee is addressed as ``you''.

A ``library'' means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

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

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.

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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The modified work must itself be a software library.

@item
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stating that you changed the files and the date of any change.

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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
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be optional: if the application does not supply it, the square
root function must still compute square roots.)
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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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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.

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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.)

@item
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.

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Sections above.

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Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
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1.107 jcmtturner-aescts 1.0.1

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If you've contributed to gas and your name isn't listed here, it is
not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

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

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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1.109 go-errors-errors 1.0.1

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1.110 libxt 1.1.4

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1.112 hashicorp-go-version 1.2.1
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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.
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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.

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   its purpose remains meaningful.

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1.117 urfave-cli 1.22.1

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1.118 mongo-go-driver 1.4.6

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1.119 pyasn1 0.4.8
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Metadata-Version: 1.2
Name: pyasn1
Version: 0.4.8
Summary: ASN.1 types and codecs
Home-page: https://github.com/etingof/pyasn1
Author: Ilya Etingof
Author-email: etingof@gmail.com
Maintainer: Ilya Etingof <etingof@gmail.com>
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Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
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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`):

```
>>> 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.

```
>>> 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.

```
>>> 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
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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8.tar-gz/pyasn1-0.4.8/tests/test_debug.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8.tar-gz/pyasn1-0.4.8/pyasn1/compat/dateandtime.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8.tar-gz/pyasn1-0.4.8/tests/codec/ber/test_encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8.tar-gz/pyasn1-0.4.8/pyasn1/codec/native/encoder.py
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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 <https://pypi.org/project/pyasn1/>`_ library 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 <https://news.ycombinator.com/item?id=8871453>`_ 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 <https://developers.google.com/protobuf/>`_ or `FlatBuffers <https://google.github.io/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::
   :maxdepth: 2

/example-use-case

Download & Install
------------------

.. toctree::
   :maxdepth: 2

/download
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.

.. toctree::
   :maxdepth: 1

/changelog

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-------

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.. toctree::
   :maxdepth: 2

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Getting help
------------


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:

*A Layman’s Guide to a Subset of ASN.1, BER, and DER <ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>*

by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

Found in path(s):

* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/docs/source/contents.rst

1.120 linux-kernel 3.8.11

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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.

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* 10/1/97 - commented out CFG PHYIE bit - we don't care when the PHY
  *interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
  *and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
  *loss of link, and correctly re-enable PHY when link is
  *re-established. (put back CFG_PHYIE)
*
* 10/18/97 - commented out CFG_PHYIE bit - we don't care when the PHY
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* 10/29/97 - added code to handle PHY interrupts, disable PHY on
  *loss of link, and correctly re-enable PHY when link is
  *re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
  * see init_nicstar() for PHY initialization to change this. This driver
  * expects the Linux ATM stack to support scatter-gather lists
  * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
  * as needed. This means that data must always be copied to create
  * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*  Fix is simple: make large buffers large enough to hold entire
  * SDU, and leave <small_buffer_data> bytes empty at the start. Then
  * copy small buffer contents to head of large buffer.
*  Trick is to avoid fragmenting Linux, due to need for a lot of large
  * buffers. This is done by 2 things:
  *  1) skb->destructor / skb->atm.recycle_buffer
  *       combined, allow nicstar_free_rx_skb to be called to
  *       recycle large data buffers
  *  2) skb_clone of received buffers
  * See nicstar_free_rx_skb and linearize_buffer for implementation
  * details.
* *
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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
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single nxt200x frontend driver.

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*@(#)bitstring.h	8.1 (Berkeley) 7/19/93
*/

1.132 rng-tools 5

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1.138 sysstat 11.4.0

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The End

1.140 xz 5.2.3
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bzip2/libbzip2 version 1.0.6 of 6 September 2010

abstract: 'Build and install Perl modules'
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The End

#!perl

=head1 NAME

copyright.t
Tests that the latest copyright years in the top-level README file and the `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 `-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.

```perl
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) = $copyright_msg =~ /.*\b(\d{4,})\b/s
   or die "Year not found in README copyright message '$copyright_msg'";

$year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b(\d{4,})\b/i
       or die "Copyright statement not found in perl -v output '$output'";

    $year;
}

1.144 go-tfe 0.12.0
1.144.1 Available under license:
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* /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/pkg_resources/_vendor/packaging/_structures.py
* /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/pkg_resources/_vendor/packaging/version.py
* /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/pkg_resources/_vendor/packaging/__init__.py

No license file was found, but licenses were detected in source scan.

License: UNKNOWN

Classifier: License :: OSI Approved :: MIT License

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/setup.py

No license file was found, but licenses were detected in source scan.

License :: OSI Approved :: MIT License

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setup.py

No license file was found, but licenses were detected in source scan.

====================================
Building and Distributing Packages with Setuptools
==================================================================

``Setuptools`` is a collection of enhancements to the Python ``distutils``
(for Python 2.6 and up) that allow developers to more easily build and
distribute Python packages, especially ones that have dependencies on other
packages.

Packages built and distributed using ``setuptools`` look to the user like
ordinary Python packages based on the ``distutils``. Your users don't need to
install or even know about setuptools in order to use them, and you don't
have to include the entire setuptools package in your distributions. By
including just a single `bootstrap module` (a 12K .py file), your package will
automatically download and install `setuptools` if the user is building your
package from source and doesn't have a suitable version already installed.

.. _bootstrap module: https://bootstrap.pypa.io/ez_setup.py

Feature Highlights:

* Automatically find/download/install/upgrade dependencies at build time using
  the `EasyInstall tool <easy_install.html>`_,
  which supports downloading via HTTP, FTP, Subversion, and SourceForge, and
  automatically scans web pages linked from PyPI to find download links. (It's
  the closest thing to CPAN currently available for Python.)

* Create `Python Eggs` - a single-file importable distribution format

* Enhanced support for accessing data files hosted in zipped packages.

* Automatically include all packages in your source tree, without listing them
  individually in setup.py

* Automatically include all relevant files in your source distributions,
  without needing to create a `MANIFEST.in` file, and without having to force
  regeneration of the `MANIFEST` file when your source tree changes.

* Automatically generate wrapper scripts or Windows (console and GUI) .exe
  files for any number of "main" functions in your project. (Note: this is not
  a py2exe replacement; the .exe files rely on the local Python installation.)

* Transparent Pyrex support, so that your setup.py can list `.pyx` files and
  still work even when the end-user doesn't have Pyrex installed (as long as
  you include the Pyrex-generated C in your source distribution)

* Command aliases - create project-specific, per-user, or site-wide shortcut
  names for commonly used commands and options
* PyPI upload support - upload your source distributions and eggs to PyPI

* Deploy your project in "development mode", such that it's available on `sys.path`, yet can still be edited directly from its source checkout.

* Easily extend the distutils with new commands or `setup()` arguments, and distribute/reuse your extensions for multiple projects, without copying code.

* Create extensible applications and frameworks that automatically discover extensions, using simple "entry points" declared in a project's setup script.

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

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

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

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

.. _ez_setup.py: `bootstrap module`

-----------------
Developer's Guide
-----------------

Installing `setuptools`

Please follow the `EasyInstall Installation Instructions` to install the current stable version of setuptools. In particular, be sure to read the section on `Custom Installation Locations` if you are installing anywhere other than Python's `site-packages` directory.

.. _EasyInstall Installation Instructions: easy_install.html#installation-instructions

.. _Custom Installation Locations: easy_install.html#custom-installation-locations

If you want the current in-development version of setuptools, you should first install a stable version, and then run:

```
   ez_setup.py setuptools==dev
```

This will download and install the latest development (i.e. unstable) version
of setuptools from the Python Subversion sandbox.

Basic Use
==========

For basic use of setuptools, just import things from setuptools instead of the distutils. Here's a minimal setup script using setuptools::

```python
from setuptools import setup, find_packages
setup(
    name = "HelloWorld",
    version = "0.1",
    packages = find_packages(),
)
```

As you can see, it doesn't take much to use setuptools in a project. Run that script in your project folder, alongside the Python packages you have developed.

Invoke that script to produce eggs, upload to PyPI, and automatically include all packages in the directory where the setup.py lives. See the 'Command Reference' section below to see what commands you can give to this setup script. For example, to produce a source distribution, simply invoke::

```bash
python setup.py sdist
```

Of course, before you release your project to PyPI, you'll want to add a bit more information to your setup script to help people find or learn about your project. And maybe your project will have grown by then to include a few dependencies, and perhaps some data files and scripts::

```python
from setuptools import setup, find_packages
setup(
    name = "HelloWorld",
    version = "0.1",
    packages = find_packages(),
    scripts = ['say_hello.py'],
    # Project uses reStructuredText, so ensure that the docutils get
    # installed or upgraded on the target machine
    install_requires = ['docutils>=0.3'],
    package_data = {
        # If any package contains *.txt or *.rst files, include them:
        '*': ['*.txt', '*.rst'],
        # And include any *.msg files found in the 'hello' package, too:
    }
```

---

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Specifying Your Project's Version

Setuptools can work well with most versioning schemes; there are, however, a few special things to watch out for, in order to ensure that setuptools and EasyInstall can always tell what version of your package is newer than another version. Knowing these things will also help you correctly specify what versions of other projects your project depends on.

A version consists of an alternating series of release numbers and pre-release or post-release tags. A release number is a series of digits punctuated by dots, such as ``2.4`` or ``0.5``. Each series of digits is treated numerically, so releases ``2.1`` and ``2.1.0`` are different ways to spell the same release number, denoting the first subrelease of release 2. But ``2.10`` is the *tenth* subrelease of release 2, and so is a different and newer release from ``2.1`` or ``2.1.0``. Leading zeros within a series of digits are also ignored, so ``2.01`` is the same as ``2.1``, and different from ``2.0.1``.

Following a release number, you can have either a pre-release or post-release tag. Pre-release tags make a version be considered *older* than the version they are appended to. So, revision ``2.4`` is *newer* than revision ``2.4c1``, which in turn is newer than ``2.4b1`` or ``2.4a1``. Postrelease tags make a version be considered *newer* than the version they are appended to. So, revisions like ``2.4-1`` and ``2.4pl3`` are newer than ``2.4``, but are *older* than ``2.4.1`` (which has a higher release number).

A pre-release tag is a series of letters that are alphabetically before "final". Some examples of prerelease tags would include ``alpha``, ``beta``, ``a``, ``c``, ``dev``, and so on. You do not have to place a dot or dash
before the prerelease tag if it's immediately after a number, but it's okay to
do so if you prefer. Thus, ``2.4c1`` and ``2.4c1'' and ``2.4-c1`` all
represent release candidate 1 of version ``2.4'', and are treated as identical
by setuptools.

In addition, there are three special prerelease tags that are treated as if
they were the letter ``c``: ``pre``, ``preview``, and ``rc``. So, version
``2.4rc1'', ``2.4pre1'' and ``2.4preview1'' are all the exact same version as
``2.4c1'', and are treated as identical by setuptools.

A post-release tag is either a series of letters that are alphabetically
greater than or equal to "final", or a dash (``-``). Post-release tags are
generally used to separate patch numbers, port numbers, build numbers, revision
numbers, or date stamps from the release number. For example, the version
``2.4-r1263`` might denote Subversion revision 1263 of a post-release patch of
version ``2.4''. Or you might use ``2.4-20051127`` to denote a date-stamped
post-release.

Notice that after each pre or post-release tag, you are free to place another
release number, followed again by more pre- or post-release tags. For example,
``0.6a9.dev-r41475`` could denote Subversion revision 41475 of the in-
development version of the ninth alpha of release 0.6. Notice that ``dev`` is
a pre-release tag, so this version is a *lower* version number than ``0.6a9'',
which would be the actual ninth alpha of release 0.6. But the ``-r41475`` is
a post-release tag, so this version is *newer* than ``0.6a9.dev``.

For the most part, setuptools' interpretation of version numbers is intuitive,
but here are a few tips that will keep you out of trouble in the corner cases:

* Don't stick adjoining pre-release tags together without a dot or number
  between them. Version ``1.9adev`` is the ``adev`` prerelease of ``1.9'',
  *not* a development pre-release of ``1.9a``. Use ``.dev`` instead, as in
  ``1.9a.dev'', separate the prerelease tags with a number, as in
  ``1.9a0dev'', ``1.9a.dev'', ``1.9a0dev'', and even ``1.9.a.dev'' are
  identical versions from setuptools' point of view, so you can use whatever
  scheme you prefer.

* If you want to be certain that your chosen numbering scheme works the way
  you think it will, you can use the ``pkg_resources.parse_version()`` function
to compare different version numbers::

```python
>>> from pkg_resources import parse_version
>>> parse_version('1.9.a.dev') == parse_version('1.9a0dev')
True
>>> parse_version('2.1-rc2') < parse_version('2.1')
True
>>> parse_version('0.6a9dev-r41475') < parse_version('0.6a9')
True
```
Once you've decided on a version numbering scheme for your project, you can have setuptools automatically tag your in-development releases with various pre- or post-release tags. See the following sections for more details:

* `Tagging and "Daily Build" or "Snapshot" Releases`
* `Managing "Continuous Releases" Using Subversion`
* The `egg_info` command

New and Changed ``setup()`` Keywords
====================================

The following keyword arguments to ``setup()`` are added or changed by setuptools. All of them are optional; you do not have to supply them unless you need the associated setuptools feature.

``include_package_data``
If set to ``True``, this tells setuptools to automatically include any data files it finds inside your package directories that are specified by your `MANIFEST.in` file. For more information, see the section below on `Including Data Files`.

``exclude_package_data``
A dictionary mapping package names to lists of glob patterns that should be excluded from your package directories. You can use this to trim back any excess files included by `include_package_data`. For a complete description and examples, see the section below on `Including Data Files`.

``package_data``
A dictionary mapping package names to lists of glob patterns. For a complete description and examples, see the section below on `Including Data Files`. You do not need to use this option if you are using `include_package_data`, unless you need to add e.g. files that are generated by your setup script and build process. (And are therefore not in source control or are files that you don't want to include in your source distribution.)

``zip_safe``
A boolean (True or False) flag specifying whether the project can be safely installed and run from a zip file. If this argument is not supplied, the `bdist_egg` command will have to analyze all of your project's contents for possible problems each time it builds an egg.

``install_requires``
A string or list of strings specifying what other distributions need to be installed when this one is. See the section below on `Declaring Dependencies` for details and examples of the format of this argument.

``entry_points``
A dictionary mapping entry point group names to strings or lists of strings defining the entry points. Entry points are used to support dynamic discovery of services or plugins provided by a project. See `Dynamic Discovery of Services and Plugins`_ for details and examples of the format of this argument. In addition, this keyword is used to support `Automatic Script Creation`_.

``extras_require``
A dictionary mapping names of "extras" (optional features of your project) to strings or lists of strings specifying what other distributions must be installed to support those features. See the section below on `Declaring Dependencies`_ for details and examples of the format of this argument.

``setup_requires``
A string or list of strings specifying what other distributions need to be present in order for the *setup script* to run. ``setuptools`` will attempt to obtain these (even going so far as to download them using EasyInstall) before processing the rest of the setup script or commands. This argument is needed if you are using distutils extensions as part of your build process; for example, extensions that process setup() arguments and turn them into EGG-INFO metadata files.

(Note: projects listed in ``setup_requires`` will NOT be automatically installed on the system where the setup script is being run. They are simply downloaded to the .eggs directory if they're not locally available already. If you want them to be installed, as well as being available when the setup script is run, you should add them to ``install_requires`` **and** ``setup_requires``.)

``dependency_links``
A list of strings naming URLs to be searched when satisfying dependencies. These links will be used if needed to install packages specified by ``setup_requires`` or ``tests_require``. They will also be written into the egg's metadata for use by tools like EasyInstall to use when installing an `.egg` file.

``namespace_packages``
A list of strings naming the project's "namespace packages". A namespace package is a package that may be split across multiple project distributions. For example, Zope 3's "zope" package is a namespace package, because subpackages like "zope.interface" and "zope.publisher" may be distributed separately. The egg runtime system can automatically merge such subpackages into a single parent package at runtime, as long as you declare them in each project that contains any subpackages of the namespace package, and as long as the namespace package's `__init__.py` does not contain any code other than a namespace declaration. See the
section below on `Namespace Packages`_ for more information.

``test_suite``

A string naming a `unittest.TestCase` subclass (or a package or module containing one or more of them, or a method of such a subclass), or naming a function that can be called with no arguments and returns a `unittest.TestSuite`. If the named suite is a module, and the module has an `additional_tests()` function, it is called and the results are added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite.

Specifying this argument enables use of the `test`_ command to run the specified test suite, e.g. via `setup.py test`. See the section on the `test`_ command below for more details.

``tests_require``

If your project's tests need one or more additional packages besides those needed to install it, you can use this option to specify them. It should be a string or list of strings specifying what other distributions need to be present for the package's tests to run. When you run the `test` command, `setuptools` will attempt to obtain these (even going so far as to download them using `EasyInstall`). Note that these required projects will *not* be installed on the system where the tests are run, but only downloaded to the project's setup directory if they're not already installed locally.

``_test_loader``

If you would like to use a different way of finding tests to run than what setuptools normally uses, you can specify a module name and class name in this argument. The named class must be instantiable with no arguments, and its instances must support the `loadTestsFromNames()` method as defined in the Python `unittest` module's `TestLoader` class. Setuptools will pass only one test "name" in the `names` argument: the value supplied for the `test_suite` argument. The loader you specify may interpret this string in any way it likes, as there are no restrictions on what may be contained in a `test_suite` string.

The module and class name must be separated by a `:`. The default value of this argument is `"setuptools.command.test:ScanningLoader"`. If you want to use the default `unittest` behavior, you can specify `"unittest:TestLoader"` as your `test_loader` argument instead. This will prevent automatic scanning of submodules and subpackages.

The module and class you specify here may be contained in another package, as long as you use the `tests_require` option to ensure that the package containing the loader class is available when the `test` command is run.
``eager_resources``
A list of strings naming resources that should be extracted together, if any of them is needed, or if any C extensions included in the project are imported. This argument is only useful if the project will be installed as a zipfile, and there is a need to have all of the listed resources be extracted to the filesystem as a unit. Resources listed here should be '/'-separated paths, relative to the source root, so to list a resource `"foo.png"` in package `"bar.baz"`, you would include the string `"bar/baz/foo.png"` in this argument.

If you only need to obtain resources one at a time, or you don't have any C extensions that access other files in the project (such as data files or shared libraries), you probably do NOT need this argument and shouldn't mess with it. For more details on how this argument works, see the section below on `Automatic Resource Extraction`.

``use_2to3``
Convert the source code from Python 2 to Python 3 with 2to3 during the build process. See :doc:`python3` for more details.

``convert_2to3_doctests``
List of doctest source files that need to be converted with 2to3.
See :doc:`python3` for more details.

``use_2to3_fixers``
A list of modules to search for additional fixers to be used during the 2to3 conversion. See :doc:`python3` for more details.

Using ``find_packages()``

``find_packages()`` takes a source directory and two lists of package name patterns to exclude and include. If omitted, the source directory defaults to the same directory as the setup script. Some projects use a `"src"` or `"lib"` directory as the root of their source tree, and those projects would of course use `"src"` or `"lib"` as the first argument to `"find_packages()"`. (And such projects also need something like `"package_dir = {"src"}` in their `"setup()"` arguments, but that's just a normal distutils thing.)

Anyway, `"find_packages()"` walks the target directory, filtering by inclusion
patterns, and finds Python packages (any directory). On Python 3.2 and
earlier, packages are only recognized if they include an ``__init__.py`` file.
Finally, exclusion patterns are applied to remove matching packages.

Inclusion and exclusion patterns are package names, optionally including
wildcards. For example, ``find_packages(exclude=['*.tests'])`` will exclude all packages whose
last name part is ``tests``. Or, ``find_packages(exclude=['*tests','
'*tests.*'])`` will also exclude any subpackages of packages named ``tests``,
but it still won't exclude a top-level ``tests`` package or the children
terof. In fact, if you really want no ``tests`` packages at all, you'll need
something like this:

```python
find_packages(exclude=['*.tests', '*.tests.*', 'tests.*', 'tests'])
```

in order to cover all the bases. Really, the exclusion patterns are intended
to cover simpler use cases than this, like excluding a single, specified
package and its subpackages.

Regardless of the parameters, the ``find_packages()``
function returns a list of package names suitable for use as the ``packages``
argument to ``setup()`` and so is usually the easiest way to set that
argument in your setup script. Especially since it frees you from having to
remember to modify your setup script whenever your project grows additional
top-level packages or subpackages.

Automatic Script Creation
========================

Packaging and installing scripts can be a bit awkward with the distutils. For
one thing, there's no easy way to have a script's filename match local
conventions on both Windows and POSIX platforms. For another, you often have
to create a separate file just for the "main" script, when your actual "main"
is a function in a module somewhere. And even in Python 2.4, using the "-m"
option only works for actual "-py" files that aren't installed in a package.

``setuptools`` fixes all of these problems by automatically generating scripts
for you with the correct extension, and on Windows it will even create an
``.exe`` file so that users don't have to change their "PATHEXT" settings.
The way to use this feature is to define "entry points" in your setup script
that indicate what function the generated script should import and run. For
example, to create two console scripts called ``foo`` and ``bar``, and a GUI
script called ``baz``, you might do something like this:

```python
setup(
    # other arguments here...
    entry_points={
```
When this project is installed on non-Windows platforms (using "setup.py install", "setup.py develop", or by using EasyInstall), a set of \`foo\`, \`bar\`, and \`baz\` scripts will be installed that import \`main_func\` and \`some_func\` from the specified modules. The functions you specify are called with no arguments, and their return value is passed to \`sys.exit\`), so you can return an errorlevel or message to print to stderr.

On Windows, a set of \`foo.exe\`, \`bar.exe\`, and \`baz.exe\` launchers are created, alongside a set of \`foo.py\`, \`bar.py\`, and \`baz.pyw\` files. The \`exe\` wrappers find and execute the right version of Python to run the \`py\` or \`pyw\` file.

You may define as many "console script" and "gui script" entry points as you like, and each one can optionally specify "extras" that it depends on, that will be added to \`sys.path\` when the script is run. For more information on "extras", see the section below on `Declaring Extras`_. For more information on "entry points" in general, see the section below on `Dynamic Discovery of Services and Plugins`_.

"Eggsecutable" Scripts
------------------------

Occasionally, there are situations where it’s desirable to make an \`.egg\` file directly executable. You can do this by including an entry point such as the following::

```python
setup(
    # other arguments here...
    entry_points = {
        'setuptools.installation': [
            'eggsecutable = my_package.some_module:main_func',
        ]
    }
)
```

Any eggs built from the above setup script will include a short executable prelude that imports and calls \`main_func\`) from \`my_package.some_module\`.\`
The prelude can be run on Unix-like platforms (including Mac and Linux) by invoking the egg with `"/bin/sh"`, or by enabling execute permissions on the `.egg` file. For the executable prelude to run, the appropriate version of Python must be available via the `"PATH"` environment variable, under its "long" name. That is, if the egg is built for Python 2.3, there must be a `"python2.3"` executable present in a directory on `"PATH"`.

This feature is primarily intended to support ez_setup the installation of setuptools itself on non-Windows platforms, but may also be useful for other projects as well.

IMPORTANT NOTE: Eggs with an "eggexecutable" header cannot be renamed, or invoked via symlinks. They *must* be invoked using their original filename, in order to ensure that, once running, ``pkg_resources`` will know what project and version is in use. The header script will check this and exit with an error if the `.egg` file has been renamed or is invoked via a symlink that changes its base name.

Declaring Dependencies

``setuptools`` supports automatically installing dependencies when a package is installed, and including information about dependencies in Python Eggs (so that package management tools like EasyInstall can use the information).

``setuptools`` and ```pkg_resources`` use a common syntax for specifying a project's required dependencies. This syntax consists of a project's PyPI name, optionally followed by a comma-separated list of "extras" in square brackets, optionally followed by a comma-separated list of version specifiers. A version specifier is one of the operators `"<"`, `">"`, `"<="`, `">="`, `"=="` or `"!="`, followed by a version identifier. Tokens may be separated by whitespace, but any whitespace or nonstandard characters within a project name or version identifier must be replaced with `"-"`.

Version specifiers for a given project are internally sorted into ascending version order, and used to establish what ranges of versions are acceptable. Adjacent redundant conditions are also consolidated (e.g. `">1, >2"` becomes `">1"`, and `"<2, <3"` becomes `"<3"`). `"!="` versions are excised from the ranges they fall within. A project's version is then checked for membership in the resulting ranges. (Note that providing conflicting conditions for the same version (e.g. `"<2,>=2"` or `"==2,!=2"`) is meaningless and may therefore produce bizarre results.)

Here are some example requirement specifiers:

docutils >= 0.3
# comment lines and \ continuations are allowed in requirement strings
BazSpam ==1.1, ==1.2, ==1.3, ==1.4, ==1.5, \
==1.6, ==1.7 # and so are line-end comments

PEAK[FastCGI, reST]>=0.5a4

setuptools==0.5a7

The simplest way to include requirement specifiers is to use the
``install_requires`` argument to ``setup()``. It takes a string or list of
strings containing requirement specifiers. If you include more than one
requirement in a string, each requirement must begin on a new line.

This has three effects:

1. When your project is installed, either by using EasyInstall, ``setup.py
install``, or ``setup.py develop``, all of the dependencies not already
installed will be located (via PyPI), downloaded, built (if necessary),
and installed.

2. Any scripts in your project will be installed with wrappers that verify
the availability of the specified dependencies at runtime, and ensure that
the correct versions are added to ``sys.path`` (e.g. if multiple versions
have been installed).

3. Python Egg distributions will include a metadata file listing the
dependencies.

Note, by the way, that if you declare your dependencies in ``setup.py``, you do
*not* need to use the ``require()`` function in your scripts or modules, as
long as you either install the project or use ``setup.py develop`` to do
development work on it. (See "Development Mode" below for more details on
using ``setup.py develop``.)

Dependencies that aren't in PyPI
---------------------------------

If your project depends on packages that aren't registered in PyPI, you may
still be able to depend on them, as long as they are available for download
as:

- an egg, in the standard distutils ``sdist`` format,
- a single ``.py`` file, or
- a VCS repository (Subversion, Mercurial, or Git).

You just need to add some URLs to the ``dependency_links`` argument to
``setup()``.

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The URLs must be either:

1. direct download URLs,
2. the URLs of web pages that contain direct download links, or
3. the repository's URL

In general, it's better to link to web pages, because it is usually less complex to update a web page than to release a new version of your project. You can also use a SourceForge ``showfiles.php`` link in the case where a package you depend on is distributed via SourceForge.

If you depend on a package that's distributed as a single `.py` file, you must include an `#egg=project-version` suffix to the URL, to give a project name and version number. (Be sure to escape any dashes in the name or version by replacing them with underscores.) EasyInstall will recognize this suffix and automatically create a trivial `setup.py` to wrap the single `.py` file as an egg.

In the case of a VCS checkout, you should also append `#egg=project-version` in order to identify for what package that checkout should be used. You can append `@REV` to the URL's path (before the fragment) to specify a revision. Additionally, you can also force the VCS being used by prepending the URL with a certain prefix. Currently available are:

- `svn+URL` for Subversion,
- `git+URL` for Git, and
- `hg+URL` for Mercurial

A more complete example would be:

```
``vcs+proto://host/path@revision#egg=project-version``
```

Be careful with the version. It should match the one inside the project files. If you want to disregard the version, you have to omit it both in the `requires` and in the URL's fragment.

This will do a checkout (or a clone, in Git and Mercurial parlance) to a temporary folder and run `setup.py bdist_egg``.

The `dependency_links` option takes the form of a list of URL strings. For example, the below will cause EasyInstall to search the specified page for eggs or source distributions, if the package's dependencies aren't already installed:

```
setup(  
...  
dependency_links = [
```
Declaring "Extras" (optional features with their own dependencies)

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

Sometimes a project has "recommended" dependencies, that are not required for all uses of the project. For example, a project might offer optional PDF output if ReportLab is installed, and reStructuredText support if docutils is installed. These optional features are called "extras", and setuptools allows you to define their requirements as well. In this way, other projects that require these optional features can force the additional requirements to be installed, by naming the desired extras in their `install_requires`.

For example, let's say that Project A offers optional PDF and reST support::

    setup(
        name="Project-A",
        ...
        extras_require = {
            'PDF': ["ReportLab>=1.2", "RXP"],
            'reST': ["docutils>=0.3"],
        }
    )

As you can see, the `extras_require` argument takes a dictionary mapping names of "extra" features, to strings or lists of strings describing those features' requirements. These requirements will *not* be automatically installed unless another package depends on them (directly or indirectly) by including the desired "extras" in square brackets after the associated project name. (Or if the extras were listed in a requirement spec on the EasyInstall command line.)

Extras can be used by a project's `entry_points` to specify dynamic dependencies. For example, if Project A includes a "rst2pdf" script, it might declare it like this, so that the "PDF" requirements are only resolved if the "rst2pdf" script is run::

    setup(
        name="Project-A",
        ...
        entry_points = {
            'console_scripts': [
Projects can also use another project's extras when specifying dependencies. For example, if project B needs "project A" with PDF support installed, it might declare the dependency like this::

```python
setup(
    name="Project-B",
    install_requires = ["Project-A[PDF]"],
    ...
)
```

This will cause ReportLab to be installed along with project A, if project B is installed -- even if project A was already installed. In this way, a project can encapsulate groups of optional "downstream dependencies" under a feature name, so that packages that depend on it don't have to know what the downstream dependencies are. If a later version of Project A builds in PDF support and no longer needs ReportLab, or if it ends up needing other dependencies besides ReportLab in order to provide PDF support, Project B's setup information does not need to change, but the right packages will still be installed if needed.

Note, by the way, that if a project ends up not needing any other packages to support a feature, it should keep an empty requirements list for that feature in its `extras_require` argument, so that packages depending on that feature don't break (due to an invalid feature name). For example, if Project A above builds in PDF support and no longer needs ReportLab, it could change its setup to this::

```python
setup(
    name="Project-A",
    ...
    extras_require = {
        "PDF": [],
        "reST": ["docutils>=0.3"],
    }
)
```

so that Package B doesn't have to remove the `"[PDF]\` from its requirement specifier.

Including Data Files

====================
The distutils have traditionally allowed installation of "data files", which are placed in a platform-specific location. However, the most common use case for data files distributed with a package is for use *by* the package, usually by including the data files in the package directory.

Setuptools offers three ways to specify data files to be included in your packages. First, you can simply use the ```include_package_data``` keyword, e.g.::

```python
from setuptools import setup, find_packages
setup(
    ...
    include_package_data = True
)
```

This tells setuptools to install any data files it finds in your packages. The data files must be specified via the distutils' ```MANIFEST.in``` file. (They can also be tracked by a revision control system, using an appropriate plugin. See the section below on `Adding Support for Revision Control Systems`_ for information on how to write such plugins.)

If you want finer-grained control over what files are included (for example, if you have documentation files in your package directories and want to exclude them from installation), then you can also use the ```package_data``` keyword, e.g.::

```python
from setuptools import setup, find_packages
setup(
    ...
    package_data = {
        # If any package contains *.txt or *.rst files, include them:
        ': ["*.txt", "*.rst"],
        # And include any *.msg files found in the 'hello' package, too:
        'hello': ["*.msg"],
    }
)
```

The ```package_data``` argument is a dictionary that maps from package names to lists of glob patterns. The globs may include subdirectory names, if the data files are contained in a subdirectory of the package. For example, if the package tree looks like this::

```bash
setup.py
src/
    mypkg/
        __init__.py
        mypkg.txt
```
from setuptools import setup, find_packages

setup(
...
    packages = find_packages('src'),  # include all packages under src
    package_dir = {'': 'src'},   # tell distutils packages are under src

    package_data = {
        # If any package contains *.txt files, include them:
        ': ['*.txt'],
        # And include any *.dat files found in the 'data' subdirectory
        # of the 'mypkg' package, also:
        'mypkg': ['data/*.dat'],
    }
)

Notice that if you list patterns in ``package_data`` under the empty string, these patterns are used to find files in every package, even ones that also have their own patterns listed. Thus, in the above example, the ``mypkg.txt`` file gets included even though it’s not listed in the patterns for ``mypkg``.

Also notice that if you use paths, you *must* use a forward slash (``/``) as the path separator, even if you are on Windows. Setuptools automatically converts slashes to appropriate platform-specific separators at build time.

(Note: although the ``package_data`` argument was previously only available in `setuptools`, it was also added to the Python `distutils` package as of Python 2.4; there is `some documentation for the feature` available on the python.org website. If using the setuptools-specific `include_package_data` argument, files specified by `package_data` will *not* be automatically added to the manifest unless they are listed in the MANIFEST.in file.)

http://docs.python.org/dist/node11.html

Sometimes, the ``include_package_data`` or ``package_data`` options alone aren’t sufficient to precisely define what files you want included. For example, you may want to include package README files in your revision control system and source distributions, but exclude them from being installed. So, setuptools offers an `exclude_package_data` option as well, that allows you to do things like this::

from setuptools import setup, find_packages

setup(
... packages = find_packages('src'), # include all packages under src package_dir = {'': 'src'},  # tell distutils packages are under src

include_package_data = True,  # include everything in source control

# ...but exclude README.txt from all packages
exclude_package_data = { "": ["README.txt"] },

)

The `exclude_package_data` option is a dictionary mapping package names to lists of wildcard patterns, just like the `package_data` option. And, just as with that option, a key of `''` will apply the given pattern(s) to all packages. However, any files that match these patterns will be excluded from installation, even if they were listed in `package_data` or were included as a result of using `include_package_data`.

In summary, the three options allow you to:

`include_package_data`
Accept all data files and directories matched by `MANIFEST.in`.

`package_data`
Specify additional patterns to match files and directories that may or may not be matched by `MANIFEST.in` or found in source control.

`exclude_package_data`
Specify patterns for data files and directories that should *not* be included when a package is installed, even if they would otherwise have been included due to the use of the preceding options.

NOTE: Due to the way the distutils build process works, a data file that you include in your project and then stop including may be "orphaned" in your project's build directories, requiring you to run `setup.py clean --all` to fully remove them. This may also be important for your users and contributors if they track intermediate revisions of your project using Subversion; be sure to let them know when you make changes that remove files from inclusion so they can run `setup.py clean --all`.

Accessing Data Files at Runtime
--------------------------------

Typically, existing programs manipulate a package's `__file__` attribute in order to find the location of data files. However, this manipulation isn't compatible with PEP 302-based import hooks, including importing from zip files and Python Eggs. It is strongly recommended that, if you are using data files, you should use the `Resource Management API` of `pkg_resources` to access
them. The `pkg_resources` module is distributed as part of setuptools, so if you're using setuptools to distribute your package, there is no reason not to use its resource management API. See also `Accessing Package Resources` for a quick example of converting code that uses `__file__` to use `pkg_resources` instead.

.. _Resource Management API: http://peak.telecommunity.com/DevCenter/PythonEggs#resource-management
.. _Accessing Package Resources: http://peak.telecommunity.com/DevCenter/PythonEggs#accessing-package-resources

Non-Package Data Files

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

The `distutils` normally install general "data files" to a platform-specific location (e.g. `/usr/share`). This feature intended to be used for things like documentation, example configuration files, and the like. `distutils` does not install these data files in a separate location, however. They are bundled inside the egg file or directory, alongside the Python modules and packages. The data files can also be accessed using the `Resource Management API` by specifying a `Requirement` instead of a package name::

    from pkg_resources import Requirement, resource_filename
    filename = resource_filename(Requirement.parse("MyProject"),"sample.conf")

The above code will obtain the filename of the "sample.conf" file in the data root of the "MyProject" distribution.

Note, by the way, that this encapsulation of data files means that you can't actually install data files to some arbitrary location on a user's machine; this is a feature, not a bug. You can always include a script in your distribution that extracts and copies your the documentation or data files to a user-specified location, at their discretion. If you put related data files in a single directory, you can use `resource_filename()` with the directory name to get a filesystem directory that then can be copied with the `shutil` module. (Even if your package is installed as a zipfile, calling `resource_filename()` on a directory will return an actual filesystem directory, whose contents will be that entire subtree of your distribution.)

(Of course, if you're writing a new package, you can just as easily place your data files or directories inside one of your packages, rather than using the distutils' approach. However, if you're updating an existing application, it may be simpler not to change the way it currently specifies these data files.)

Automatic Resource Extraction

-----------------------------
If you are using tools that expect your resources to be "real" files, or your project includes non-extension native libraries or other files that your C extensions expect to be able to access, you may need to list those files in the ``eager_resources`` argument to ``setup()`` so that the files will be extracted together, whenever a C extension in the project is imported.

This is especially important if your project includes shared libraries *other* than distutils-built C extensions, and those shared libraries use file extensions other than ``.dll``, ``.so``, or ``.dylib``, which are the extensions that setuptools 0.6a8 and higher automatically detects as shared libraries and adds to the ``native_libs.txt`` file for you. Any shared libraries whose names do not end with one of those extensions should be listed as ``eager_resources``, because they need to be present in the filesystem when the C extensions that link to them are used.

The ``pkg_resources`` runtime for compressed packages will automatically extract *all* C extensions and ``eager_resources`` at the same time, whenever *any* C extension or eager resource is requested via the ``resource_filename()`` API. (C extensions are imported using ``resource_filename()`` internally.) This ensures that C extensions will see all of the "real" files that they expect to see.

Note also that you can list directory resource names in ``eager_resources`` as well, in which case the directory's contents (including subdirectories) will be extracted whenever any C extension or eager resource is requested.

Please note that if you're not sure whether you need to use this argument, you don't! It's really intended to support projects with lots of non-Python dependencies and as a last resort for crufty projects that can't otherwise handle being compressed. If your package is pure Python, Python plus data files, or Python plus C, you really don't need this. You've got to be using either C or an external program that needs "real" files in your project before there's any possibility of ``eager_resources`` being relevant to your project.

Extensible Applications and Frameworks
======================================

.. _Entry Points:

Dynamic Discovery of Services and Plugins
------------------------------------------

``setuptools`` supports creating libraries that "plug in" to extensible applications and frameworks, by letting you register "entry points" in your project that can be imported by the application or framework.
For example, suppose that a blogging tool wants to support plugins that provide translation for various file types to the blog's output format. The framework might define an "entry point group" called `"blogtool.parsers"`, and then allow plugins to register entry points for the file extensions they support.

This would allow people to create distributions that contain one or more parsers for different file types, and then the blogging tool would be able to find the parsers at runtime by looking up an entry point for the file extension (or mime type, or however it wants to).

Note that if the blogging tool includes parsers for certain file formats, it can register these as entry points in its own setup script, which means it doesn't have to special-case its built-in formats. They can just be treated the same as any other plugin's entry points would be.

If you're creating a project that plugs in to an existing application or framework, you'll need to know what entry points or entry point groups are defined by that application or framework. Then, you can register entry points in your setup script. Here are a few examples of ways you might register an `.rst` file parser entry point in the `"blogtool.parsers"` entry point group, for our hypothetical blogging tool:

```python
setup(
    # ...
    entry_points = {'blogtool.parsers': '.rst = some_module:SomeClass'}
)
```

```python
setup(
    # ...
    entry_points = {'blogtool.parsers': ['.rst = some_module:a_func']}
)
```

```python
setup(
    # ...
    entry_points = "",
    [blogtool.parsers]
    .rst = some.nested.module:SomeClass.some_classmethod [reST]
    "",
    extras_require = dict(reST = "Docutils>=0.3.5")
)
```

The `"entry_points"` argument to `"setup()"` accepts either a string with `.ini`-style sections, or a dictionary mapping entry point group names to either strings or lists of strings containing entry point specifiers. An entry point specifier consists of a name and value, separated by an `="` sign. The value consists of a dotted module name, optionally followed by a `:"` and a dotted identifier naming an object within the module. It can
also include a bracketed list of "extras" that are required for the entry point to be used. When the invoking application or framework requests loading of an entry point, any requirements implied by the associated extras will be passed to `pkg_resources.require()`, so that an appropriate error message can be displayed if the needed package(s) are missing. (Of course, the invoking app or framework can ignore such errors if it wants to make an entry point optional if a requirement isn't installed.)

Defining Additional Metadata
----------------------------

Some extensible applications and frameworks may need to define their own kinds of metadata to include in eggs, which they can then access using the `pkg_resources` metadata APIs. Ordinarily, this is done by having plugin developers include additional files in their `ProjectName.egg-info` directory. However, since it can be tedious to create such files by hand, you may want to create a distutils extension that will create the necessary files from arguments to `setup()`, in much the same way that `setuptools` does for many of the `setup()` arguments it adds. See the section below on 'Creating distutils Extensions' for more details, especially the subsection on 'Adding new EGG-INFO Files'.

"Development Mode"
==================

Under normal circumstances, the `distutils` assume that you are going to build a distribution of your project, not use it in its "raw" or "unbuilt" form. If you were to use the `distutils` that way, you would have to rebuild and reinstall your project every time you made a change to it during development.

Another problem that sometimes comes up with the `distutils` is that you may need to do development on two related projects at the same time. You may need to put both projects' packages in the same directory to run them, but need to keep them separate for revision control purposes. How can you do this?

Setuptools allows you to deploy your projects for use in a common directory or staging area, but without copying any files. Thus, you can edit each project's code in its checkout directory, and only need to run build commands when you change a project's C extensions or similarly compiled files. You can even deploy a project into another project's checkout directory, if that's your preferred way of working (as opposed to using a common independent staging area or the site-packages directory).

To do this, use the `setup.py develop` command. It works very similarly to `setup.py install` or the EasyInstall tool, except that it doesn't actually
install anything. Instead, it creates a special ".egg-link" file in the deployment directory, that links to your project's source code. And, if your deployment directory is Python's "site-packages" directory, it will also update the "easy-install.pth" file to include your project's source code, thereby making it available on "sys.path" for all programs using that Python installation.

If you have enabled the "use_2to3" flag, then of course the ".egg-link" will not link directly to your source code when run under Python 3, since that source code would be made for Python 2 and not work under Python 3. Instead the "setup.py develop" will build Python 3 code under the "build" directory, and link there. This means that after doing code changes you will have to run "setup.py build" before these changes are picked up by your Python 3 installation.

In addition, the "develop" command creates wrapper scripts in the target script directory that will run your in-development scripts after ensuring that all your "install_requires" packages are available on "sys.path".

You can deploy the same project to multiple staging areas, e.g. if you have multiple projects on the same machine that are sharing the same project you're doing development work.

When you're done with a given development task, you can remove the project source from a staging area using "setup.py develop --uninstall", specifying the desired staging area if it's not the default.

There are several options to control the precise behavior of the "develop" command; see the section on the `develop` command below for more details.

Note that you can also apply setuptools commands to non-setuptools projects, using commands like this:

```
python -c "import setuptools; execfile('setup.py')" develop
```

That is, you can simply list the normal setup commands and options following the quoted part.

Distributing a "setuptools"-based project
========================================

Using "setuptools"... Without bundling it!
==========================================

Your users might not have "setuptools" installed on their machines, or even if they do, it might not be the right version. Fixing this is easy; just download `ez_setup.py`_, and put it in the same directory as your "setup.py".
script. (Be sure to add it to your revision control system, too.) Then add these two lines to the very top of your setup script, before the script imports anything from setuptools:

```
.. code-block:: python

    import ez_setup
ez_setup.use_setuptools()
```

That's it. The ``ez_setup`` module will automatically download a matching version of ``setuptools`` from PyPI, if it isn't present on the target system. Whenever you install an updated version of setuptools, you should also update your project's ``ez_setup.py`` files, so that a matching version gets installed on the target machine(s).

By the way, setuptools supports the new PyPI "upload" command, so you can use ```setup.py sdist upload``` or ```setup.py bdist_egg upload``` to upload your source or egg distributions respectively. Your project's current version must be registered with PyPI first, of course; you can use ```setup.py register``` to do that. Or you can do it all in one step, e.g. ```setup.py register sdist bdist_egg upload``` will register the package, build source and egg distributions, and then upload them both to PyPI, where they'll be easily found by other projects that depend on them.

(By the way, if you need to distribute a specific version of ``setuptools``, you can specify the exact version and base download URL as parameters to the ```use_setuptools()``` function. See the function's docstring for details.)

What Your Users Should Know
-------------------------------

In general, a setuptools-based project looks just like any distutils-based project -- as long as your users have an internet connection and are installing to ```site-packages```, that is. But for some users, these conditions don't apply, and they may become frustrated if this is their first encounter with a setuptools-based project. To keep these users happy, you should review the following topics in your project's installation instructions, if they are relevant to your project and your target audience isn't already familiar with setuptools and ```easy_install``.

Network Access

If your project is using ```ez_setup```, you should inform users of the need to either have network access, or to preinstall the correct version of setuptools using the ```EasyInstall installation instructions```_. Those instructions also have tips for dealing with firewalls as well as how to manually download and install setuptools.
Custom Installation Locations
You should inform your users that if they are installing your project to somewhere other than the main `site-packages` directory, they should first install setuptools using the instructions for `Custom Installation Locations`, before installing your project.

Your Project's Dependencies
If your project depends on other projects that may need to be downloaded from PyPI or elsewhere, you should list them in your installation instructions, or tell users how to find out what they are. While most users will not need this information, any users who don't have unrestricted internet access may have to find, download, and install the other projects manually. (Note, however, that they must still install those projects using `easy_install`, or your project will not know they are installed, and your setup script will try to download them again.)

If you want to be especially friendly to users with limited network access, you may wish to build eggs for your project and its dependencies, making them all available for download from your site, or at least create a page with links to all of the needed eggs. In this way, users with limited network access can manually download all the eggs to a single directory, then use the `--f` option of `easy_install` to specify the directory to find eggs in. Users who have full network access can just use `--f` with the URL of your download page, and `easy_install` will find all the needed eggs using your links directly. This is also useful when your target audience isn't able to compile packages (e.g. most Windows users) and your package or some of its dependencies include C code.

Revision Control System Users and Co-Developers
Users and co-developers who are tracking your in-development code using a revision control system should probably read this manual's sections regarding such development. Alternately, you may wish to create a quick-reference guide containing the tips from this manual that apply to your particular situation. For example, if you recommend that people use `setup.py develop` when tracking your in-development code, you should let them know that this needs to be run after every update or commit.

Similarly, if you remove modules or data files from your project, you should remind them to run `setup.py clean --all` and delete any obsolete `.pyc` or `.pyo`. (This tip applies to the distutils in general, not just setuptools, but not everybody knows about them; be kind to your users by spelling out your project's best practices rather than leaving them guessing.)

Creating System Packages
Some users want to manage all Python packages using a single package manager, and sometimes that package manager isn't `easy_install`! Setuptools currently supports `bdist_rpm`, `bdist_wininst`, and
``bdist_dumb`` formats for system packaging. If a user has a locally-installed `bdist` packaging tool that internally uses the distutils `install` command, it should be able to work with `setuptools`. Some examples of `bdist` formats that this should work with include the `bdist_nsi` and `bdist_msi` formats for Windows.

However, packaging tools that build binary distributions by running `setup.py install` on the command line or as a subprocess will require modification to work with setuptools. They should use the ``--single-version-externally-managed`` option to the `install` command, combined with the standard ``--root`` or ``--record`` options. See the `install command` documentation below for more details. The `bdist_deb` command is an example of a command that currently requires this kind of patching to work with setuptools.

If you or your users have a problem building a usable system package for your project, please report the problem via the mailing list so that either the `bdist` tool in question or setuptools can be modified to resolve the issue.

Setting the `zip_safe` flag
-------------------------

For some use cases (such as bundling as part of a larger application), Python packages may be run directly from a zip file. Not all packages, however, are capable of running in compressed form, because they may expect to be able to access either source code or data files as normal operating system files. So, `setuptools` can install your project as a zipfile or a directory, and its default choice is determined by the project's `zip_safe` flag.

You can pass a True or False value for the `zip_safe` argument to the `setup()` function, or you can omit it. If you omit it, the `bdist_egg` command will analyze your project's contents to see if it can detect any conditions that would prevent it from working in a zipfile. It will output notices to the console about any such conditions that it finds.

Currently, this analysis is extremely conservative: it will consider the project unsafe if it contains any C extensions or datafiles whatsoever. This does *not* mean that the project can't or won't work as a zipfile! It just means that the `bdist_egg` authors aren't yet comfortable asserting that the project *will* work. If the project contains no C or data files, and does no `__file__` or `__path__` introspection or source code manipulation, then there is an extremely solid chance the project will work when installed as a zipfile. (And if the project uses `pkg_resources` for all its data file access, then C extensions and other data files shouldn't be a problem at all. See the `Accessing Data Files at Runtime` section above for more information.)
However, if `bdist_egg` can't be *sure* that your package will work, but you've checked over all the warnings it issued, and you are either satisfied it *will* work (or if you want to try it for yourself), then you should set `zip_safe` to `True` in your `setup()` call. If it turns out that it doesn't work, you can always change it to `False`, which will force `setuptools` to install your project as a directory rather than as a zipfile.

Of course, the end-user can still override either decision, if they are using EasyInstall to install your package. And, if you want to override for testing purposes, you can just run `setup.py easy_install --zip-ok` or `setup.py easy_install --always-unzip` in your project directory, to install the package as a zipfile or directory, respectively.

In the future, as we gain more experience with different packages and become more satisfied with the robustness of the `pkg_resources` runtime, the "zip safety" analysis may become less conservative. However, we strongly recommend that you determine for yourself whether your project functions correctly when installed as a zipfile, correct any problems if you can, and then make an explicit declaration of `True` or `False` for the `zip_safe` flag, so that it will not be necessary for `bdist_egg` or `EasyInstall` to try to guess whether your project can work as a zipfile.

**Namespace Packages**

Sometimes, a large package is more useful if distributed as a collection of smaller eggs. However, Python does not normally allow the contents of a package to be retrieved from more than one location. "Namespace packages" are a solution for this problem. When you declare a package to be a namespace package, it means that the package has no meaningful contents in its `__init__.py`, and that it is merely a container for modules and subpackages.

The `pkg_resources` runtime will then automatically ensure that the contents of namespace packages that are spread over multiple eggs or directories are combined into a single "virtual" package.

The `namespace_packages` argument to `setup()` lets you declare your project's namespace packages, so that they will be included in your project's metadata. The argument should list the namespace packages that the egg participates in. For example, the ZopeInterface project might do this:

```python
setup(
    # ...
    namespace_packages = ['zope']
)
```
because it contains a ``zope.interface`` package that lives in the ``zope`` namespace package. Similarly, a project for a standalone ``zope.publisher`` would also declare the ``zope`` namespace package. When these projects are installed and used, Python will see them both as part of a "virtual" ``zope`` package, even though they will be installed in different locations.

Namespace packages don't have to be top-level packages. For example, Zope 3's ``zope.app`` package is a namespace package, and in the future PEAK's ``peak.util`` package will be too.

Note, by the way, that your project's source tree must include the namespace packages' ``__init__.py`` files (and the ``__init__.py`` of any parent packages), in a normal Python package layout. These ``__init__.py`` files *must* contain the line:

```
__import__('pkg_resources').declare_namespace(__name__)
```

This code ensures that the namespace package machinery is operating and that the current package is registered as a namespace package.

You must NOT include any other code and data in a namespace package's ``__init__.py``. Even though it may appear to work during development, or when projects are installed as ``.egg`` files, it will not work when the projects are installed using "system" packaging tools -- in such cases the ``__init__.py`` files will not be installed, let alone executed.

You must include the ``declare_namespace()`` line in the ``__init__.py`` of *every* project that has contents for the namespace package in question, in order to ensure that the namespace will be declared regardless of which project's copy of ``__init__.py`` is loaded first. If the first loaded ``__init__.py`` doesn't declare it, it will never *be* declared, because no other copies will ever be loaded!

**TRANSITIONAL NOTE**

```
~~~~~~~~~~~~~~~~~~~~
Setuptools automatically calls ``declare_namespace()`` for you at runtime, but future versions may *not*. This is because the automatic declaration feature has some negative side effects, such as needing to import all namespace packages during the initialization of the ``pkg_resources`` runtime, and also the need for ``pkg_resources`` to be explicitly imported before any namespace packages work at all. In some future releases, you'll be responsible for including your own declaration lines, and the automatic declaration feature will be dropped to get rid of the negative side effects.

During the remainder of the current development cycle, therefore, setuptools will warn you about missing ``declare_namespace()`` calls in your
```
```
``__init__.py`` files, and you should correct these as soon as possible before the compatibility support is removed. Namespace packages without declaration lines will not work correctly once a user has upgraded to a later version, so it's important that you make this change now in order to avoid having your code break in the field. Our apologies for the inconvenience, and thank you for your patience.

Tagging and "Daily Build" or "Snapshot" Releases
-----------------------------------------------

When a set of related projects are under development, it may be important to track finer-grained version increments than you would normally use for e.g. "stable" releases. While stable releases might be measured in dotted numbers with alpha/beta/etc. status codes, development versions of a project often need to be tracked by revision or build number or even build date. This is especially true when projects in development need to refer to one another, and therefore may literally need an up-to-the-minute version of something!

To support these scenarios, ``setuptools`` allows you to "tag" your source and egg distributions by adding one or more of the following to the project's "official" version identifier:

* A manually-specified pre-release tag, such as "build" or "dev", or a manually-specified post-release tag, such as a build or revision number (`--tag-build=STRING, -bSTRING`)

* A "last-modified revision number" string generated automatically from Subversion's metadata (assuming your project is being built from a Subversion "working copy") (`--tag-svn-revision, -r`)

* An 8-character representation of the build date (`--tag-date, -d`), as a postrelease tag

You can add these tags by adding ``egg_info`` and the desired options to the command line ahead of the ``sdist`` or ``bdist`` commands that you want to generate a daily build or snapshot for. See the section below on the `egg_info` command for more details.

(Also, before you release your project, be sure to see the section above on `Specifying Your Project's Version` for more information about how pre- and post-release tags affect how setuptools and EasyInstall interpret version numbers. This is important in order to make sure that dependency processing tools will know which versions of your project are newer than others.)

Finally, if you are creating builds frequently, and either building them in a downloadable location or are copying them to a distribution server, you should
probably also check out the `rotate`_ command, which lets you automatically
delete all but the N most-recently-modified distributions matching a glob
pattern. So, you can use a command line like::

    setup.py egg_info -rbDEV bdist_egg rotate -m.egg -k3

to build an egg whose version info includes 'DEV-rNNNN' (where NNNN is the
most recent Subversion revision that affected the source tree), and then
delete any egg files from the distribution directory except for the three
that were built most recently.

If you have to manage automated builds for multiple packages, each with
different tagging and rotation policies, you may also want to check out the
`alias`_ command, which would let each package define an alias like ``daily``
that would perform the necessary tag, build, and rotate commands. Then, a
simpler script or cron job could just run ``setup.py daily`` in each project
directory. (And, you could also define sitewide or per-user default versions
of the ``daily`` alias, so that projects that didn't define their own would
use the appropriate defaults.)

Generating Source Distributions
--------------------------------

``setuptools`` enhances the distutils' default algorithm for source file
selection with pluggable endpoints for looking up files to include. If you are
using a revision control system, and your source distributions only need to
include files that you're tracking in revision control, use a corresponding
plugin instead of writing a ``MANIFEST.in`` file. See the section below on
`Adding Support for Revision Control Systems`_ for information on plugins.

If you need to include automatically generated files, or files that are kept in
an unsupported revision control system, you'll need to create a ``MANIFEST.in``
file to specify any files that the default file location algorithm doesn't
catch. See the distutils documentation for more information on the format of
the ``MANIFEST.in`` file.

But, be sure to ignore any part of the distutils documentation that deals with
``MANIFEST`` or how it's generated from ``MANIFEST.in``; setuptools shields you
from these issues and doesn't work the same way in any case. Unlike the
distutils, setuptools regenerates the source distribution manifest file
every time you build a source distribution, and it builds it inside the
project's ``.egg-info`` directory, out of the way of your main project
directory. You therefore need not worry about whether it is up-to-date or not.

Indeed, because setuptools' approach to determining the contents of a source
distribution is so much simpler, its ``sdist`` command omits nearly all of
the options that the distutils' more complex ``sdist`` process requires. For
Making your package available for EasyInstall
---------------------------------------------

If you use the `register` command (`setup.py register`) to register your package with PyPI, that's most of the battle right there. (See the `docs for the register command` for more details.)

`docs for the register command: http://docs.python.org/dist/package-index.html`

If you also use the `upload` command to upload actual distributions of your package, that's even better, because EasyInstall will be able to find and download them directly from your project's PyPI page.

However, there may be reasons why you don't want to upload distributions to PyPI, and just want your existing distributions (or perhaps a Subversion checkout) to be used instead.

So here's what you need to do before running the `register` command. There are three `setup()` arguments that affect EasyInstall:

```
`url` and `download_url`
These become links on your project's PyPI page. EasyInstall will examine them to see if they link to a package ('primary links'), or whether they are HTML pages. If they're HTML pages, EasyInstall scans all HREF's on the page for primary links

`long_description`
EasyInstall will check any URLs contained in this argument to see if they are primary links.

A URL is considered a "primary link" if it is a link to a .tar.gz, .tgz, .zip, .egg, .egg.zip, .tar.bz2, or .exe file, or if it has an `#egg=project` or `#egg=project-version` fragment identifier attached to it. EasyInstall attempts to determine a project name and optional version number from the text of a primary link *without* downloading it. When it has found all the primary links, EasyInstall will select the best match based on requested version, platform compatibility, and other criteria.

So, if your `url` or `download_url` point either directly to a downloadable source distribution, or to HTML page(s) that have direct links to such, then EasyInstall will be able to locate downloads automatically. If you want to make Subversion checkouts available, then you should create links with either `#egg=project` or `#egg=project-version` added to the URL. You should replace `project` and `version` with the values they would have in an egg
filename. (Be sure to actually generate an egg and then use the initial part of the filename, rather than trying to guess what the escaped form of the project name and version number will be.)

Note that Subversion checkout links are of lower precedence than other kinds of distributions, so EasyInstall will not select a Subversion checkout for downloading unless it has a version included in the ``#egg=`` suffix, and it's a higher version than EasyInstall has seen in any other links for your project.

As a result, it's a common practice to use mark checkout URLs with a version of "dev" (i.e., ``#egg=projectname-dev``), so that users can do something like this:

```
easy_install --editable projectname==dev
```

in order to check out the in-development version of `projectname`.

Managing "Continuous Releases" Using Subversion
---------------------------------------------------

If you expect your users to track in-development versions of your project via Subversion, there are a few additional steps you should take to ensure that things work smoothly with EasyInstall. First, you should add the following to your project's `setup.cfg` file:

```
.. code-block:: ini

[egg_info]
tag_build = .dev
tag_svn_revision = 1
```

This will tell `setuptools` to generate package version numbers like `1.0a1.dev-r1263`, which will be considered to be an *older* release than `1.0a1`. Thus, when you actually release `1.0a1`, the entire egg infrastructure (including `setuptools`, `pkg_resources` and EasyInstall) will know that `1.0a1` supersedes any interim snapshots from Subversion, and handle upgrades accordingly.

(Note: the project version number you specify in `setup.py` should always be the *next* version of your software, not the last released version. Alternately, you can leave out the ``tag_build=.dev``, and always use the *last* release as a version number, so that your post-1.0 builds are labelled `1.0-r1263`, indicating a post-1.0 patchlevel. Most projects so far, however, seem to prefer to think of their project as being a future version still under development, rather than a past version being patched. It is of course possible for a single project to have both situations, using
post-release numbering on release branches, and pre-release numbering on the trunk. But you don't have to make things this complex if you don't want to.)

Commonly, projects releasing code from Subversion will include a PyPI link to their checkout URL (as described in the previous section) with an ``#egg=projectname-dev`` suffix. This allows users to request EasyInstall to download ``projectname==dev`` in order to get the latest in-development code. Note that if your project depends on such in-progress code, you may wish to specify your `install_requires` (or other requirements) to include ``==dev``, e.g.:

```python
install_requires = ['OtherProject>=0.2a1.dev-r143,==dev']
```

The above example says, "I really want at least this particular development revision number, but feel free to follow and use an ""#egg=OtherProject-dev"" link if you find one". This avoids the need to have actual source or binary distribution snapshots of in-development code available, just to be able to depend on the latest and greatest a project has to offer.

A final note for Subversion development: if you are using SVN revision tags as described in this section, it's a good idea to run ``setup.py develop`` after each Subversion checkin or update, because your project's version number will be changing, and your script wrappers need to be updated accordingly.

Also, if the project's requirements have changed, the `develop` command will take care of fetching the updated dependencies, building changed extensions, etc. Be sure to also remind any of your users who check out your project from Subversion that they need to run `setup.py develop` after every update in order to keep their checkout completely in sync.

Making "Official" (Non-Snapshot) Releases
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

When you make an official release, creating source or binary distributions, you will need to override the tag settings from ``setup.cfg``, so that you don't end up registering versions like ``foobar-0.7a1.dev-r34832``. This is easy to do if you are developing on the trunk and using tags or branches for your releases - just make the change to ``setup.cfg`` after branching or tagging the release, so the trunk will still produce development snapshots.

Alternately, if you are not branching for releases, you can override the default version options on the command line, using something like::

```bash
python setup.py egg_info -RDb "" sdist bdist_egg register upload
```
The first part of this command (``egg_info -RDb """") will override the configured tag information, before creating source and binary eggs, registering the project with PyPI, and uploading the files. Thus, these commands will use the plain version from your ``setup.py``, without adding the Subversion revision number or build designation string.

Of course, if you will be doing this a lot, you may wish to create a personal alias for this operation, e.g.::

    python setup.py alias -u release egg_info -RDb ""

You can then use it like this::

    python setup.py release sdist bdist_egg register upload

Or of course you can create more elaborate aliases that do all of the above. See the sections below on the `egg_info`_ and `alias`_ commands for more ideas.

Distributing Extensions compiled with Pyrex
-------------------------------------------

``setuptools`` includes transparent support for building Pyrex extensions, as long as you define your extensions using ``setuptools.Extension``, *not* ``distutils.Extension``. You must also not import anything from Pyrex in your setup script.

If you follow these rules, you can safely list ``.pyx`` files as the source of your `Extension` objects in the setup script. ``setuptools`` will detect at build time whether Pyrex is installed or not. If it is, then `setuptools` will use it. If not, `setuptools` will silently change the `Extension` objects to refer to the `.c` counterparts of the `.pyx` files, so that the normal distutils C compilation process will occur.

Of course, for this to work, your source distributions must include the C code generated by Pyrex, as well as your original `.pyx` files. This means that you will probably want to include current `.c` files in your revision control system, rebuilding them whenever you check changes in for the `.pyx` source files. This will ensure that people tracking your project in a revision control system will be able to build it even if they don't have Pyrex installed, and that your source releases will be similarly usable with or without Pyrex.
alias - Define shortcuts for commonly used commands
=======================================================================================================================

Sometimes, you need to use the same commands over and over, but you can't necessarily set them as defaults. For example, if you produce both development snapshot releases and "stable" releases of a project, you may want to put the distributions in different places, or use different `egg_info` tagging options, etc. In these cases, it doesn't make sense to set the options in a distutils configuration file, because the values of the options changed based on what you're trying to do.

Setuptools therefore allows you to define "aliases" - shortcut names for an arbitrary string of commands and options, using `setup.py alias aliasname expansion`, where aliasname is the name of the new alias, and the remainder of the command line supplies its expansion. For example, this command defines a sitewide alias called "daily", that sets various `egg_info` tagging options:

setup.py alias --global-config daily egg_info --tag-svn-revision --tag-build=development

Once the alias is defined, it can then be used with other setup commands, e.g.:

setup.py daily bdist_egg  # generate a daily-build .egg file
setup.py daily sdist      # generate a daily-build source distro
setup.py daily sdist bdist_egg  # generate both

The above commands are interpreted as if the word "daily" were replaced with `egg_info --tag-svn-revision --tag-build=development`.

Note that setuptools will expand each alias *at most once* in a given command line. This serves two purposes. First, if you accidentally create an alias loop, it will have no effect; you'll instead get an error message about an unknown command. Second, it allows you to define an alias for a command, that uses that command. For example, this (project-local) alias:

setup.py alias bdist_egg bdist_egg rotate -k1 -m.egg

redefines the `bdist_egg` command so that it always runs the `rotate` command afterwards to delete all but the newest egg file. It doesn't loop indefinitely on `bdist_egg` because the alias is only expanded once when used.

You can remove a defined alias with the `--remove` (or `--r`) option, e.g.:
would delete the "daily" alias we defined above.

Aliases can be defined on a project-specific, per-user, or sitewide basis. The default is to define or remove a project-specific alias, but you can use any of the "configuration file options" (listed under the `saveopts` command, below) to determine which distutils configuration file an aliases will be added to (or removed from).

Note that if you omit the "expansion" argument to the `alias` command, you'll get output showing that alias' current definition (and what configuration file it's defined in). If you omit the alias name as well, you'll get a listing of all current aliases along with their configuration file locations.

``bdist_egg`` - Create a Python Egg for the project

This command generates a Python Egg (`.egg` file) for the project. Python Eggs are the preferred binary distribution format for EasyInstall, because they are cross-platform (for "pure" packages), directly importable, and contain project metadata including scripts and information about the project's dependencies. They can be simply downloaded and added to `sys.path` directly, or they can be placed in a directory on `sys.path` and then automatically discovered by the egg runtime system.

This command runs the `egg_info` command (if it hasn't already run) to update the project's metadata (`egg-info`) directory. If you have added any extra metadata files to the `egg-info` directory, those files will be included in the new egg file's metadata directory, for use by the egg runtime system or by any applications or frameworks that use that metadata.

You won't usually need to specify any special options for this command; just use `bdist_egg` and you're done. But there are a few options that may be occasionally useful:

``--dist-dir=DIR, -d DIR``

Set the directory where the `.egg` file will be placed. If you don't supply this, then the `--dist-dir` setting of the `bdist` command will be used, which is usually a directory named `dist` in the project directory.

``--plat-name=PLATFORM, -p PLATFORM``

Set the platform name string that will be embedded in the egg's filename (assuming the egg contains C extensions). This can be used to override
the distutils default platform name with something more meaningful. Keep in mind, however, that the egg runtime system expects to see eggs with distutils platform names, so it may ignore or reject eggs with non-standard platform names. Similarly, the EasyInstall program may ignore them when searching web pages for download links. However, if you are cross-compiling or doing some other unusual things, you might find a use for this option.

``--exclude-source-files``
Don't include any modules' `.py` files in the egg, just compiled Python, C, and data files. (Note that this doesn't affect any `.py` files in the EGG-INFO directory or its subdirectories, since for example there may be scripts with a `.py` extension which must still be retained.) We don't recommend that you use this option except for packages that are being bundled for proprietary end-user applications, or for "embedded" scenarios where space is at an absolute premium. On the other hand, if your package is going to be installed and used in compressed form, you might as well exclude the source because Python's `traceback` module doesn't currently understand how to display zipped source code anyway, or how to deal with files that are in a different place from where their code was compiled.

There are also some options you will probably never need, but which are there because they were copied from similar `bdist` commands used as an example for creating this one. They may be useful for testing and debugging, however, which is why we kept them:

``--keep-temp, -k``
Keep the contents of the `--bdist-dir` tree around after creating the `.egg` file.

``--bdist-dir=DIR, -b DIR``
Set the temporary directory for creating the distribution. The entire contents of this directory are zipped to create the `.egg` file, after running various installation commands to copy the package's modules, data, and extensions here.

``--skip-build``
Skip doing any "build" commands; just go straight to the install-and-compress phases.

.. _develop:

``develop`` - Deploy the project source in "Development Mode"
===============================================================================

This command allows you to deploy your project's source for use in one or more "staging areas" where it will be available for importing. This deployment is
done in such a way that changes to the project source are immediately available in the staging area(s), without needing to run a build or install step after each change.

The `develop` command works by creating an `.egg-link` file (named for the project) in the given staging area. If the staging area is Python's `site-packages` directory, it also updates an `easy-install.pth` file so that the project is on `sys.path` by default for all programs run using that Python installation.

The `develop` command also installs wrapper scripts in the staging area (or a separate directory, as specified) that will ensure the project's dependencies are available on `sys.path` before running the project's source scripts. And, it ensures that any missing project dependencies are available in the staging area, by downloading and installing them if necessary.

Last, but not least, the `develop` command invokes the `build_ext -i` command to ensure any C extensions in the project have been built and are up-to-date, and the `egg_info` command to ensure the project's metadata is updated (so that the runtime and wrappers know what the project's dependencies are). If you make any changes to the project's setup script or C extensions, you should rerun the `develop` command against all relevant staging areas to keep the project's scripts, metadata and extensions up-to-date. Most other kinds of changes to your project should not require any build operations or rerunning `develop`, but keep in mind that even minor changes to the setup script (e.g. changing an entry point definition) require you to re-run the `develop` or `test` commands to keep the distribution updated.

Here are some of the options that the `develop` command accepts. Note that they affect the project's dependencies as well as the project itself, so if you have dependencies that need to be installed and you use `--exclude-scripts` (for example), the dependencies' scripts will not be installed either! For this reason, you may want to use EasyInstall to install the project's dependencies before using the `develop` command, if you need finer control over the installation options for dependencies.

```
--uninstall, -u
```

Un-deploy the current project. You may use the `--install-dir` or `--d` option to designate the staging area. The created `.egg-link` file will be removed, if present and it is still pointing to the project directory. The project directory will be removed from `easy-install.pth` if the staging area is Python's `site-packages` directory.

Note that this option currently does *not* uninstall script wrappers! You must uninstall them yourself, or overwrite them by using EasyInstall to activate a different version of the package. You can also avoid installing script wrappers in the first place, if you use the `--exclude-scripts` (aka `--x`) option when you run `develop` to deploy the project.
``--multi-version, -m``
"Multi-version" mode. Specifying this option prevents `develop` from adding an `easy-install.pth` entry for the project(s) being deployed, and if an entry for any version of a project already exists, the entry will be removed upon successful deployment. In multi-version mode, no specific version of the package is available for importing, unless you use `pkg_resources.require()` to put it on `sys.path`, or you are running a wrapper script generated by `setuptools` or EasyInstall. (In which case the wrapper script calls `require()` for you.)

Note that if you install to a directory other than `site-packages`, this option is automatically in effect, because `.pth` files can only be used in `site-packages` (at least in Python 2.3 and 2.4). So, if you use the `--install-dir` or `-d` option (or they are set via configuration file(s)) your project and its dependencies will be deployed in multi-version mode.

``--install-dir=DIR, -d DIR``
Set the installation directory (staging area). If this option is not directly specified on the command line or in a distutils configuration file, the distutils default installation location is used. Normally, this will be the `site-packages` directory, but if you are using distutils configuration files, setting things like `prefix` or `install_lib`, then those settings are taken into account when computing the default staging area.

``--script-dir=DIR, -s DIR``
Set the script installation directory. If you don't supply this option (via the command line or a configuration file), but you *have* supplied an `--install-dir` (via command line or config file), then this option defaults to the same directory, so that the scripts will be able to find their associated package installation. Otherwise, this setting defaults to the location where the distutils would normally install scripts, taking any distutils configuration file settings into account.

``--exclude-scripts, -x``
Don't deploy script wrappers. This is useful if you don't want to disturb existing versions of the scripts in the staging area.

``--always-copy, -a``
Copy all needed distributions to the staging area, even if they are already present in another directory on `sys.path`. By default, if a requirement can be met using a distribution that is already available in a directory on `sys.path`, it will not be copied to the staging area.

``--egg-path=DIR``
Force the generated `.egg-link` file to use a specified relative path
to the source directory. This can be useful in circumstances where your installation directory is being shared by code running under multiple platforms (e.g. Mac and Windows) which have different absolute locations for the code under development, but the same relative locations with respect to the installation directory. If you use this option when installing, you must supply the same relative path when uninstalling.

In addition to the above options, the `develop` command also accepts all of the same options accepted by `easy_install`. If you've configured any `easy_install` settings in your `setup.cfg` (or other distutils config files), the `develop` command will use them as defaults, unless you override them in a `[develop]` section or on the command line.

``easy_install`` - Find and install packages
============================================

This command runs the `EasyInstall tool <easy_install.html>`_ for you. It is exactly equivalent to running the `easy_install` command. All command line arguments following this command are consumed and not processed further by the distutils, so this must be the last command listed on the command line. Please see the EasyInstall documentation for the options reference and usage examples. Normally, there is no reason to use this command via the command line, as you can just use `easy_install` directly. It's only listed here so that you know it's a distutils command, which means that you can:

* create command aliases that use it,
* create distutils extensions that invoke it as a subcommand, and
* configure options for it in your `setup.cfg` or other distutils config files.

`` egg_info``

`` egg_info`` - Create egg metadata and set build tags
=====================================================

This command performs two operations: it updates a project's `.egg-info` metadata directory (used by the `bdist_egg`, `develop`, and `test` commands), and it allows you to temporarily change a project's version string, to support "daily builds" or "snapshot" releases. It is run automatically by the `sdist`, `bdist_egg`, `develop`, `register`, and `test` commands in order to update the project's metadata, but you can also specify it explicitly in order to temporarily change the project's version string while executing other commands. (It also generates the `.egg-info/SOURCES.txt` manifest file, which is used when you are building source distributions.)
In addition to writing the core egg metadata defined by `setuptools` and required by `pkg_resources`, this command can be extended to write other metadata files as well, by defining entry points in the `egg_info.writers` group. See the section on `Adding new EGG-INFO Files` below for more details. Note that using additional metadata writers may require you to include a `setup_requires` argument to `setup()` in order to ensure that the desired writers are available on `sys.path`.

Release Tagging Options

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

The following options can be used to modify the project's version string for all remaining commands on the setup command line. The options are processed in the order shown, so if you use more than one, the requested tags will be added in the following order:

```
--tag-build=NAME, -b NAME
```

Append NAME to the project's version string. Due to the way setuptools processes "pre-release" version suffixes beginning with the letters "a" through "e" (like "alpha", "beta", and "candidate"), you will usually want to use a tag like ".build" or ".dev", as this will cause the version number to be considered *lower* than the project's default version. (If you want to make the version number *higher* than the default version, you can always leave off --tag-build and then use one or both of the following options.)

If you have a default build tag set in your `setup.cfg`, you can suppress it on the command line using `--tag-build=""` or `--tag-build=none` as an argument to the `egg_info` command.

```
--tag-svn-revision, -r
```

If the current directory is a Subversion checkout (i.e. has a `.svn` subdirectory, this appends a string of the form ".rNNNN" to the project's version string, where NNNN is the revision number of the most recent modification to the current directory, as obtained from the `svn info` command.

If the current directory is not a Subversion checkout, the command will look for a `PKG-INFO` file instead, and try to find the revision number from that, by looking for a ".rNNNN" string at the end of the version number. (This is so that building a package from a source distribution of a Subversion snapshot will produce a binary with the correct version number.)

If there is no `PKG-INFO` file, or the version number contained therein does not end with `.r` and a number, then `--r0` is used.
``--no-svn-revision, -R``
Don't include the Subversion revision in the version number. This option is included so you can override a default setting put in ``setup.cfg``.

``--tag-date, -d``
Add a date stamp of the form "-YYYYMMDD" (e.g. "-20050528") to the project's version number.

``--no-date, -D``
Don't include a date stamp in the version number. This option is included so you can override a default setting in ``setup.cfg``.

(Note: Because these options modify the version number used for source and binary distributions of your project, you should first make sure that you know how the resulting version numbers will be interpreted by automated tools like EasyInstall. See the section above on `Specifying Your Project's Version`_ for an explanation of pre- and post-release tags, as well as tips on how to choose and verify a versioning scheme for your project.)

For advanced uses, there is one other option that can be set, to change the location of the project's `.egg-info` directory. Commands that need to find the project's source directory or metadata should get it from this setting:

Other `.egg-info` Options
--------------------------
``--egg-base=SOURCEDIR, -e SOURCEDIR``
Specify the directory that should contain the .egg-info directory. This should normally be the root of your project's source tree (which is not necessarily the same as your project directory; some projects use a `src` or `lib` subdirectory as the source root). You should not normally need to specify this directory, as it is normally determined from the `package_dir` argument to the `setup()` function, if any. If there is no `package_dir` set, this option defaults to the current directory.

`.egg_info` Examples
---------------------
Creating a dated "nightly build" snapshot egg::

    python setup.py egg_info --tag-date --tag-build=DEV bdist_egg

Creating and uploading a release with no version tags, even if some default tags are specified in `setup.cfg`:,
python setup.py egg_info -RDb "" sdist bdist_egg register upload

(Notice that ``egg_info` must always appear on the command line *before* any commands that you want the version changes to apply to.)

.. _install command:
``install`` - Run `easy_install` or old-style installation
==============================================================================

The setuptools `install` command is basically a shortcut to run the `easy_install` command on the current project. However, for convenience in creating "system packages" of setuptools-based projects, you can also use this option:

``--single-version-externally-managed``
This boolean option tells the `install` command to perform an "old style" installation, with the addition of an `.egg-info` directory so that the installed project will still have its metadata available and operate normally. If you use this option, you *must* also specify the `--root` or `--record` options (or both), because otherwise you will have no way to identify and remove the installed files.

This option is automatically in effect when `install` is invoked by another distutils command, so that commands like `bdist_wininst` and `bdist_rpm` will create system packages of eggs. It is also automatically in effect if you specify the `--root` option.

``install_egg_info`` - Install an `.egg-info` directory in `site-packages`
==============================================================================

Setuptools runs this command as part of `install` operations that use the `--single-version-externally-managed` options. You should not invoke it directly; it is documented here for completeness and so that distutils extensions such as system package builders can make use of it. This command has only one option:

``--install-dir=DIR, -d DIR``
The parent directory where the `.egg-info` directory will be placed. Defaults to the same as the `--install-dir` option specified for the `install_lib` command, which is usually the system `site-packages` directory.

This command assumes that the `egg_info` command has been given valid options via the command line or `setup.cfg`, as it will invoke the `egg_info` command and use its options to locate the project's source `.egg-info`
As you develop new versions of your project, your distribution (``dist``) directory will gradually fill up with older source and/or binary distribution files. The `rotate` command lets you automatically clean these up, keeping only the N most-recently modified files matching a given pattern.

``--match=PATTERNLIST, -m PATTERNLIST``
Comma-separated list of glob patterns to match. This option is *required*. The project name and ``-*`` is prepended to the supplied patterns, in order to match only distributions belonging to the current project (in case you have a shared distribution directory for multiple projects). Typically, you will use a glob pattern like ``*.zip`` or ``*.egg`` to match files of the specified type. Note that each supplied pattern is treated as a distinct group of files for purposes of selecting files to delete.

``--keep=COUNT, -k COUNT``
Number of matching distributions to keep. For each group of files identified by a pattern specified with the `--match` option, delete all but the COUNT most-recently-modified files in that group. This option is *required*.

``--dist-dir=DIR, -d DIR``
Directory where the distributions are. This defaults to the value of the `bdist` command's `--dist-dir` option, which will usually be the project's `dist` subdirectory.

**Example 1**
Delete all .tar.gz files from the distribution directory, except for the 3 most recently modified ones::

``setup.py rotate --match=.tar.gz --keep=3``

**Example 2**
Delete all Python 2.3 or Python 2.4 eggs from the distribution directory, except the most recently modified one for each Python version::

``setup.py rotate --match=-py2.3*.egg,-py2.4*.egg --keep=1``

`saveopts`
Save used options to a configuration file

``saveopts`` - Save used options to a configuration file
Finding and editing `distutils` configuration files can be a pain, especially since you also have to translate the configuration options from command-line form to the proper configuration file format. You can avoid these hassles by using the `saveopts` command. Just add it to the command line to save the options you used. For example, this command builds the project using the `mingw32` C compiler, then saves the --compiler setting as the default for future builds (even those run implicitly by the `install` command):

```bash
setup.py build --compiler=mingw32 saveopts
```

The `saveopts` command saves all options for every command specified on the command line to the project's local `setup.cfg` file, unless you use one of the `configuration file options` to change where the options are saved. For example, this command does the same as above, but saves the compiler setting to the site-wide (global) distutils configuration:

```bash
setup.py build --compiler=mingw32 saveopts -g
```

Note that it doesn't matter where you place the `saveopts` command on the command line; it will still save all the options specified for all commands. For example, this is another valid way to spell the last example:

```bash
setup.py saveopts -g build --compiler=mingw32
```

Note, however, that all of the commands specified are always run, regardless of where `saveopts` is placed on the command line.

### Configuration File Options

Normally, settings such as options and aliases are saved to the project's local `setup.cfg` file. But you can override this and save them to the global or per-user configuration files, or to a manually-specified filename.

```
``--global-config, -g``
Save settings to the global `distutils.cfg` file inside the `distutils` package directory. You must have write access to that directory to use this option. You also can't combine this option with `--u` or `--f`.

```
``--user-config, -u``
Save settings to the current user's `~/.pydistutils.cfg` (POSIX) or `$HOME/pydistutils.cfg` (Windows) file. You can't combine this option with `--g` or `--f`.

```
``--filename=FILENAME, -f FILENAME``
Save settings to the specified configuration file to use. You can't
combine this option with `--g` or `--u`. Note that if you specify a non-standard filename, the `distutils` and `setuptools` will not use the file's contents. This option is mainly included for use in testing.

These options are used by other `setuptools` commands that modify configuration files, such as the `alias` and `setopt` commands.

``setopt`` - Set a distutils or setuptools option in a config file

This command is mainly for use by scripts, but it can also be used as a quick and dirty way to change a distutils configuration option without having to remember what file the options are in and then open an editor.

**Example 1**. Set the default C compiler to `mingw32` (using long option names):

```
setup.py setopt --command=build --option=compiler --set-value=mingw32
```

**Example 2**. Remove any setting for the distutils default package installation directory (short option names):

```
setup.py setopt -c install -o install_lib -r
```

Options for the `setopt` command:

```
--command=COMMAND, -c COMMAND
```
Command to set the option for. This option is required.

```
--option=OPTION, -o OPTION
```
The name of the option to set. This option is required.

```
--set-value=VALUE, -s VALUE
```
The value to set the option to. Not needed if `--remove` is set.

```
--remove, -r
```
Remove (unset) the option, instead of setting it.

In addition to the above options, you may use any of the `configuration file options` (listed under the `saveopts` command, above) to determine which distutils configuration file the option will be added to (or removed from).
.. _test:

``test`` - Build package and run a unittest suite
=================================================================

When doing test-driven development, or running automated builds that need testing before they are deployed for downloading or use, it's often useful to be able to run a project's unit tests without actually deploying the project anywhere, even using the ``develop`` command. The ``test`` command runs a project's unit tests without actually deploying it, by temporarily putting the project's source on ``sys.path``, after first running ``build_ext -i`` and ``egg_info`` to ensure that any C extensions and project metadata are up-to-date.

To use this command, your project's tests must be wrapped in a ``unittest`` test suite by either a function, a ``TestSuite`` class or method, or a module or package containing ``TestSuite`` classes. If the named suite is a module, and the module has an ``additional_tests()`` function, it is called and the result (which must be a ``unittest.TestSuite``) is added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite. (Note: if your project specifies a ``test_loader``, the rules for processing the chosen ``test_suite`` may differ; see the `test_loader` documentation for more details.)

Note that many test systems including ``doctest`` support wrapping their non-``unittest`` tests in ``TestSuite`` objects. So, if you are using a test package that does not support this, we suggest you encourage its developers to implement test suite support, as this is a convenient and standard way to aggregate a collection of tests to be run under a common test harness.

By default, tests will be run in the "verbose" mode of the ``unittest`` package's text test runner, but you can get the "quiet" mode (just dots) if you supply the ``-q`` or ``--quiet`` option, either as a global option to the setup script (e.g. ``setup.py -q test``) or as an option for the ``test`` command itself (e.g. ``setup.py test -q``). There is one other option available:

``--test-suite=NAME, -s NAME``

Specify the test suite (or module, class, or method) to be run (e.g. ``some_module.test_suite``). The default for this option can be set by giving a ``test_suite`` argument to the ``setup()`` function, e.g.::

```python
setup(
    # ...
    test_suite = "my_package.tests.test_all"
)
```
If you did not set a ``test_suite`` in your `setup()` call, and do not provide a ``--test-suite`` option, an error will occur.

.. _upload:
``upload`` - Upload source and/or egg distributions to PyPI
=================================================================================================

The ``upload`` command is implemented and `documented <https://docs.python.org/3.1/distutils/uploading.html>`_
in distutils.

Setuptools augments the ``upload`` command with support for `keyring <https://pypi.python.org/pypi/keyring>`_, allowing the password to be stored in a secure location and not in plaintext in the .pypirc file. To use keyring, first install keyring and set the password for the relevant repository, e.g.::

    python -m keyring set <repository> <username>
    Password for '<username>' in '<repository>': ********

Then, in .pypirc, set the repository configuration as normal, but omit the password. Thereafter, uploads will use the password from the keyring.

New in 20.1: Added keyring support.

.. _upload_docs:
``upload_docs`` - Upload package documentation to PyPI
=================================================================================================

PyPI now supports uploading project documentation to the dedicated URL https://pythonhosted.org/<project>/.

The ``upload_docs`` command will create the necessary zip file out of a documentation directory and will post to the repository.

Note that to upload the documentation of a project, the corresponding version must already be registered with PyPI, using the distutils ``register`` command -- just like the ``upload`` command.

Assuming there is an ``Example`` project with documentation in the subdirectory ``docs``, e.g.::

    Example/
You can simply pass the documentation directory path to the `upload_docs` command:

```bash
python setup.py upload_docs --upload-dir=docs/build/html
```

If no `--upload-dir` is given, `upload_docs` will attempt to run the `build_sphinx` command to generate uploadable documentation. For the command to become available, `Sphinx <http://sphinx.pocoo.org/>`_ must be installed in the same environment as distribute.

As with other `setuptools`-based commands, you can define useful defaults in the `setup.cfg` of your Python project, e.g.:

```ini
[upload_docs]
upload-dir = docs/build/html
```

The `upload_docs` command has the following options:

```
--upload-dir
  The directory to be uploaded to the repository.

--show-response
  Display the full response text from server; this is useful for debugging PyPI problems.

--repository=URL, -r URL
  The URL of the repository to upload to. Defaults to https://pypi.python.org/pypi (i.e., the main PyPI installation).
```

--------------------------------
Extending and Reusing Setuptools
--------------------------------
Creating ``distutils`` Extensions
================================

It can be hard to add new commands or setup arguments to the distutils. But the ``setuptools`` package makes it a bit easier, by allowing you to distribute a distutils extension as a separate project, and then have projects that need the extension just refer to it in their ``setup_requires`` argument.

With ``setuptools``, your distutils extension projects can hook in new commands and ``setup()`` arguments just by defining "entry points". These are mappings from command or argument names to a specification of where to import a handler from. (See the section on ‘Dynamic Discovery of Services and Plugins’ above for some more background on entry points.)

Adding Commands
---------------

You can add new ``setup`` commands by defining entry points in the ``distutils.commands`` group. For example, if you wanted to add a ``foo`` command, you might add something like this to your distutils extension project's setup script:

```python
setup(
    # ...
    entry_points = {
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
    },
)
```

(Assuming, of course, that the ``foo`` class in ``mypackage.some_module`` is a ``setuptools.Command`` subclass.)

Once a project containing such entry points has been activated on ``sys.path``, (e.g. by running "install" or "develop" with a site-packages installation directory) the command(s) will be available to any ``setuptools``-based setup scripts. It is not necessary to use the ``--command-packages`` option or to monkeypatch the ``distutils.command`` package to install your commands; ``setuptools`` automatically adds a wrapper to the distutils to search for entry points in the active distributions on ``sys.path``. In fact, this is how setuptools' own commands are installed: the setuptools project's setup script defines entry points for them!

Adding ``setup()`` Arguments
----------------------------

---

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Sometimes, your commands may need additional arguments to the `setup()` call. You can enable this by defining entry points in the `distutils.setup_keywords` group. For example, if you wanted a `setup()` argument called `bar_baz`, you might add something like this to your `distutils` extension project's setup script:

```python
setup(
    # ...
    entry_points = {
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
        "distutils.setup_keywords": [
            "bar_baz = mypackage.some_module:validate_bar_baz",
        ],
    },
)
```

The idea here is that the entry point defines a function that will be called to validate the `setup()` argument, if it's supplied. The `Distribution` object will have the initial value of the attribute set to `None`, and the validation function will only be called if the `setup()` call sets it to a non-None value. Here's an example validation function:

```python
def assert_bool(dist, attr, value):
    """Verify that value is True, False, 0, or 1""
    if bool(value) != value:
        raise DistutilsSetupError("%r must be a boolean value (got %r)" % (attr,value))
```

Your function should accept three arguments: the `Distribution` object, the attribute name, and the attribute value. It should raise a `DistutilsSetupError` (from the `distutils.errors` module) if the argument is invalid. Remember, your function will only be called with non-None values, and the default value of arguments defined this way is always None. So, your commands should always be prepared for the possibility that the attribute will be `None` when they access it later.

If more than one active distribution defines an entry point for the same `setup()` argument, *all* of them will be called. This allows multiple `distutils` extensions to define a common argument, as long as they agree on what values of that argument are valid.

Also note that as with commands, it is not necessary to subclass or monkeypatch the `distutils` `Distribution` class in order to add your arguments; it is sufficient to define the entry points in your extension, as long as any setup
Adding new EGG-INFO Files
------------------------

Some extensible applications or frameworks may want to allow third parties to
develop plugins with application or framework-specific metadata included in
the plugins' EGG-INFO directory, for easy access via the `pkg_resources` metadata API. The easiest way to allow this is to create a distutils extension
to be used from the plugin projects' setup scripts (via `setup_requires`) that defines a new setup keyword, and then uses that data to write an EGG-INFO file when the `egg_info` command is run.

The `egg_info` command looks for extension points in an `egg_info.writers` group, and calls them to write the files. Here's a simple example of a
distutils extension defining a setup argument `foo_bar`, which is a list of
lines that will be written to `foo_bar.txt` in the EGG-INFO directory of any
project that uses the argument::

    setup(
        # ...
        entry_points = {
            "distutils.setup_keywords": [
                "foo_bar = setuptools.dist:assert_string_list",
            ],
            "egg_info.writers": [
                "foo_bar.txt = setuptools.command.egg_info:write_arg",
            ],
        },
    )

This simple example makes use of two utility functions defined by setuptools
for its own use: a routine to validate that a setup keyword is a sequence of
strings, and another one that looks up a setup argument and writes it to
a file. Here's what the writer utility looks like::

    def write_arg(cmd, basename, filename):
        argname = os.path.splitext(basename)[0]
        value = getattr(cmd.distribution, argname, None)
        if value is not None:
            value = '
'.join(value)+'
        cmd.write_or_delete_file(argname, filename, value)

As you can see, `egg_info.writers` entry points must be a function taking
three arguments: a `egg_info` command instance, the basename of the file to
write (e.g. `foo_bar.txt`), and the actual full filename that should be
written to.

In general, writer functions should honor the command object's `dry_run` setting when writing files, and use the `distutils.log` object to do any console output. The easiest way to conform to this requirement is to use the `cmd` object's `write_file()`, `delete_file()`, and `write_or_delete_file()` methods exclusively for your file operations. See those methods' docstrings for more details.

Adding Support for Revision Control Systems
----------------------------------------------

If the files you want to include in the source distribution are tracked using Git, Mercurial or SVN, you can use the following packages to achieve that:

- Git and Mercurial: `setuptools_scm <https://pypi.python.org/pypi/setuptools_scm>`_
- SVN: `setuptools_svn <https://pypi.python.org/pypi/setuptools_svn>`_

If you would like to create a plugin for `setuptools` to find files tracked by another revision control system, you can do so by adding an entry point to the `setuptools.file_finders` group. The entry point should be a function accepting a single directory name, and should yield all the filenames within that directory (and any subdirectories thereof) that are under revision control.

For example, if you were going to create a plugin for a revision control system called "foobar", you would write a function something like this:

```python
def find_files_for_foobar(dirname):
    # loop to yield paths that start with `dirname`
```

And you would register it in a setup script using something like this:

```python
entry_points = {
    "setuptools.file_finders": [ 
        "foobar = my_foobar_module:find_files_for_foobar"
    ]
}
```

Then, anyone who wants to use your plugin can simply install it, and their local setuptools installation will be able to find the necessary files.

It is not necessary to distribute source control plugins with projects that simply use the other source control system, or to specify the plugins in `setup_requires`. When you create a source distribution with the `sdist`
command, setuptools automatically records what files were found in the
``SOURCES.txt`` file. That way, recipients of source distributions don't need
to have revision control at all. However, if someone is working on a package
by checking out with that system, they will need the same plugin(s) that the
original author is using.

A few important points for writing revision control file finders:

* Your finder function MUST return relative paths, created by appending to the
  passed-in directory name. Absolute paths are NOT allowed, nor are relative
  paths that reference a parent directory of the passed-in directory.

* Your finder function MUST accept an empty string as the directory name,
  meaning the current directory. You MUST NOT convert this to a dot; just
  yield relative paths. So, yielding a subdirectory named ``some/dir`` under
  the current directory should NOT be rendered as ``./some/dir`` or
  `/somewhere/some/dir`, but *always* as simply ``some/dir``

* Your finder function SHOULD NOT raise any errors, and SHOULD deal gracefully
  with the absence of needed programs (i.e., ones belonging to the revision
  control system itself. It *may*, however, use ``distutils.log.warn()`` to
  inform the user of the missing program(s).

Subclassing ``Command``
-----------------------

Sorry, this section isn't written yet, and neither is a lot of what's below
this point.

XXX

Reusing ``setuptools`` Code
---------------------------

``ez_setup``
----------

XXX

``setuptools.archive_util``
--------------------------

XXX
``setuptools.sandbox``
----------------------
XXX

``setuptools.package_index``
----------------------------
XXX

Mailing List and Bug Tracker
============================
Please use the `distutils-sig mailing list` for questions and discussion about setuptools, and the `setuptools bug tracker` ONLY for issues you have confirmed via the list are actual bugs, and which you have reduced to a minimal set of steps to reproduce.

.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/
.. _setuptools bug tracker: https://github.com/pypa/setuptools/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/docs/setuptools.txt
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/pkg_resources/_vendor/six.py
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1.146 wget 1.15

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1.151 python-setuptools 28.8.0

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1.152 pep517 0.5.0

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1.154 go-colorable 0.1.6

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1.155 zlib 1.2.11

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   version 1.2.11, January 15th, 2017

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1.156 grpc 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 from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c0f2bb5b6.

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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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Protocol Buffers for Go with Gadgets

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

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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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- Bugfixes in testsuite

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  * Fixed pickle support of some exceptions

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  * 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 <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 @dbgrn <http://dbgrn.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 <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

* 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 <6yg1ez3@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.richter@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 ``urllib2.urlopen().geturl()`` behavior

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]
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1.171 tftp-hpa 5.2
1.171.1 Available under license:

No license file was found, but licenses were detected in source scan.

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 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 */

Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/tftp.c
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/common/tftpsubs.c
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/main.c

No license file was found, but licenses were detected in source scan.

/* -*- c -*- ------------------------------------------------------------- *
 *
 * Copyright 2001-2006 H. Peter Anvin - All Rights Reserved
 *
 * This program is free software available under the same license
 * as the "OpenBSD" operating system, distributed at

Open Source Used In IOS XR Software 7.5.2 2146
Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: @@VERSION@@
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

description
The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

description server
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp-server package provides the
server for TFTP, which allows users to transfer files to and from a
remote machine. TFTP provides very little security, and should not be
enabled unless it is expressly needed. The TFTP server is run from
/etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}
make INSTALLROOT=${RPM_BUILD_ROOT} \
    SBINDIR=%{_sbindir} MANDIR=%{_mandir} \n    install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
    /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftpboot
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*
%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
- Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
- Fix #55789
- Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
- Try applying HJ's patch from #65476

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
- Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
- Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
- Update to tftp-hpa-0.28 (bug #56131)
- Remove include/arpa/tftp.h to fix #57259
- Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
  - Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
  - updated tftp-hpa source to tftp-hpa-0.17
  - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
  - use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
  - rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
  - fix tftp client's put problems (#29529)
  - update to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
  - don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
  - fixed hpa-tftpd to handle files greater than 32MB (#23725)
  - added ".-l" flag to hpa-tftpd for file-logging (#26467)
  - added description for ".-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - updated tftp client to 0.17 stable (#19640),
  - drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
  - xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
  - fix to permit tftp put's (#18128).
  - startup as root with chroot to /tftpboot with early reversion to nobody
    is preferable to starting as nobody w/o ability to chroot.
  - %%%post is needed by server, not client. Add %%%postun for erasure as well.

* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
  - default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
  - correct group.
* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
  - change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
  - update to tftp-hpa-0.14 (#14003).
  - add server_args (#14003).
  - remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
  - cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
  - automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
  - FHS packaging.
  - update to 0.17.

* Fri May  5 2000 Matt Wilson <msw@redhat.com>
  - use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
  - fix description

* Wed Feb  9 2000 Jeff Johnson <jbj@redhat.com>
  - compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
  - man pages are compressed
  - fix description and summary

* Tue Jan  4 2000 Bill Nottingham <notting@redhat.com>
  - split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.15.

* Wed Apr  7 1999 Jeff Johnson <jbj@redhat.com>
  - tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
  - auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
  - compile for 6.0.
Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: 5.2
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

%description
The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}
make INSTALLROOT=${RPM_BUILD_ROOT} \n    SBINDIR=%{_sbindir}  MANDIR=%{_mandir} \n    SBINDIR=${RPM_BUILD_ROOT} \n    MANDIR=%{_mandir} \n    install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
    /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files server
%defattr(-,root,root)
%config(noreplace) %(_sysconfdir)/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
  - removed completely broken "Malta" patch.
  - integrated into build machinery so rpm -ta works.

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  - update to tftp-hpa-0.14 (#14003).
  - add server_args (#14003).
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* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
  - cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
  - automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
  - FHS packaging.
  - update to 0.17.

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  - fix description

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  - update to 0.16.

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  - auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
  - compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
  - build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
  - translations modified for de, fr, tr
* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp.spec
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/MCONFIG.in
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* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.c
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.h
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* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.c
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.h
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* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/tftp.1.in
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* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5.2-tar-bz2/tftp-hpa-5.2/tftp/extern.h
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5.2-tar-bz2/tftp-hpa-5.2/common/tftpsubs.h

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1.172 go-units 0.4.0

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1.174 gdbm 1.11

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```

1.175 flatbuffers 1.11.0

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1.176 ncurses 6.0

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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

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Written by: Philip Hazel
Email local part: ph10
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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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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 * *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on loss of link, and correctly re-enable PHY when link is re-established. (put back CFG_PHYIE)
 * *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStar PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers as needed. This means that data must always be copied to create the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire SDU, and leave <small_buffer_data> bytes empty at the start. Then copy small buffer contents to head of large buffer.
 *
 * Trick is to avoid fragmenting Linux, due to need for a lot of large buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
 * 2) skb_clone of received buffers
 * See nicstar_free_rx_skb and linearize_buffer for implementation details.
 *
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M. Welsh, 6 July 1996

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1.183 libdevmapper 2.03.06

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Requests includes some vendorized python libraries to ease installation.

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### 1.186 nytimes-gziphandler 1.1.1

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**1.187 kubernetes-api 0.16.9**

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Modemu Version 0.0.1
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<one line to give the program's name and a brief idea of what it does.>
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1.190 busybox 1.23.1

1.190.1 Available under license:

bzip2 applet in busybox is based on lightly-modified source of bzip2 version 1.0.4. bzip2 source is distributed under the following conditions (copied verbatim from LICENSE file)

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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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*
* curve25519-donna: Curve25519 elliptic curve, public key function
*
* http://code.google.com/p/curve25519-donna/
*
* Adam Langley <agl@imperialviolet.org>
*
* Derived from public domain C code by Daniel J. Bernstein <djb@cr.yp.to>
*
* More information about curve25519 can be found here
* http://cr.yp.to/ecdh.html
*
* djb's sample implementation of curve25519 is written in a special assembly
* language called qhasm and uses the floating point registers.
*
* This is, almost, a clean room reimplementation from the curve25519 paper. It
* uses many of the tricks described therein. Only the crecip function is taken
* from the sample implementation.
*/

1.193 python-requests 2.3.0

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Requests includes some vendorized python libraries to ease installation.

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  * 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 <graaffatcolmingov@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

* 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

* Jess 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 vending

* Wolfgang Richter <wolfgang.richter@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 Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

* 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

* James Meickle <https://permadeath.com/>
  * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
* Remove a spurious TypeError from the exception chain inside HTTPConnectionPool._make_request(), also for BaseExceptions.

* Jorge Lopez Silva <https://github.com/jalopezsilva>
  * Added support for forwarding requests through HTTPS proxies.

* Benno Rice <benno@jeamland.net>
  * Allow cadata parameter to be passed to underlying ```SSLContext.load_verify_locations()```

* Keiichi Kobayashi <abok.1k@gmail.com>
  * Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>
  * DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>
  * Test improvements

* Chris Olufson <stycarac@gmail.com>
  * Fix for connection not being released on HTTP redirect and response not preloaded

* [Bastiaan Bakker] <https://github.com/bastiaanb>
  * Support for logging session keys via environment variable ```SSLKEYLOGFILE``` (Python 3.8+)

* [Ezzeri Esa] <https://github.com/savarin>
  * Ports and extends on types from typeshed

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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 */

#ifndef UV_BSD_H
#define UV_BSD_H

#define UV_PLATFORM_FS_EVENT_FIELDS                                           
    uv__io_t event_watcher;                                                     
#define UV_IO_PRIVATE_PLATFORM_FIELDS                                         
        int rcount;                                                                 
        int wcount;                                                                 

#endif
#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */

Files: *

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EJS - Embedded JavaScript

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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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```go
package engine

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
    ',
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{
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",
        },
    }

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\nQuantity: 10 nodes\nExpiration 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\nQuantity: 20 nodes\nExpiration date: 2020-01-01",
},
}
}

out := &bytes.Buffer{}
err := SubscriptionsWrite(formatter.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{}
  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"
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}}
name: {{.Name}}
owner: {{.Owner}}
components: {{.ComponentsString}}`
    }  
    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 render
licenseCtx := licenseContext{
    licenseCtx.Header = map[string]string{
        "Num": numHeader,
        "Owner": ownerHeader,
        "Name": licenseNameHeader,
        "ID": idHeader,
        "DockerID": dockerIDHeader,
        "ProductID": productIDHeader,
        "ProductRatePlan": productRatePlanHeader,
        "ProductRatePlanID": productRatePlanIDHeader,
        "Start": startHeader,
        "Expires": expiresHeader,
        "State": stateHeader,
        "Eusa": eusaHeader,
        "ComponentsString": pricingComponentsHeader,
    }
    return ctx.Write(&licenseCtx, render)
}

licenseContext struct {
    formatter.HeaderContext
    trunc bool
    l 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
}
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
    }

    // 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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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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1.224 e2fsprogs 1.43

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*/
Index: tdbsa/tdb.c

===================================================================
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+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-    
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Theodore Ts'o
23-June-2007

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(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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If such an object file uses only numerical parameters, data
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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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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This package was put together by Yann Dirson <dirson@debian.org>,
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1.231 diffutils 3.6
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* configure.ac, Makefile.am: The original versions were derived from the
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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 3a0982da308228d796df35f98d787c5cf2bb5b6.

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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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1.240 x-sync 0.0.0-20201020160332-67f06af15bc9

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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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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.

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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 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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Appendix: How to Apply These Terms to Your New Libraries

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* *
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on loss of link, and correctly re-enable PHY when link is re-established. (put back CFG_PHYIE)
* *
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* *
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* *
* Linux driver for the IDT77201 NICSTAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* *
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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M. Welsh, 6 July 1996

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for the initial saa7146 driver and its recent overhaul

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for his work on the initial Linux DVB driver

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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a single nxt200x frontend driver.

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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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0. This License Agreement applies to any software library which
contains a notice placed by the copyright holder or other authorized
party saying it may be distributed under the terms of this Library
General Public License (also called "this License"). Each licensee is
addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification").
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

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

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

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

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also 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:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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and the section as a whole is intended to apply in other circumstances.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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.

<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!

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    Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

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.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.
When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

   a) The modified work must itself be a software library.
b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

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

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

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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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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1.250 goprotobuf 1.2.0

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1.253 linode-linodego 0.7.1

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1.254 sysv-init 2.88

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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).
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1.255 lighttpd 1.4.41

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1.256 lockfile 0.12.2

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That's all there is to it!

1.258 kubernetes-apimachinery 0.16.9
1.258.1 Available under license:

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1.259 x-oauth2 0.0.0-20190604053449-0f29369cfe45
1.259.1 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)
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](./CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](./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/586
* https://github.com/gophercloud/gophercloud/pull/587
* 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 [#723](https://github.com/gophercloud/gophercloud/issues/723).

**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 ([step-04-acceptance-testing.md](/docs/contributor-tutorial/step-04-acceptance-testing.md)) 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:

```
```shell
$ 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
Disadvantages of this Method:

* Additional commits to one Pull Request are independent of other Pull Requests

* 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:

```shell
$ 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 code reviewer see only the changes that were made.

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"
```
// 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 an 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}
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.Fprint(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.Fprint(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.Fprint(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)
    })
}
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 RESOURCE

import {
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
}

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type 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
    }
}

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", 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)
    })
}

w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, UpdateResult)
}
    return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
})

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
    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 {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    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
    }
    _, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    return
}

package testing

import (
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "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)
        return true, nil
    })
    if err != nil {
        t.Errorf("Unexpected error: %v", err)
    }
    t.Logf("List Resources: %d resources found", count)
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"

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)
}

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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.

*/

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/

package RESOURCE

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 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

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about 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:


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
    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"
    }
```

to look like:

```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"
    }
```
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).
1.260 docker

18.05.0+ce+gitf150324782643a5268a04e7d1a

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Gocheck - A rich testing framework for Go

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

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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.

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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(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
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1.277 quota 4.03

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1.278 dosfs-tools 2.11

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1.280 python 2.7.13

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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 (see
http://www.digicool.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. Digital Creations 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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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
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releases have also been GPL-compatible; the table below summarizes
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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.

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.

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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 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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END OF TERMS AND CONDITIONS

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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An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library.
Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the corresponding source code for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data

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a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

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e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)


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b) Give prominent notice with the combined library 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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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
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TERMS AND CONDITIONS

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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 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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1.288 gopkg.in/resty 1.12.0

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1.289 google-api-go-client 0.29.0

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import (
"bytes"
"io/ioutil"
"os"
"path/filepath"
"regexp"
"testing"
)
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var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)(\.)*( All rights
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(//|#) license that can be found in the LICENSE file.
`)
const prefix = "// Copyright"
// A few files have to be skipped.
var skip = map[string]bool{
"tools.go": true, // This file requires another comment above the license.
"internal/third_party/uritemplates/uritemplates.go":
true, // This file is licensed to an individual.
"internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}
// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
if skip[path] {
return nil
}
if err != nil {
return err
}
if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {
return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
return nil
}
// Verify that the license is matched.

Open Source Used In IOS XR Software 7.5.2 3596


if !sentinel.Match(src) {
    t.Errorf("%v: license header not present", path)
    return nil
}

// Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix)) {
    t.Errorf("%v: license header not at the top", path)
}
return nil
}

if err != nil {
    t.Fatal(err)
}

1.290 gzip 1.6
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package datatypes

// no documentation yet
type Legal_RegulatedWorkload struct {
    Entity

    // no documentation yet
    Account *Account `json:"account,omitempty" xmlrpc:"account,omitempty"

    // no documentation yet
    AccountId *int `json:"accountId,omitempty" xmlrpc:"accountId,omitempty"

    // no documentation yet
    EnabledFlag *bool `json:"enabledFlag,omitempty" xmlrpc:"enabledFlag,omitempty"

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"

    // no documentation yet
    Type *Legal_RegulatedWorkload_Type `json:"type,omitempty" xmlrpc:"type,omitempty"

    // no documentation yet
    WorkloadTypeId *int `json:"workloadTypeId,omitempty" xmlrpc:"workloadTypeId,omitempty"
}

// no documentation yet
type Legal_RegulatedWorkload_Type struct {
    Entity

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"

    // no documentation yet
    KeyName *string `json:"keyName,omitempty" xmlrpc:"keyName,omitempty"

    // no documentation yet
    Name *string `json:"name,omitempty" xmlrpc:"name,omitempty"
}
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Portions of the client are based on code at:
https://github.com/google/go-github/ and
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>>> dbus-1.11.12-1.ph2

SECTION 2: Apache License, V2.0

>>> photon-release-2.0-2.ph2

SECTION 3: BSD-STYLE, MIT-STYLE, OR SIMILAR STYLE LICENSES

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>>> expat-2.2.4-1.ph2
>>> iputils-20151218-4.ph2
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>>> libcap-2.25-7.ph2
>>> libdb-5.3.28-1.ph2
>>> libffi-3.2.1-5.ph2
>>> libgsolv-0.6.26-3.ph2
>>> libssh2-1.8.0-1.ph2
>>> libtirpc-1.0.1-8.ph2
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>>> sudo-1.8.20p2-5.ph2
>>> vim-8.0.0533-6.ph2
>>> xz-5.2.3-2.ph2
>>> zlib-1.2.11-1.ph2

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>>> e2fsprogs-1.43.4-2.ph2
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>>> bash-4.4.12-3.ph2
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>>> gzip-1.8-1.ph2
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>>> cracklib-2.9.6-8.ph2
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>>> libgcrypt-1.8.1-2.ph2
>>> libgpg-error-1.27-1.ph2
>>> systemd-233-18.ph2

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>>> glib-2.52.1-3.ph2

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>>> ca-certificates-20180919-1.ph2
>>> nspr-4.15-1.ph2
>>> nss-3.31.1-1.ph2

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>>> coreos_etcd_client-781196fa8746d6c34ace2a62898051af6dc46002

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Go support for leveled logs, analogous to https://code.google.com/google-glog

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google-api-go-client-dfa61ae24628a06502b9c2805d983b57e89399b5.tar.gz

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>>> armon_go-metrics-f303b03b91d770a11a39677f1d3b55da4002bbcb

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>>> armon_go-radix-4239b77079c7b5d1243b7b4736304ce8ddb6f0f2

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>>> asaskevich_govalidator-9699ab6b38bee2e02cd3fe8b99ecf67665395c96

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>>> go-check_check-20d25e2804050c1cd24a7eea1e7a6447dd0e74ec
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>>> godbus_dbus-230e4b23db2f81c53eaa0073f76659d4849ce51

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protobuf-6a92c871a8f5333cf106b2cd937567208dbb2b7/codec/codec.go

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tomb - support for clean goroutine termination in Go.

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>>> ugorji_go_codec-708a42d246822952f38190a8d8c4e6b16a0e600c

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>>> x_crypto_curve25519-728b753d0135da6801d45a38e6f43ff55779c5c2

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It was heavily inspired by the go blowfish package.

>>> x_crypto_nacl_secretbox-728b753d0135da6801d45a386f43ff55779c5c2

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+build appengine

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package short

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For the verification of the code, its output sequence file
mt19937int.out is attached (2001/4/2)

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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 Antoan Bosselaers <antoan.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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Written by Gary V. Vaughan, 2004

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Bison implementation for Yacc-like parsers in C


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Cryptographic attack detector for ssh - source code

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@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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Email local part: ph10
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TH su 1 "18 August 1999" "GNU Shell Utilities 20"

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his C header file is part of the SoftFloat IEC/IEEE Floating-point Arithmetic Package, Release 2.

Written by John R. Hauser. This work was made possible in part by the International Computer Science Institute, located at Suite 600, 1947 Center Street, Berkeley, California 94704. Funding was partially provided by the National Science Foundation under grant MIP-9311980. The original version of this code was written as part of a project to build a fixed-point vector processor in collaboration with the University of California at Berkeley, overseen by Profs. Nelson Morgan and John Wawrzynek. More information is available through the Web page http://www.jhauser.us/arithmetic/SoftFloat-2b/SoftFloat-source.txt

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Reasonably optimised generic C-code for memcpy on Microblaze
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This code offers a very basic support for this EISA bus present in the SGI Indigo-2. It currently only supports PIO (forget about DMA for the time being). This is enough for a low-end ethernet card, but forget about your favorite SCSI card...

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A more complete resource is the third edition of "Linux Device Drivers" by Jonathan Corbet, Alessandro Rubini, and Greg Kroah-Hartman. LDD3 is available for free (under Creative Commons License) from:

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However, keep in mind that all documents are subject to "bit rot". Refer to the source code if things are not working as described here.

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4.9.154.tar\include\uapi\linux\dm-ioctl.h

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```bash
>>> procps-ng-3.3.15-2.ph2
```

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```bash
procps-ng-3.3.15.tar.xz\procps-ng-3.3.15.tar\procps-ng-3.3.15\mkinstalldirs
```

mkinstalldirs --- make directory hierarchy
Author: Noah Friedman <friedman@prep.ai.mit.edu>
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```bash
procps-ng-3.3.15.tar.xz\procps-ng-3.3.15.tar\procps-ng-3.3.15\pmap.c
```

pmap.c - print process memory mapping
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rpm-4.13.0.2-release\misc\fts.h

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rpm-4.13.0.2-release\tools\mkinstalldirs

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line - read one line


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uuidparse.c --- Interpret uuid encoded information. This program
violates the UUID abstraction barrier by reaching into the
guts of a UUID.

Based on libuuid/src/uuid_time.c
Copyright (C) 1998, 1999 Theodore Ts'o.

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2.32\m4\compiler.m4

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From Simon Josefsson
-- derivated from coreutils m4/warnings.m4
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setpwnam.c -- edit an entry in a password database.

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Edited 11/10/96 (DD/MM/YY :-) by Nicolai Langfeldt (janl@math.uio.no)
to read /etc/passwd directly so that passwd, chsh and chfn can work on
machines that run NIS (previously YP). Changes will not be made to
usernames starting with +.

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Usage:
1) get a struct passwd from getpwnam().
You should assume a struct passwd has an infinite number of fields, so
you should not try to create one from scratch.
2) edit the fields you want to edit.
3) call setpwnam() with the edited struct passwd.

A _normal user_ program should never directly manipulate etc/passwd but
/use getpwnam() and (family, as well as) setpwnam().

But, setpwnam was made to _edit_ the password file. For use by chfn,
chsh and passwd. _I_ _HAVE_ to read and write /etc/passwd directly. Let
those who say nay be forever silent and think about how getpwnam (and
family) works on a machine running YP.

Added checks for failure of malloc() and removed error reporting to
stderr, this is a library function and should not print on the screen,
but return appropriate error codes.
27-Jan-97 - poe@daimi.aau.dk

Thanks to "two guys named Ian".

$Author: poer $
$Revision: 1.13 $
$Date: 1997/06/23 08:26:29 $

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Python bindings for the libmount library.

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Written by Ondrej Oprala and Karel Zak

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Bison implementation for Yacc-like parsers in C


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error.c -- Functions for handling errors.

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A Bison parser, made by GNU Bison 3.0.4.

Bison interface for Yacc-like parsers in C

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/ Bison implementation for Yacc-like parsers in C


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The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

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alloca.c -- allocate automatically reclaimed memory
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As a special case, alloca(0) reclaims storage without allocating any. It is a good idea to use alloca(0) in your main control loop, etc. to force garbage collection.
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DRBG: Deterministic Random Bits Generator
Based on NIST Recommended DRBG from NIST SP800-90A with the following properties:
CTR DRBG with DF with AES-128, AES-192, AES-256 cores
Hash DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
HMAC DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
with and without prediction resistance

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Test Socket Type

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Version 3, 29 June 2007

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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

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.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software 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 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.

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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addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

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

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

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

   You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also 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:

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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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
Ty Coon, President of Vice

That's all there is to it!

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Version 2.1, February 1999

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To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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

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

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

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

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

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

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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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:

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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.

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subsequent copies and derivative works made from that copy.

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

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

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

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SIL OPEN FONT LICENSE

Version 1.1 - 26 February 2007

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1.298 ipmiutil 1.8.17
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1.300 libxdmcp 1.1.2

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1.301 logrus 1.6.0

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1.302 go-jmespath 0.4.0

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1.303 cryptsetup 1.7.2

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* /opt/cola/permits/1212202758_1634074081.68/0/grpc protobuf-1-25-0-sources-1-jar/io/grpc/protobuf/package-info.java
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1.310 pcre 8.39
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1.311 libsgutils 1.42

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1.312 masterminds-semver 1.4.2

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1.313 fcgi 2.4.1

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@item
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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!

Description:
Concatenate two arbitrary file names.

Files:
lib/filenamecat.h
lib/filenamecat-lgpl.c
m4/filenamecat.m4

Depends-on:
dirname-lgpl

configure.ac:
gl_FILE_NAME_CONCAT_LGPL

Makefile.am:
lib_SOURCES += filenamecat-lgpl.c

Include:
"filenamecat.h"

License:
LGPLv2+

Maintainer:
Jim Meyering
Please email the following information to assign@gnu.org, and we will send you the assignment form for your past and future changes.
REQUEST: SEND FORM FOR PAST AND FUTURE CHANGES

[What is the name of the program or package you're contributing to?]

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[For the copyright registration, what country are you a citizen of?]

[What year were you born?]

[Please write your email address here.]

[Please write your postal address here.]

[Which files have you changed so far, and which new files have you written so far?]

Description:
Provide the GNU Free Documentation License in Texinfo format.

Files:
doc/fdl.texi

Depends-on:
configure.ac:

Makefile.am:

Include:
License:
unmodifiable license text

Maintainer:
all

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Description:
Ensure getcwd(NULL, 0) returns a buffer allocated by the malloc() function.

Files:
lib/getcwd-lgpl.c
m4/getcwd.m4

Depends-on:
unistd
stdout
[tes $REPLACE_GETCWD = 1]

configure.ac:
gl_FUNC_GETCWD_LGPL
if test $REPLACE_GETCWD = 1; then
   AC_LIBOBJ([getcwd-lgpl])
fi
gl_UNISTD_MODULE_INDICATOR([getcwd])

Makefile.am:

Include:
<unistd.h>

License:
LGPLv2+

Maintainer:
Eric Blake

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  This allows the FSF to act to stop violations of the GPL.

* Keep the copyright and release the program yourself under the GNU GPL. (This alternative is too impractical for contributions to a preexisting FSF-copyrighted GNU program.)

* Put the code in the public domain. Then there is nothing to stop hoarding of modified versions, but we can still use the program in GNU.

Most of these alternatives require a signed piece of paper, or in some cases a digital signature, to make it happen.

* Assigning copyright.

Assigning the copyright means signing a contract that makes the Free Software Foundation the "owner" of the program according to the law. As the copyright holder, the Foundation can sue anyone who tries to distribute the program as a proprietary product. We are willing to keep your name on the program as the author for as long as the program remains recognizably distinct. ("Owner" is in quotes to show that we don't really believe in this kind of ownership.)
The assignment contract commits the foundation to setting distribution
terms that permit free redistribution.

Often we don't want to do the work of starting to distribute a program
right away. There are many things which we will need in order to have
a complete system but which aren't really useful until the rest of the
system is done. But signing the assignment does not stop you from
distributing the program yourself--as long as you do so under the GNU
terms. You don't have to wait for us to start distributing. You can
start distributing as soon as you attach our standard copyleft to the
files. (Ask for our advice on how to do this.)

The assignment contract we normally use has a clause that permits you
to use your code in proprietary programs, on 30 days' notice. (The 30
days' notice is there because, through a legal technicality, it would
improve our position in a suit against a hoarder.) Although we
believe that proprietary software is wrong, we include this clause
because it would serve no purpose to ask you to promise not to do it.
You're giving us a gift in the first place.

You don't need to invoke this clause in order to distribute copies as
free software under the GNU GPL, since everyone is allowed to do that.

* Releasing it yourself.

You can release a program yourself under copyleft distribution terms
such as the GNU GPL. (In order to accept the program as GNU software,
we would have to be happy with your choice of terms.) This does not
require a contract between you and the FSF, but we would appreciate
having a signed piece of paper to confirm your decision.

If someone violates your terms--for example, if someone gets a copy
from us, and uses it as a basis for a proprietary product in violation
of the terms--we cannot sue him. You would have to sue, or he gets
away with it.

* Public domain.

If you put the program in the public domain, we prefer to have a signed
piece of paper--a disclaimer of rights--from you confirming this. If the
program is not very important, we can do without one; the worst that could
happen is that we might some day be forced to stop using it.

The law says that anyone can copyright a modified version of the public
domain work. (This doesn't restrict the original, which remains in the
public domain; only the changes are copyrighted.) If we make extensive
changes, we will probably do this and add our usual copyleft. If we make
small changes, we will leave the version we distribute in the public
domain.

* What about your employer?

If you are employed to do programming, or have made an agreement with your employer that says it owns programs you write, we need a signed piece of paper from your employer disclaiming rights to the program. It should be signed by a vice president or general manager of the company. If you can't get at them, it is almost as good to find someone who signs licenses for software that is purchased. Here is a sample wording:

Digital Simulation Corporation hereby disclaims all copyright interest in the program "sample.el" (a program to direct assemblers to make passes at compilers under GNU Emacs) written by Hugh Hacker.

<signature of Mo Ghoul>, 1 April 1987
Mo Ghoul, President of Vice, Digital Simulation Corp.

The description of what the program does is just to make it clearer what the disclaimer covers.

If what you did was change an existing program, it should say this:

...in the changes and enhancements made by Hugh Hacker to the program "sample.el".

* Did anyone else contribute?

If someone else contributed more than a few lines here or there to the program, then that person too is an author, and that person too needs to sign papers just as you do. So may that person's employer. However, if his contribution is just a fraction of the whole work, it is satisfactory if he disclaims his own rights, even if you are assigning yours. (If just the minor contributors' work goes in the public domain, that doesn't leave much of a loophole for hoarders.)

If you incorporated packages which you found floating around as "public domain", we might still want to track down their authors, to get disclaimers to reassure us that they really are in the public domain. So keep track of what these packages are and who wrote them.

* A reminder:

In working on a project for GNU, DO NOT study and follow any Unix sources or other non-free software that might have any bearing on the project. Don't refer to them at all, unless you are forced to for non-GNU reasons.
It is not considered a serious problem if you have read Unix sources or other non-free source code in the past for other purposes, provided you don't copy anything in particular from them. However, referring to them while you do the work could cause us legal problems later. The files in this directory describe the gnu-lib modules.

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Please use your full legal name (in ASCII characters) as the subject line of the message.
REQUEST: SEND FORM FOR CHANGES ALREADY MADE

[What is the name of the program or package you're contributing to?]

[Did you copy any files or text written by someone else in these changes? Even if that material is free software, we need to know about it.]

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[For the copyright registration, what country are you a citizen of?]

[What year were you born?]

[Please write your email address here.]

[Please write your postal address here.]
[Which files have you changed so far, and which new files have you written so far?] Please email the following information to assign@gnu.org, and we will send you the disclaimer form for your changes. This form is preferred when your changes are small, they do not add any nontrivial new files, and you are finished making them (aside perhaps from small bug fixes).

If you would like to make further contributions to the same package, and you would like to avoid the need to sign more papers when you contribute them, you have another option: to sign a copyright assignment covering your future changes. If that is what you want to do, please tell the maintainer you would prefer to sign an assignment of past and future changes.

Please use your full legal name (in ASCII characters) as the subject line of the message.

---------------------------------------------
REQUEST: SEND DISCLAIMER FORM

[What is the name of the program or package you're contributing to?]  

[Did you copy any files or text written by someone else in these changes? Even if that material is free software, we need to know about it.]  

[Do you have an employer who might have a basis to claim to own your changes?]  

[Please write your email address here.]  

[Please write your snail address here.]  

[Please list the files involved, or give a brief description of the changes being disclaimed.]  
Description:  
realpath, canonicalize_file_name: Provide canonical absolute file name  

Files:  
lib/canonicalize-lgpl.c
m4/canonicalize.m4
m4/double-slash-root.m4

Depends-on:
extensions
stdlib
nocrash
alloca-opt [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
errno [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
lstat [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
malloca [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
memmove [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
pathmax [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
readlink [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
sys_stat [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]

configure.ac:

gl_CANONICALIZE_LGPL
if test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1; then
   AC_LIBOBJ([canonicalize-lgpl])
fi

Makefile.am:

Include:
<stdlib.h>

License:
LGPLv2+

Maintainer:
all
Description:
Extract specific portions of filenames.

Files:
lib/dirname.h
lib/dname-lgpl.c
lib/basename-lgpl.c
lib/stripslash.c
m4/dname.m4

Depends-on:
dosname
double-slash-root
malloc-posix
stdbool

configure.ac:
gl_DIRNAME_LGPL

Makefile.am:
lib_SOURCES += dname-lgpl.c basename-lgpl.c stripslash.c

Include:
"dname.h"

License:
LGPLv2+

Maintainer:
Jim Meyering, Eric Blake

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Version 3, 29 June 2007

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Files:
tests/test-update-copyright.sh
depends-on:

configure.ac:
abs_aux_dir=`cd "$ac_aux_dir"; pwd`
AC_SUBST([abs_aux_dir])

Makefile.am:
TESTS += test-update-copyright.sh
TESTS_ENVIRONMENT += abs_aux_dir='$(abs_aux_dir)'
Files:
tests/test-canonicalize-lgpl.c
tests/signature.h
tests/null-ptr.h
tests/macros.h

depends-on:
ignore-value
same_inode
symlink

configure.ac:

Makefile.am:
TESTS += test-canonicalize-lgpl
check_PROGRAMS += test-canonicalize-lgpl
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@center Version 2, June 1991

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@c hence no sectioning command or @node.

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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 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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```

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Some of the source files in lib/ have different licenses. Also, the
copy of maintain.texi in doc/ has a verbatim-copying license, and
doc/standards.texi and make-stds.texi are GFDL. Most (but not all)
m4/*.m4 files have nearly unlimited licenses.

Description:
Help make libraries relocatable, that is, to allow them to function properly when copied to an arbitrary directory.

Files:
doc/relocatable.texi
lib/relocatable.h
lib/relocatable.c
lib/relocatable.valgrind
m4/relocatable-lib.m4

Depends-on:
strdup

configure.ac:
gl_RELOCATABLE_LIBRARY
if test $RELOCATABLE = yes; then
   AC_LIBOBJ([relocatable])
fi

Makefile.am:
DEFS += -DNO_XMALLOC

Include:
"relocatable.h"

License:
LGPLv2+

Maintainer:
Ben Pfaff

Description:
Locating a program in PATH (LGPLed version).

Files:
lib/findprog.h
lib/findprog.c
lib/findprog-lgpl.c
m4/findprog.m4
m4/eaccess.m4

Depends-on:
stdbool
strdup
concat-filename
unistd
configure.ac:

gl_FINDPROG

gl_MODULE_INDICATOR([findprog-lgpl])

Makefile.am:

lib_SOURCES += findprog.h findprog.c

Include:
“findprog.h”

License:
LGPLv2+

Maintainer:
all

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Files:  
tests/test-getcwd-lgpl.c  
tests/signature.h  
tests/macros.h  

Depends-on:
configure.ac:

Makefile.am:
TESTS += test-getcwd-lgpl
check_PROGRAMS += test-getcwd-lgpl
test_getcwd_lgpl_LDADD = $(LDADD) $(LIBINTL)

1.326 gosqlite 1.1.0
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# Contributions to the urllib3 project

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In chronological order:
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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/@WBRSRIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
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  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

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  * Support for explicitly closing pooled connections

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  * 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

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  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovksy <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <https://flukasa.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

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  * Fixed a race condition

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  * 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 <graaffatcolmingov@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@smarks.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.richter@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 ```GETResponse.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

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]

1.333 go-md2man 2.0.0-20190314233015-f79a8a8ca69d
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1.336 bolt 1.3.1

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1.337 ntp 4.2.8p10

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Maintenance

David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36

Wolfgang Moeller <moeller@gwdg1.dnet.gwdg.de> VMS port

Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility

Tom Moore <tmoore@fievel.daytonoh.nrc.com> i386 svr4 port

Kamal A Mostafa <kamal@whence.com> SCO OpenServer port

Derek Mulcahy <derek@toybox.demon.co.uk> and Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver

Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance

Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling

Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port

Wilfredo Sánchez <wsanchez@apple.com> added support for NetInfo

Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules

Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory

Ray Schnitzler <schnittz@unipress.com> Unixware1 port

Michael Shields <shields@tembel.org> USNO clock driver

Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver

Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)

Kenneth Stone <ken@sdd.hp.com> HP-UX port

Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support

Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver

Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues

Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support

Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver

Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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1.344 keybase-go-crypto 0.0.0-20190403132359-d65b6b94177f

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FIRST NOTE:
This file contains some details about the copyright history of contributions to the UnZip project. Additionally, it summarises some exceptions to the general BSD-like copyright found in LICENSE that covers our generic code and most of the system specific ports. Please read LICENSE first to find out what is allowed to do with Info-ZIP's UnZip code.

There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware): Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port). These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding _in an apparatus that performs LZW encoding_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future
The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); re-placement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

* MoreFiles
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* ----------------------------------------------------------------------
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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten
and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

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* from Steve P. Miller.

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The remaining code was written by many people associated with the
Info-ZIP group, with large contributions from (but not limited to):
Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
others. See the file CONTRIBS in the source distribution for a much
more complete list of contributors.
The decompression core code for the deflate method (inflate.[ch],
eplode.c) was originally written by Mark Adler who submitted it
as public domain code.

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1.350 go-testing-interface 1.0.0

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1.351 libnl3 3.2.25

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**1.352 protobuf-c 1.3.3**

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1.353 go 1.14.2

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1.364 libvirt 1.3.5

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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.

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+----------------+--------------+------------+------------+-----------------+
| Release        | Derived from | Year       | Owner      | GPL compatible? |
+----------------+--------------+------------+------------+-----------------+
| 0.9.0 thru 1.2 | n/a          | 1991-1995  | CWI        | yes             |
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+----------------+--------------+------------+------------+-----------------+
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+----------------+--------------+------------+------------+-----------------+
| 1.6.1          | 1.6          | 2001       | CNRI       | no              |
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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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Any feedback is very welcome.
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------

The `mod:` `socket` module uses the functions, :func:`getaddrinfo`, and :func:`getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/.

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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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  version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls
--------------------------

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--------

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
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djb (supercop/crypto_auth/siphash24/little2)
Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
-------------

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libffi
-----

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zlib
----

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jloup@gzip.org          madler@alumni.caltech.edu

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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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
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All Python releases are Open Source (see http://www.opensource.org for
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<table>
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<th>Year</th>
<th>Owner</th>
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1.6.1  1.6  2001  CNRI  yes (2)
2.1  2.0+1.6.1  2001  PSF  no
2.0.1  2.0+1.6.1  2001  PSF  yes
2.1.1  2.1+2.0.1  2001  PSF  yes
2.1.2  2.1.1  2002  PSF  yes
2.1.3  2.1.2  2002  PSF  yes
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1.380 zlib 1.2.3

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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1.381 xz 5.1.3alpha

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1.383 azure-pipeline-go 0.2.3
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1.384 zmq 4.2.5

1.384.1 Available under license:

wepoll - epoll for Windows
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1.385 tdb 1.43.5

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

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

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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 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 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

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Theodore Ts'o
23-June-2007

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1.389 mergo 0.2.2
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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
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1.390 archiver 3.1.1+incompatible

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Protocol Buffers for Go with Gadgets

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

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---

layout: "api"
page_title: "/sys/license - HTTP API"
sidebar_title: "<code>/sys/license</code>"
sidebar_current: "api-http-system-license"
description: |
The `/sys/license` endpoint is used to view and update the license used in
Vault.

---

# `/sys/license`
-> **Enterprise Only** These endpoints require Vault Enterprise.

The `/sys/license` endpoint is used to view and update the license used in Vault.

## Read License

This endpoint returns information about the currently installed license.

<table>
<thead>
<tr>
<th align="left">Method</th>
<th align="left">Path</th>
</tr>
</thead>
<tbody>
<tr>
<td align="left"><code>GET</code></td>
<td align="left"><code>/sys/license</code></td>
</tr>
</tbody>
</table>

### Sample Request

```bash
$ curl \
  --header "X-Vault-Token: ..." \
  http://127.0.0.1:8200/v1/sys/license \
```

### Sample Response

```json
{
  "data": {
    "expiration_time": "2017-11-14T16:34:36.546753-05:00",
    "features": [
      "UI",
      "HSM",
      "Performance Replication",
      "DR Replication"
    ],
    "license_id": "temporary",
    "start_time": "2017-11-14T16:04:36.546753-05:00"
  },
  "warnings": [
    "time left on license is 29m33s"
  ]
}
```

## Install License

This endpoint is used to install a license into Vault.

<table>
<thead>
<tr>
<th align="left">Method</th>
<th align="left">Path</th>
</tr>
</thead>
</table>
### Parameters

- `text` *(string: <required>)* The text of the license.

*DR Secondary Specific Parameters*

- `dr_operation_token` *(string: <required>)* - DR operation token used to authorize this request.

### Sample Payload

```json
{
  "text": "01ABCDEFG..."
}
```

### Sample Request

```
$ curl
  --header "X-Vault-Token: ..."
  --request PUT
  --data @payload.json
  http://127.0.0.1:8200/v1/sys/license
```

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<span class="title is-5">Features</span>

{#
featuresInfo as [info]
#

{{#each featuresInfo as |info|}}

{{#info-table-row label=info.name value=(if info.active "Active" "Not Active") data-test-feature-row="data-test-feature-row"}}

{{#if info.active}}

<Icon @glyph="check-circle-outline" @size="l" class="icon-true" aria-hidden="true" />
<span data-test-feature-status>Active {{#if info.count}}&mdash;{{info.count}} standby nodes allotted{{/if}}</span>

{{else}}

<Icon @glyph="cancel-circle-outline" @size="l" class="icon-false" aria-hidden="true" />
<span data-test-feature-status>Not Active</span>

{{/if}}

{{/info-table-row}}

{{/each}}

</div>

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package github

import (    "context"    "fmt"
)

// LicensesService handles communication with the license related
// methods of the GitHub API.
// GitHub API docs: https://developer.github.com/v3/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
    Name *string `json:"name,omitempty"`
    Path *string `json:"path,omitempty"`
    SHA   *string `json:"sha,omitempty"`
    Size  *int    `json:"size,omitempty"`
    URL   *string `json:"url,omitempty"`
    HTMLURL   *string `json:"html_url,omitempty"`
}
func (l RepositoryLicense) String() string {
    return Stringify(l)
}

// License represents an open source license.
type License struct {
    Key   *string `json:"key,omitempty"
    Name  *string `json:"name,omitempty"
    URL   *string `json:"url,omitempty"
    SPDXID         *string   `json:"spdx_id,omitempty"
    HTMLURL        *string   `json:"html_url,omitempty"
    Featured       *bool     `json:"featured,omitempty"
    Description    *string   `json:"description,omitempty"
    Implementation *string   `json:"implementation,omitempty"
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    Conditions     *[]string `json:"conditions,omitempty"
    Limitations    *[]string `json:"limitations,omitempty"
    Body           *string   `json:"body,omitemputy"
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
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func (s *LicensesService) List(ctx context.Context) ([]*License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    var licenses []License
    resp, err := s.client.Do(ctx, req, &licenses)
    if err != nil {
        return nil, resp, err
    }
return licenses, resp, nil
}

// Get extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)
    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }

    license := new(License)
    resp, err := s.client.Do(ctx, req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, nil
}

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This Go package is a modified version of

XZ Embedded <http://tukaani.org/xz/embedded.html>

The contents of the testdata directory are modified versions of
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// Features is a bitmask of feature flags
type Features uint

cst FeatureNone Features = 0

func (f Features) HasFeature(flag Features) bool {
return false
}

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1.401 curl 7.30.0

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zlib  http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

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fbopenssl

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libssh2 http://www.libssh2.org/

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[2] = http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs details on how to write such an exception to the GPL

1.402 oklog-run 1.0.0

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Key Dates
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* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0 to Version 1.1 to cover open source documentation associated with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

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Proposals (RFCs):
https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

TianoCore Bugzilla:
https://bugzilla.tianocore.org/show_bug.cgi?id=629

* April 9, 2019

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=================================
= Change Description / Commit Message / Patch Email =
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Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "Repository" is the identifier of the repository the patch applies. This identifier should only be provided for repositories other than 'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is the identifier of the branch the patch applies. This identifier should only be provided for branches other than 'edk2/master'. For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or 'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or 'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
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Contributions.txt: TianoCore Contribution Agreement 1.0

= Code Contributions =

To make a contribution to a TianoCore project, follow these steps.
1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the
contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version. For example: Contributed-under: TianoCore Contribution Agreement 1.0

The "TianoCore Contribution Agreement" is included below in this document.

4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.

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=====================================================  
= Change Description / Commit Message / Patch Email =  
=====================================================  

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part of the commit message can be added here.
Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
* "Signed-off-by" is the contributor's signature identifying them by their real/legal name and their email address.

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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abstract: 'Build and install Perl modules'
The "Artistic License"

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appropriate parts of the General Public License. Of course, the
commands you use may be called something other than `show w' and `show
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#!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 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;
}
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1.411 nettle 3.2

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1.412 jcmtturner-goidentity 6.0.1

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1.414 x-crypto 0.0.0-20200930160638-afb6bcd081ae

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*******************
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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 https://www.cwi.nl/) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (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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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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Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and :func:`getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/. ::

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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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--------

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Original location:
https://github.com/majek/cshephash/

Solution inspired by code from:
  Samuel Neves (supercop/crypto_auth/siphash24/little)
  djb (supercop/crypto_auth/siphash24/little2)
  Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
----------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and
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zlib
----

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Jean-loup Gailly  Mark Adler
jloup@gzip.org     madler@alumni.caltech.edu

cfuhash
-------

The implementation of the hash table used by the :mod:`tracemalloc` is based on the cfuhash project:

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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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* 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.

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  <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:template>
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#* STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.438 hashicorp-mdns 1.0.1

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1.439 grpc-go 1.4.0+git0+777daa17ff

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1.440 tar 1.29

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1.448 iputils 20121221

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1.449 x-net 0.0.0-20201110031124-69a78807bb2b

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1.450 pyyaml 3.13

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1.452 json-iterator-go 1.1.10

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1.453 ply 3.11

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# PLY (Python Lex-Yacc) Version 3.11


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Introduction
============

PLY is a 100% Python implementation of the common parsing tools lex
and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc.
  If you know how to use these tools in C, you will find PLY
to be similar.

- PLY provides *very* extensive error reporting and diagnostic
  information to assist in parser construction. The original
  implementation was developed for instructional purposes. As
  a result, the system tries to identify the most common types
  of errors made by novice users.

- PLY provides full support for empty productions, error recovery,
  precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient,
  better suited to large grammars, and which has a number of nice
  properties when dealing with syntax errors and other parsing problems.
  Currently, PLY builds its parsing tables using the LALR(1)
  algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers.
  This greatly simplifies the task of parser construction since it reduces
  the number of files and eliminates the need to run a separate lex/yacc
tool before running your program.

- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

How to Use
==========

PLY consists of two files: lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

    import ply.lex as lex
    import ply.yacc as yacc

Alternatively, you can copy just the files lex.py and yacc.py individually and use them as modules. For example:

    import lex
    import yacc

The file setup.py can be used to install ply using distutils.

The file doc/ply.html contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

Requirements
=============

PLY requires the use of Python 2.6 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

Resources
==========

More information about PLY can be obtained on the PLY webpage at:
For a detailed overview of parsing theory, consult the excellent
book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and
Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown
may also be useful.

The GitHub page for PLY can be found at:

https://github.com/dabeaz/ply

An old and relatively inactive discussion group for PLY is found at:

http://groups.google.com/group/ply-hack

Acknowledgments
===============
A special thanks is in order for all of the students in CS326 who
suffered through about 25 different versions of these tools :-).  

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x.
Andrew Waters and Markus Schoepflin were instrumental in reporting bugs
and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0
========================
PLY-3.0 the first PLY release to support Python 3. However, backwards
compatibility with Python 2.6 is still preserved. PLY provides dual
Python 2/3 compatibility by restricting its implementation to a common
subset of basic language features. You should not convert PLY using
2to3--it is not necessary and may in fact break the implementation.

Example
=======

Here is a simple example showing a PLY implementation of a calculator
with variables.

    # calc.py
    #
    # A simple calculator with variables.
    # -----------------------------------------------

    tokens = ( 'NAME', 'NUMBER',


    'PLUS','MINUS','TIMES','DIVIDE','EQUALS',
    'LPAREN','RPAREN',
    )

# Tokens

t_PLUS    = r'\+'
t_MINUS   = r'-'
t_TIMES   = r'\*'
t_DIVIDE  = r'/'
t_EQUALS  = r'='
t_LPAREN  = r'('
t_RPAREN  = r')'
t_NAME    = r'\[a-zA-Z_\][a-zA-Z0-9_]\*'

def t_NUMBER(t):
    r'\d+'
    t.value = int(t.value)
    return t

# Ignored characters

t_ignore = " \t"

def t_newline(t):
    r'\n+'
    t.lexer.lineno += t.value.count("\n")

def t_error(t):
    print("Illegal character '%s'" % t.value[0])
    t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lex()

# Precedence rules for the arithmetic operators
precedence = (
    ('left','PLUS','MINUS'),
    ('left','TIMES','DIVIDE'),
    ('right','UMINUS'),
)

# dictionary of names (for storing variables)
names = { }

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]
def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    '''expression : expression PLUS expression
                  | expression MINUS expression
                  | expression TIMES expression
                  | expression DIVIDE expression'''

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN expression RPAREN'
    p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name '%s'" % p[1])
        p[0] = 0

def p_error(p):
    print("Syntax error at '%s'" % p.value)

import ply.yacc as yacc
yacc.yacc()

while True:
    try:
        s = raw_input('calc > ')  # use input() on Python 3
        except EOFError:
            break
        yacc.parse(s)
Bug Reports and Patches

My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page at https://github.com/dabeaz/ply to submit issues and pull requests. To contact me about bugs and/or new features, please send email to dave@dabeaz.com.

-- Dave

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1.455 go-shellwords 1.0.0

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1.457 libgcrypt 1.8.0

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1.465 bridgeutils 1.5

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# Contributions to the urllib3 project

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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/@WBRSRIBZDlhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

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* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
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  * 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 Figovskiy <boris.figovskiy@ravelosystems.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 <tomecek@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.skytt@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

* Jess 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.richter@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 Jess Shapiro)** <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

* **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 `urllib2.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
1.467 grep 2.25

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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
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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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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
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that the user who changes the contents of definitions files in the
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to use the modified definitions.)

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,
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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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
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e) Verify that the user has already received a copy of these
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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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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 conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

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Julian Seward, Cambridge, UK.
jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001

/*
minibz2
libbz2.dll test program.
by Yoshioka Tsuneo (tsuneo@rr.iiij4u.or.jp)
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usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]
*/
1.470 kubernetes-client v12.0

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1.471 html5lib 1.0b10

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1.472 binutils 2.24

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

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, Piet
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Espie, Marc
Farrell, Brian
Fobes, Steve
Fryinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Sanchez, 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
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chernoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frédéric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeici, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krnzmar, Tomislav
Marchal, Frédéric
Margeviuus, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
1.477 gofuzz v1.2.0

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1.478 go-oidc 2.2.1+incompatible

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1.479 consul 1.4.0

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1.480 x-text 0.3.3

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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
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

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

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

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

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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END OF TERMS AND CONDITIONS

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convey the exclusion of warranty; and each file should have at least the
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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.

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:

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!

1.483 gophercloud 0.1.0
1.483.1 Available under license :

```go
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"
    }
    return s.Links.Next, nil
}
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
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 [#723](https://github.com/gophercloud/gophercloud/issues/723).

**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](step-04-acceptance-testing.md) 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:

```shell
$ 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:

```
```shell
$ 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](https://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 code reviewer see only the changes that were made.

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"  
    "github.com/gophercloud/gophercloud/testhelper"
)

// 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 a 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 RESOURCE

import {
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
}

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type 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) {
    _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
    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 {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    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 {
}

// ToResourceUpdateMap 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
    }
    _, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    return
}

package testing

import (
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "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)
}

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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
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 start a discussion about whether or not the feature should be included in Gophercloud. We don't want to 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:
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
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
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"`
}
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
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).

---

1.484 go-criu 4.1.0

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1.495 dc 1.06

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    Entity

    // no documentation yet
    Account *Account `json:"account,omitempty" xmlrpc:"account,omitempty"

    // no documentation yet
    AccountId *int `json:"accountId,omitempty" xmlrpc:"accountId,omitempty"

    // no documentation yet
    EnabledFlag *bool `json:"enabledFlag,omitempty" xmlrpc:"enabledFlag,omitempty"

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"

    // no documentation yet
    Type *Legal_RegulatedWorkload_Type `json:"type,omitempty" xmlrpc:"type,omitempty"

    // no documentation yet
    WorkloadTypeId *int `json:"workloadTypeId,omitempty" xmlrpc:"workloadTypeId,omitempty"
}

// no documentation yet
type Legal_RegulatedWorkload_Type struct {
    Entity

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"

    // no documentation yet
    KeyName *string `json:"keyName,omitempty" xmlrpc:"keyName,omitempty"

    // no documentation yet
    Name *string `json:"name,omitempty" xmlrpc:"name,omitempty"
}

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* github.com/BurntSushi/toml - https://github.com/BurntSushi/toml

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* golang.org/x/tools/go/analysis - https://github.com/golang/tools
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Protocol Buffers for Go with Gadgets

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

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// +build go1.10

package pq

import ( 
    "context" 
    "database/sql/driver" 
)

// NoticeHandler returns the notice handler on the given connection, if any. A runtime panic occurs if c is not a pq connection. This is rarely used // directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead. func NoticeHandler(c driver.Conn) func(*Error) { return c.(*conn).noticeHandler }

// SetNoticeHandler sets the given notice handler on the given connection. A runtime panic occurs if c is not a pq connection. A nil handler may be used // to unset it. This is rarely used directly, use ConnectorNoticeHandler and // ConnectorWithNoticeHandler instead. // // Note: Notice handlers are executed synchronously by pq meaning commands // won't continue to be processed until the handler returns. func SetNoticeHandler(c driver.Conn, handler func(*Error)) { c.(*conn).noticeHandler = handler }
// NoticeHandlerConnector wraps a regular connector and sets a notice handler
// on it.

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
// on it.
type NoticeHandlerConnector struct {
    driver.Connector
    noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        c.noticeHandler = handler
        return c
    }
    return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}

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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 license is valid for
Product string "json:"product"

// License Specific Flags
Flags map[string]interface{} "json:"flags"

// 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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>>> appengine-ca59ef35f409df61fa4a5f8290ff289b37eccfb8
>>> aws_aws-sdk-go_aws-master
>>> coreos_etcd_client-781196fa8746d6c34ace2a62898051af6dc46002
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>>> coreos_etcd_version-781196fa8746d6c43ace2a62898051af6dc46002
>>> coreos_go-semver_semver-5e3acb5bb66c8c43deb4842615c409febeb1f6b1e
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>>> docker_go-events-aae2eb613fbbfddbe055a798e33e271cf8d3e6a
>>> docker_libnetwork-fd27f22aa353ed57f8868f8919d05b744f31fd
>>> docker_libtrust-9c6ba23174f6905c68a4eb3694a130610adc62a
>>> go-openapi_analysis-d5a75bf7d751ca3f11ad5d93cf9740f2c3f6a47
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>>> go_internal-cd0da878e66901060d2e7403ab621929b3e387e0
>>> golang_log-23df4e6c14b4da8ac2ed8007337bc5eb5007998
>>> golang_groupcache_lru-72d04f9cded73d81200a4af150eae553639a
>>> govmoni-v0.17.1

>>> maruel_panicparse_stack-25bcac0d793cf4109483505a0d66e066a3a0a80
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>>> syncutil_singleflight-7ce08ca145db6e6a127c447b80ce7914f3e4f9
>>> vdemeester_shakers-24df7fd6a71a5d9ebe7390e4ab66b7ee9e1b3
>>> vishvananda_netlink-482f7a5b758235321878cb6e5904b6b6f3457
>>> vishvananda_nets-604eaf189ee867d8c147fae28def2394d878d25
>>> yaml_v2-4e7c8e975fe7c825c6d1466ec42eb594d1d6f3aba6

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>>> agl_ed25519-master
>>> airbrake_gobrake_v2-c9d51adc624b5cc4c1bf8dece730a094878ffe2d
>>> api_compute_v1-dfa61ae24628a06502b9c2805d98357e893999b5
>>> api_gensupport-dfa61ae24628a06502b9c2805d98357e893999b5
>>> api_googleapi-dfa61ae24628a06502b9c2805d98357e893999b5
>>> armon_go-metrics-f303b03b91d770a11a39677f1d3b55a400b2cbcb
>>> armon_go-radix-4239b777093bc5d143bc7b4736304ce8d8db6f0f2
>>> asaskevich_govalidator-9699ab6638be2e023d3fe8b999ecf67665395ce96
>>> azure_go-ansiterm-70b2e90b26017e82f9fe1bdc7c1f7600c11858dbe
>>> boldb_holt-b51f4920f8fe0af6f857e5a1c77f4385a59ae9f
>>> cenkalti_backoff-b0f2fbbce11d7eae6b7f282ef17711b0e2f6e5ef3
>>> client9_misspell-9a1fc2456ac9e8c9b4ce9d005b6e7adac0d357f
>>> codegangsta/inject-33e0aa1cb7c019ccc3fbe049a8262a6403d30504
>>> codegangsta_eli-master
>>> cpuguyy83_go-md2man_md2man-a654d2d2de4d5f7c748686fafa9b202a3c8be315aaa
>>> d2g_dhcp4-f0e4d29ff0231dce36e250b2ed9ff08412584bca
>>> pkg_profile-8a0808a6976b79da66deacfe508b26d398a69518f
>>> perkitbio-purell-d69616f51c5d7c7541d6a380847a152dfc2a749d
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>>> ryanuber_go-glob-256d44b735e061061cf46c809487313db0065
>>> sirupsec_logrus-d2649297076ca5d33192d29799e34b5c4782eb
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>>> smartystreetsAssertions internal_oglematchers-287b4346dc4e71a038c346375a9d572453bc469b
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>>> x_tools_exports-381149a2d6e5df319cccf04bffec71e03a78b868
>>> zenazn/goji-c05078ca81941f8e801bba3ddc06b86b7fdec893
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>>> d2g_dhcp4client-master
>>> hashicorp_go-cleanhttp-875fb671b3ddc66f8e2f0acc33829c8cb989a38d
>>> hashicorp_memberlist-cef12ad58224d55cf26ca9e3d239e2fcb3432a2

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>>> photon-release-2.0-2.ph2

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>>> curl-7.59.0-4.ph2
>>> expat-2.2.4-1.ph2
>>> iputils-20151218-4.ph2
>>> krb5-1.16-2.ph2
>>> libarchive-3.3.1-2.ph2
>>> libcap-2.25-7.ph2
>>> libdb-5.3.28-1.ph2
>>> libffi-3.2.1-5.ph2
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>>> libtirpc-1.0.1-8.ph2
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>>> ncurses-6.0-14.ph2
>>> openssh-7.5p1-11.ph2
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>>> pcre-8.41-1.ph2
>>> popt-1.16-5.ph2
>>> shadow-4.2.1-16.ph2
>>> sqlite-3.22.0-3.ph2
>>> sudo-1.8.20p2-5.ph2
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>>> gcc-6.3.0-7.ph2
>>> iproute2-4.10.0-3.ph2
>>> iptables-1.6.1-4.ph2
>>> linux-exx-4.9.154-1.ph2
>>> logrotate-3.11.0-3.ph2
>>> mingetty-1.08-2.ph2
>>> net-tools-1.60-11.ph2
>>> procps-ng-3.3.15-2.ph2
>>> rpm-4.13.0.2-1.ph2
>>> tdnf-1.2.3-6.ph2
>>> util-linux-2.32-1.ph2

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>>> coreutils-8.27-3.ph2
>>> elfutils-0.169-3.ph2
>>> grep-3.0-4.ph2
>>> gzip-1.8-1.ph2
>>> haveged-1.9.1-4.ph2
>>> readline-7.0-2.ph2

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>>> glibc-2.26-13.ph2
>>> hawkey-2017.1-6.ph2
>>> kmod-24-3.ph2
>>> libgcrypt-1.8.1-2.ph2
>>> libgpg-error-1.27-1.ph2
>>> systemd-233-18.ph2

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>>> gmp-6.1.2-2.ph2

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>>> ca-certificates-20180919-1.ph2
>>> nspr-4.15-1.ph2
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Support for streaming Protocol Buffer messages for the Go language (golang).
https://github.com/matttproud/golang_protobuf_extensions
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>>> go_internal-cd0da878c66091060d2e7403abd62192b3e387e0

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Go support for leveled logs, analogous to https://code.google.com/p/google-glog

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>>> gizak_termui-798ff9cbebe4073ef1f88e6069ca4a2c6aa6676b

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>>> godbus.dbus-230e4b23db2fd81c53eaa0073f76659d4849ce51

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>>> gogo_protobuf_gogoprotoc-6a92c871a8f5333cf106b2cddf937567208d8bb2b7

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>>> tomb_v1-dd632973f1e7218eb1089048e0798ec9ae7dceb8

tomb - support for clean goroutine termination in Go.

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It was heavily inspired by the go blowfish package.

>>> x_crypto_nacl_secretbox-728b753d0135da6801d45a38e6f43ff555779e5c2

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>>> x_crypto_poly1305-728b753d0135da6801d45a38e6f43ff55779c5c2
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+build appengine

Package short implements a simple URL shortener, serving an administrative interface at /s and shortened urls from /s/key.
It is designed to run only on the instance of godoc that serves golang.org.

package short

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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
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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slave/kpropd_rpc.c
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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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chkconfig: 2345 11 89
description: sets up CBQ-based traffic control

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IPv6 Hop Limit Target module
Maciej Soltysiak <solt@dns.toxicfilms.tv>
Based on HW's ttl target
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SYN signatures. Those signatures work for SYN packets only (duh!).

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This is generic C code to do efficient, alignment-aware memcpy.

It is based on demo code originally Copyright 2001 by Intel Corp, taken from http://www.embedded.com/showArticle.jhtml?articleID=19205567

Attempts were made, unsuccessfully, to contact the original author of this code (Michael Morrow, Intel). Below is the original copyright notice.

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This code offers a very basic support for this EISA bus present in the SGI Indigo-2. It currently only supports PIO (forget about DMA for the time being). This is enough for a low-end ethernet card, but forget about your favorite SCSI card...

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Written by Ian Lance Taylor, Cygnus Support

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A more complete resource is the third edition of "Linux Device Drivers" by Jonathan Corbet, Alessandro Rubini, and Greg Kroah-Hartman.
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Please send questions/comments/patches about Linux PCI API to the "Linux PCI" <linux-pci@atrey.karlin.mff.cuni.cz> mailing list.

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line - read one line


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2.32\misc-utils\uuidparse.c

uuidparse.c --- Interpret uuid encoded information. This program
violates the UUID abstraction barrier by reaching into the
guts of a UUID.

Based on libuuid/src/uuid_time.c
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From Simon Josefsson
-- derivated from coreutils m4/warnings.m4

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setpwnam.c -- edit an entry in a password database.
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Edited 11/10/96 (DD/MM/YY ;-) by Nicolai Langfeldt (janl@math.uio.no) to read /etc/passwd directly so that passwd, chsh and chfn can work on machines that run NIS (previously YP). Changes will not be made to usernames starting with +.

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Usage:
1) get a struct passwd from getpwnam().
You should assume a struct passwd has an infinite number of fields, so you should not try to create one from scratch.
2) edit the fields you want to edit.
3) call setpwnam() with the edited struct passwd.

A _normal user_ program should never directly manipulate etc/passwd but /use getpwnam() and (family, as well as) setpwnam().

But, setpwnam was made to _edit_ the password file. For use by chfn, chsh and passwd. _I_ _HAVE_ to read and write /etc/passwd directly. Let those who say nay be forever silent and think about how getpwnam (and family) works on a machine running YP.

Added checks for failure of malloc() and removed error reporting to stderr, this is a library function and should not print on the screen, but return appropriate error codes.
27-Jan-97 - poe@daimi.aau.dk

Thanks to "two guys named Ian".

$Author: poer $
$Revision: 1.13 $
$Date: 1997/06/23 08:26:29 $
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Python bindings for the libmount library.

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Bison implementation for Yacc-like parsers in C


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>>> bash-4.4.12-3.ph2

error.c -- Functions for handling errors.

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A Bison parser, made by GNU Bison 3.0.4.

Bison interface for Yacc-like parsers in C


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/ Bison implementation for Yacc-like parsers in C


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(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library alloca function, which is used to allocate space off the run-time stack so that it is automatically reclaimed upon procedure exit, was inspired by discussions with J. Q. Johnson of Cornell. J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

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alloca.c -- allocate automatically reclaimed memory
(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library alloca function, which is used to allocate space off the run-time stack so that it is automatically reclaimed upon procedure exit, was inspired by discussions with J. Q. Johnson of Cornell. J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

As a special case, alloca(0) reclaims storage without allocating any. It is a good idea to use alloca(0) in your main control loop, etc. to force garbage collection.

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Markus Kuhn -- 2007-05-26 (Unicode 5.0)

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Hash DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
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with and without prediction resistance

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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.

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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.

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Version 2.1, February 1999

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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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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
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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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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
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derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
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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
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functions (ten lines or less in length), then the use of the object
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Version 3, 29 June 2007

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The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

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------------------- SECTION 21: SIL Open Font License, V1.1 -------------------

SIL OPEN FONT LICENSE

Version 1.1 - 26 February 2007
PREAMBLE
The goals of the Open Font License (OFL) are to stimulate worldwide
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efforts of academic and linguistic communities, and to provide a free and
open framework in which fonts may be shared and improved in partnership
with others.

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(LPPL) Version 1.3c 2008-05-04
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============

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

The Work has the status `author-maintained' if the Copyright Holder explicitly and prominently states near the primary copyright notice in the Work that the Work can only be maintained by the Copyright Holder or simply that it is `author-maintained'.

The Work has the status `maintained' if there is a Current Maintainer who has indicated in the Work that they are willing to receive error reports for the Work (for example, by supplying a valid e-mail address). It is not required for the Current Maintainer to acknowledge or act upon these error reports.

The Work changes from status `maintained' to `unmaintained' if there is no Current Maintainer, or the person stated to be Current Maintainer of the work cannot be reached through the indicated means of communication for a period of six months, and there are no other significant signs of active maintenance.

You can become the Current Maintainer of the Work by agreement with any existing Current Maintainer to take over this role.

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2. If this search is successful, then enquire whether the Work is still maintained.

   a. If it is being maintained, then ask the Current Maintainer to update their communication data within one month.

   b. If the search is unsuccessful or no action to resume active maintenance is taken by the Current Maintainer, then announce within the pertinent community your intention to take over maintenance. (If the Work is a LaTeX work, this could be done, for example, by posting to comp.text.tex.)

3a. If the Current Maintainer is reachable and agrees to pass maintenance of the Work to you, then this takes effect immediately upon announcement.

b. If the Current Maintainer is not reachable and the Copyright Holder agrees that maintenance of the Work be passed to you, then this takes effect immediately upon announcement.

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5. If the previously unreachable Current Maintainer becomes reachable once more within three months of a change completed under the terms of 3b) or 4), then that Current Maintainer must become or remain the Current Maintainer upon request provided they then update their communication data within one month.

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This work has the LPPL maintenance status "maintained".

The Current Maintainer of this work is M. Y. Name.

This work consists of the files pig.dtx and pig.ins
and the derived file pig.sty.

Given such a notice and statement in a file, the conditions given in this license document would apply, with the 'Work' referring to the three files `pig.dtx', `pig.ins', and `pig.sty' (the last being generated from `pig.dtx' using `pig.ins'), the 'Base Interpreter' referring to any 'LaTeX-Format', and both 'Copyright Holder' and 'Current Maintainer' referring to the person 'M. Y. Name'.

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

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

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```
This work consists of all files listed in manifest.txt.
```

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mgo - MongoDB driver for Go

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BSON library for Go

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<MessageError @model={{model}} />

{{#if isTemporary}}
<section class="box is-sideless is-fullwidth">
  <AlertBanner
    @type="warning"
    @message="Your temporary license expires in {{date-from-now expirationTime}} and your vault will seal. Please enter a valid license below."
    @class="license-warning"
    data-test-cluster-status
    data-test-warning-text
  />
  <span class="title is-5" data-test-temp-license>Temporary license</span>
</section>

{{else}}
<section class="box is-sideless is-fullwidth">
  <span class="title is-5">Details</span>
  {{#if showForm}}
    <form {{action "saveModel" text on="submit" }}
      <div class="field">
        <label for="license-id" class="is-label">License</label>
        <div class="control">
          {{input id="license-id" value=text autocomplete="off" class="input" data-test-text-input="data-test-text-input"}}
        </div>
      </div>
      <div class="field is-grouped">
        <div class="control">
          <button type="submit" class="button is-primary" data-test-save-button>Save</button>
        </div>
        <div class="control">
          <button type="button" {{action "toggleForm"}} class="button" data-test-cancel-button>Cancel</button>
        </div>
      </div>
    </form>
  {{/if}}
</section>
{{/if}}
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# `/sys/license`

~> **Enterprise Only** These endpoints require Vault Enterprise.

The `'/sys/license` endpoint is used to view and update the license used in Vault.

## Read License

This endpoint returns information about the currently installed license.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Sample Request
```
$ curl \
   --header "X-Vault-Token: ..." \
   http://127.0.0.1:8200/v1/sys/license
```

### Sample Response
```
{
   "data": {
      "expiration_time": "2017-11-14T16:34:36.546753-05:00",
      "features": ["UI", "HSM", "Performance Replication", "DR Replication"],
      "license_id": "temporary",
      "start_time": "2017-11-14T16:04:36.546753-05:00"
   },
   "warnings": ["time left on license is 29m33s"]
}
```

## Install License
This endpoint is used to install a license into Vault.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>PUT</code></td>
<td><code>/sys/license</code></td>
</tr>
</tbody>
</table>

### Parameters
- `text` *(string: <required>)* The text of the license.

_**DR Secondary Specific Parameters**_

- `dr_operation_token` *(string: <required>)* - DR operation token used to authorize this request.

### Sample Payload
```
{
   "text": "01ABCDEFG..."
}
```
### Sample Request

```shell-session
$ curl \
   --header "X-Vault-Token: ..." \
   --request PUT \
   --data @payload.json \
   http://127.0.0.1:8200/v1/sys/license
```

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   @startTime={{model.startTime}}
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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package github

import (
    "context"
    "fmt"
)

// LicensesService handles communication with the license related
// methods of the GitHub API.
//
// GitHub API docs: https://developer.github.com/v3/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
    Name *string `json:"name,omitempty"`
    Path *string `json:"path,omitempty"
    SHA     *string `json:"sha,omitemempty"
    Size    *int    `json:"size,omitemempty"
URL *string `json:"url,omitempty"`
HTMLURL  *string `json:"html_url,omitempty"`
GitURL   *string `json:"git_url,omitempty"`
DownloadURL *string `json:"download_url,omitempty"`
Type     *string `json:"type,omitempty"`
Content  *string `json:"content,omitempty"`
Encoding *string `json:"encoding,omitempty"`
License  *License `json:"license,omitempty"`

func (l RepositoryLicense) String() string {
    return Stringify(l)
}

// License represents an open source license.
type License struct {
    Key  *string `json:"key,omitempty"`
    Name *string `json:"name,omitempty"`
    URL  *string `json:"url,omitempty"`
    SPDXID         *string   `json:"spdx_id,omitempty"`
    HTMLURL        *string   `json:"html_url,omitempty"`
    Featured       *bool     `json:"featured,omitempty"`
    Description    *string   `json:"description,omitempty"`
    Implementation *string   `json:"implementation,omitempty"`
    Permissions    [[]]string `json:"permissions,omitempty"`
    Conditions     [[]]string `json:"conditions,omitempty"`
    Limitations    [[]]string `json:"limitations,omitempty"`
    Body           *string   `json:"body,omitempty"`
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.

// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List(ctx context.Context) ([][]*License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    var licenses [][]*License
    resp, err := s.client.Do(ctx, req, &licenses)
    if err != nil {
        return nil, resp, err
    }
    return licenses, resp, nil
}
// Get extended metadata for one license.

// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)

    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }

    license := new(License)
    resp, err := s.client.Do(ctx, req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, nil
}

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SAP HANA Database driver for the Go Programming Language
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type Features uint

const FeatureNone Features = 0

func (f Features) HasFeature(flag Features) bool {
    return false
}

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1.507 vaughan0-go-ini 1.0

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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 bug fixes 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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e0cfd64bc267
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---

layout: docs
page_title: Vault Enterprise License
description: An overview of license.
---

# Vault License

Licenses and EULA enhancements have been introduced in Vault 1.8 release. Please refer to the
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The [Install a HashiCorp Enterprise License](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=vault/enterprise) tutorial provides the instruction to load your Vault license.

```release-note:changes
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```
The `/sys/license` endpoint is used to view and update the license used in Vault.

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<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td><code>/sys/license</code></td>
</tr>
</tbody>
</table>
## Sample Request

```shell-session
$ curl \
   --header "X-Vault-Token: ..." \
   http://127.0.0.1:8200/v1/sys/license
```

## Sample Response

```json
{
  "data": {
    "expiration_time": "2017-11-14T16:34:36.546753-05:00",
    "features": ["UI", "HSM", "Performance Replication", "DR Replication"],
    "license_id": "temporary",
    "start_time": "2017-11-14T16:04:36.546753-05:00"
  },
  "warnings": ["time left on license is 29m33s"]
}
```

### Read Signed License

-> This API is deprecated and will be removed in a future version of Vault. Please use [license autoloading](/docs/enterprise/license/autoloading) instead.

This endpoint returns the signed license blob for the currently installed license.

<table>
<thead>
<tr>
<th align="left">Method</th>
<th align="left">Path</th>
</tr>
</thead>
<tbody>
<tr>
<td align="left"><code>GET</code></td>
<td align="left"><code>/sys/license/signed</code></td>
</tr>
</tbody>
</table>

## Sample Request

```shell-session
$ curl \
   --header "X-Vault-Token: ..." \
   http://127.0.0.1:8200/v1/sys/license/signed
```

## Sample Response

```json
{
  "data": {
    "signed": "01ABCDEFG..."
  }
}
## Install License

-> This API is deprecated and will be removed in a future version of Vault. Please use [license autoloading](/docs/enterprise/license/autoloading) instead.

This endpoint is used to install a license into Vault. This will return an error if license autoloading is in use.

<table>
<thead>
<tr>
<th align="left">Method</th>
<th align="left">Path</th>
</tr>
</thead>
<tbody>
<tr>
<td align="left"><code>PUT</code></td>
<td align="left"><code>/sys/license</code></td>
</tr>
</tbody>
</table>

### Parameters

- `text` `(string: <required>)` - The text of the license.

_DR Secondary Specific Parameters_

- `dr_operation_token` `(string: <required>)` - DR operation token used to authorize this request.

Note that this is the legacy mechanism for providing a DR operation token. It is equally valid to provide the DR operation token in the `X-Vault-Token` header, as with a regular vault token.

### Sample Payload

```json
{
  "text": "01ABCDEFG..."
}
```

### Sample Request

```shell-session
$ curl \
   --header "X-Vault-Token: ..." \
   --request PUT \
   --data @payload.json \
   http://127.0.0.1:8200/v1/sys/license
```
This endpoint is used to delete a stored license in Vault. This will return an error unless license autoloading is in use.

```
<table>
<thead>
<tr>
<th align="left">Method</th>
<th align="left">Path</th>
</tr>
</thead>
<tbody>
<tr>
<td align="left"><code>DELETE</code></td>
<td align="left"><code>/sys/license</code></td>
</tr>
</tbody>
</table>
```

### Sample Request

```
```

## License Status

This endpoint returns information about licensing. It returns similar information to a GET of `sys/license`, but whereas that endpoint reports solely on the license Vault is currently using, this one reports on all licensing information the Vault cluster has. See [license autoloading](/docs/enterprise/license/autoloading) for background.

In the response:
* `autoloading_used` will be true if an autoloaded license was provided to the node, false otherwise.
* `autoloading` is the autoloaded license if autoloading_used is true.
* `persisted_autoload` is the autoloaded license the active node last wrote to storage; this is only used to detect inconsistently licensed nodes in the cluster. It cannot be used as a license itself.
* `stored` is the stored license if any, i.e. one written using `PUT sys/license`.

`autoloading`, `persisted_autoload`, and `stored` all have the same structure, which is also the same structure as the top-level `data` returned by `GET sys/license`.

```
<table>
<thead>
<tr>
<th align="left">Method</th>
<th align="left">Path</th>
</tr>
</thead>
<tbody>
<tr>
<td align="left"><code>GET</code></td>
<td align="left"><code>/sys/license/status</code></td>
</tr>
</tbody>
</table>
```

### Sample Request

```
```

---

Open Source Used In IOS XR Software 7.5.2 7062
### Sample Response

```json
{
  "data": {
    "autoloading_used": true,
    "autoloaded": {
      "expiration_time": "2022-05-17T23:59:59.999Z",
      "features": [
        "HSM",
        "Performance Replication",
        "DR Replication",
        "MFA",
        "Sentinel",
        "Seal Wrapping",
        "Control Groups",
        "Performance Standby",
        "Namespaces",
        "KMIP",
        "Entropy Augmentation",
        "Transform Secrets Engine",
        "Lease Count Quotas",
        "Key Management Secrets Engine",
        "Automated Snapshots"
      ],
      "license_id": "060d7820-fa59-f95c-832b-395db0aeb9ba",
      "performance_standby_count": 9999,
      "start_time": "2021-05-17T00:00:00Z"
    },
    "persisted_autoload": {
      "expiration_time": "2022-05-17T23:59:59.999Z",
      "features": [
        "HSM",
        "Performance Replication",
        "DR Replication",
        "MFA",
        "Sentinel",
        "Seal Wrapping",
        "Control Groups",
        "Performance Standby",
        "Namespaces",
        "KMIP",
        "Entropy Augmentation",
        "Transform Secrets Engine",
        "Lease Count Quotas",
        "Key Management Secrets Engine"
      ]
    }
  }
}
```
The "Automated Snapshots"

"license_id": "060d7820-fa59-f95c-832b-395db0aeb9ba",
"performance_standby_count": 9999,
"start_time": "2021-05-17T00:00:00Z"

```
package license

// Features is a bitmask of feature flags
type Features uint

const FeatureNone Features = 0

func (f Features) HasFeature(flag Features) bool {
    return false
}

<LicenseInfo
    @startTime={{model.startTime}}
    @expirationTime={{model.expirationTime}}
    @licenseId={{model.licenseId}}
    @features={{model.features}}
    @autoloaded={{model.autoloaded}}
    @performanceStandbyCount={{model.performanceStandbyCount}}
/>
```

---
layout: docs
page_title: license inspect - Command
description: |
The "license inspect" command describes the contents of a signed license string.
---

# license inspect

The `license inspect` command describes the contents of a signed license string.

## Examples

Describe license in the environment (either VAULT_LICENSE for a raw value or VAULT_LICENSE_PATH for the path to a file containing the value):

```
$ vault license inspect
Source: /Users/ncc/vaults/license
Product: vault
License ID: 060d7820-fa59-f95c-832b-395db0aeb9ba
```
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
Installation ID: *
Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
Start Time: 2021-05-17 00:00:00 +0000 UTC
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC
{"license_id":"060d7820-fa59-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43432927fa03e7","installation_id":"*","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-0517T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{"modules":["multi-dc-scale","governancepolicy","advanced-data-protection"]},"features":["HSM","Performance Replication","DR
Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance
Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key
Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}
License is valid
```
Describe license at given path:
```shell-session
$ vault license inspect ~/vaults/license
Source: /Users/ncc/vaults/license
Product: vault
License ID: 060d7820-fa59-f95c-832b-395db0aeb9ba
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
Installation ID: *
Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
Start Time: 2021-05-17 00:00:00 +0000 UTC
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC
{"license_id":"060d7820-fa59-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43432927fa03e7","installation_id":"*","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-0517T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{"modules":["multi-dc-scale","governancepolicy","advanced-data-protection"]},"features":["HSM","Performance Replication","DR
Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance
Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key
Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}
License is valid
```
## Usage
The following flags are available in addition to the [standard set of
flags](/docs/commands) included on all commands.
### Command Options
- `-installation-id` `(string: "")` - Installation ID to validate the license against

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This FAQ section is for the license changes introduced in Vault Enterprise 1.8. We will no longer support the old license system (`vault write sys/license`), and autoload will be the only way to manage your license.

- [Q: When will these licensing changes be released for Vault?](#q-when-will-these-licensing-changes-be-released-for-vault)
- [Q: Will these license changes impact HCP Vault?](#q-will-these-license-changes-impact-hcp-vault)
- [Q: Do these license changes impact all Vault customers/licenses?](#q-do-these-license-changes-impact-all-vault-customers-licenses)
- [Q: What is the product behavior change introduced by the licensing changes?](#q-what-is-the-product-behavior-change-introduced-by-the-licensing-changes)
- [Q: How will Vault behave at startup when a license expires or terminates?](#q-how-will-vault-behave-at-startup-when-a-license-expires-or-terminates)
- [Q: What is the impact on evaluation licenses due to this change?](#q-what-is-the-impact-on-evaluation-licenses-due-to-this-change)
- [Q: Are there any changes to existing methods for manual license loading (API or CLI)?](#q-are-there-any-changes-to-existing-methods-for-manual-license-loading-api-or-cli)
- [Q: Is there a grace period when evaluation licenses expire?](#q-is-there-a-grace-period-when-evaluation-licenses-expire)
- [Q: Does this affect clients?](#q-does-this-affect-clients)
- [Q: Are the license files locked to a specific cluster?](#q-are-the-license-files-locked-to-a-specific-cluster)
- [Q: Will a EULA check happen every time a Vault restarts?](#q-will-a-eula-check-happen-every-time-a-vault-restarts)
- [Q: What scenarios should a customer plan for due to these license changes?](#q-what-scenarios-should-a-customer-plan-for-due-to-these-license-changes)
- [Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?](#q-what-is-the-migration-path-for-customers-who-want-to-migrate-from-their-existing-license-as-applied-via-the-cli-flow-to-the-license-on-disk-flow)
- [Q: What is the migration path for customers who wish to migrate from their existing perpetually licensed binaries to the license on disk flow (auto-loading)?](#q-what-is-the-migration-path-for-customers-who-wish-to-migrate-from-their-existing-perpetually-licensed-binaries-to-the-license-on-disk-flow-auto-loading)
- [Q: What is the migration path for customers who want to migrate from their existing perpetually licensed binaries to the current license on storage flow?](#q-what-is-the-migration-path-for-customers-who-want-to-migrate-from-their-existing-perpetually-licensed-binaries-to-the-current-license-on-storage-flow)
- [Q: What is the path for customers who want to downgrade/rollback from Vault 1.8 or later (auto-loading) to a pre-Vault 1.8 (license in storage)?](#q-what-is-the-path-for-customers-who-want-to-downgrade-rollback-from-vault-1-8-or-later-auto-loading-to-a-pre-vault-1-8-license-in-storage)
- [Q: Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

### Q: When will these licensing changes be released for Vault?
The licensing and end-user license agreement (EULA) changes will be available with Vault 1.8-RC1 on June 16, 2021. Vault 1.8 is targeted to release on July 28, 2021.

### Q: Will these license changes impact HCP Vault?

No, these changes will not impact HCP Vault.

### Q: Do these license changes impact all Vault customers/licenses?

<table>
<thead>
<tr>
<th>Customer/licenses</th>
<th>Impacted?</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENT binaries (evaluation or non-evaluation downloaded from <a href="https://releases.hashicorp.com/vault/">releases.hashicorp.com</a>)</td>
<td>Yes</td>
</tr>
<tr>
<td>Open-Source (OSS)</td>
<td>No</td>
</tr>
<tr>
<td>Baked-in license binaries (pro/premium)</td>
<td>No</td>
</tr>
</tbody>
</table>

### Q: What is the product behavior change introduced by the licensing changes?

With Vault 1.8, a valid license is required on-disk (auto-loading) or in-storage for Vault to boot up successfully.

- Existing clusters upgrading to Vault 1.8 or later will not be affected. Customers may continue to use an in-storage license for their existing clusters until they decide to move to auto-loading. Please see the question below: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

- When deploying Vault 1.8 or later clusters, please ensure a valid license exists on-disk (auto-loading).

### Q: How will Vault behave at startup when a license expires or terminates?

When a license expires, Vault continues to function until the license terminates. This behavior exists today and remains unchanged in Vault 1.8. The grace period, defined as the time between license expiration and license termination, is 1 day for evaluation licenses (as of 1.8), and ten years for non-evaluation licenses. Customers must install a valid license before the grace period expires. This license can be autoloaded or loaded into storage using existing methods (`/sys/license`) depending on the applicable scenarios as described above.

When license terminates (upon grace period expiry), Vault will seal itself and customers will need a valid license in order to successfully bring-up Vault. If a valid license was not installed after license expiry, customers will need to install one, and this license will need to be auto-loaded.

### Q: What is the impact on evaluation licenses due to this change?

The 6-hour trial period for Enterprise binaries allows these particular binaries to run without a license file and will be removed as of Vault 1.8 and later. This change means that any clusters deployed with Vault 1.8 or later ENT binaries must have a valid license, and the license must be on the disk (auto-loading).

### Q: Are there any changes to existing methods for manual license loading (API or CLI)?

There are no significant changes to the API or CLI license loading with Vault 1.8.
However, the `/sys/license` endpoint is slated for deprecation in a future release. Please see the question: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

### Q: Is there a grace period when evaluation licenses expire?

Evaluation licenses have a 1-day grace period. The grace period is the time until the license expires. Upon expiration, Vault will seal and will require a valid license to unseal and function properly.

### Q: Does this affect clients?

No, there is no impact to the Vault Agent.

### Q: Are the license files locked to a specific cluster?

The changes to licenses apply to all nodes in a cluster. The license files are not locked to a cluster, but are independently applied to the appropriate clusters.

### Q: Will a EULA check happen every time a Vault restarts?

Yes, starting with Vault 1.8, ENT binaries will be subjected to a EULA check. The release of Vault 1.8 introduces the EULA check for evaluation licenses (non-evaluation licenses are evaluated with a EULA check during contractual agreement). Although the agreement to a EULA occurs only once (when the user receives their license), Vault will check for the presence of a valid license every time a node is restarted.

When a customer upgrades existing clusters to Vault 1.8 or later, a valid license must exist to upgrade successfully. This valid license must be in storage or on-disk (auto-loaded). Please see the below question: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

Also, when customers deploy new clusters to Vault 1.8 or later, a valid license must exist to upgrade successfully. This valid license must be on-disk (auto-loaded).

### Q: What scenarios should a customer plan for due to these license changes?

- **New Cluster Deployment**: When a customer deploys new clusters to Vault 1.8 or later, a valid license must exist to successfully deploy. This valid license must be on-disk (auto-loaded).

- **Eventual Migration**: Since in-storage licenses will not be supported forever, migrating to auto-loaded licenses will be required. Please see the below question: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

### Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?

If a Vault 1.7 cluster is upgraded to Vault 1.8 or later and still has a stored license, the operator must migrate using an auto-loaded license.
1. Use the new command `vault license get -signed` to retrieve the license from the storage in their running cluster.
2. Put the license on disk, configure auto-loading (new `license_path` config option, OR new environment variable `VAULT_LICENSE_PATH` OR new environment variable `VAULT_LICENSE` containing the actual license itself).
3. Restart the Vault node.
4. A warning will explain that the license is in storage and using auto-loading.
5. Use the new command `vault delete /sys/license` to fully transition to auto-loading.

### Q: What is the migration path for customers who wish to migrate from their existing perpetually licensed binaries to the license on disk flow (auto-loading)?

A Vault customer who is currently using S3 unlocked binaries, upgrading their clusters to Vault 1.8 or later, and wishes to move to auto-loading, will need a valid enterprise binary version 1.8 or later and a valid license. The steps are the same as in the above question: [What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?](#q-what-is-the-migration-path-for-customers-who-want-to-migrate-from-their-existing-license-as-applied-via-the-cli-flow-to-the-license-on-disk-flow) starting at Step 2.

### Q: What is the migration path for customers who want to migrate from their existing perpetually licensed binaries to the current license on storage flow?

A Vault customer currently using S3 unlocked binaries is upgrading their clusters to a pre-Vault 1.8 version, the customer must retrieve the corresponding enterprise binary and a valid license to load the license in storage (`/sys/license`). Please see the below question: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

### Q: What is the path for customers who want to downgrade/rollback from Vault 1.8 or later (auto-loading) to a pre-Vault 1.8 (license in storage)?

The downgrade procedure remains the same for Vault customers who are currently on Vault 1.8 or later, have a license installed via auto-loading, and would like to downgrade their cluster to a pre-1.8 version that does not have auto-loading support and only supports license in storage. Please refer to the [upgrade procedures](https://learn.hashicorp.com/tutorials/vault/sop-upgrade?in=vault/standard-procedures) that remind the customers that they must take a snapshot before the upgrade. Customers will need to restore their version from the snapshot, apply the pre-1.8 enterprise binary version they wish to roll back, and bring up the clusters.

### Q: Is there a limited time for support of licenses that are in storage?

The support of licenses installed by alternative means often leads to difficulties providing the appropriate support. To provide the support expected by our customers, we plan to scale support for licenses in storage for Vault. With this plan, Vault customers have up to a 1-year migration period, or until the release of Vault 1.11, to migrate their licenses from in-storage to auto-loading. Starting with Vault 1.11, licensing endpoints that are put in storage will be removed, and Vault will no longer check for valid licenses in storage. This change requires that all customers have auto-loaded licenses to upgrade to 1.11(+) successfully.
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Prior to Vault 1.8, Vault Enterprise would be licensed using special binaries that contained embedded licenses, or via a license written into Vault storage using the [PUT sys/license API](/docs/system/license#install-license).

As of Vault 1.8 those options still exist but are deprecated, and the recommended mechanism for managing licenses is called License Autoloading. New clusters are required to use the autoloading method.

License Autoloading can be done using one of these mechanisms, in increasing order of priority (i.e. `VAULT_LICENSE` takes precedence over `VAULT_LICENSE_PATH`, which takes precedence over `license_path` in config.)

* [license_path in config](/docs/configuration#license_path)
* [VAULT_LICENSE_PATH environment variable](/docs/commands#vault_license_path)
* [VAULT_LICENSE environment variable](/docs/commands#vault_license)
Nodes within a cluster should be consistently licensed. All nodes in a cluster should use autoloading, or none should. If autoloading is used, all nodes should use the same license string. Warnings will be written to the log when there are discrepancies.

If autoloading is used, any existing stored license will be ignored. The presence of a stored license in conjunction with an autoloaded license will also result in logged warnings. Once a migration to autoloading is completed, it is recommended to use the [DELETE API](/docs/system/license#delete-license) to remove the stored license.

---

# license get

The `license get` command reports on the license in use. With the `-signed` flag, it will return the actual license string, but only if the license is stored, as opposed to [autoloading](/docs/enterprise/license/autoloading).

## Examples

Describe current license:

```shell-session
$ vault license get
Key                          Value
---                          -----  
expiration_time              2022-05-17T23:59:59.999Z
features                     [HSM Performance Replication DR Replication MFA Sentinel Seal Wrapping Control Groups
Performance Standby Namespaces KMIP Entropy Augmentation Transform Secrets Engine Lease Count Quotas
Key Management Secrets Engine Automated Snapshots]
license_id                   060d7820-fa59-f95c-832b-395db0aeb9ba
performance_standby_count    9999
start_time                   2021-05-17T00:00:00Z
```

Get stored license string:

```shell-session
$ vault license get -signed
02MV4UU43BK5H...
```

Try to get stored license string when using autoloading:
## Usage

The following flags are available in addition to the [standard set of flags](/docs/commands) included on all commands.

### Command Options

- `-signed` `(bool: false)` - Return the signed license string when using a stored license.

```shell-session
$ vault license get -signed
License not found or using a temporary license.
```

## License

```
<PageHeader as |p|
<p.levelLeft>
  <h1 class="title is-3">License</h1>
</p.levelLeft>
</PageHeader>

<section class="box is-sideless is-marginless is-shadowless is-fullwidth">
  <span class="title is-5">Details</span>
  <div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
    <InfoTableRow @label="License ID" @value={{@licenseId}} @data-test-detail-row={{true}} />
    <InfoTableRow @label="Valid from" @value={{date-format @startTime 'MMM dd, yyyy hh:mm:ss a'}} to {{date-format @expirationTime 'MMM dd, yyyy hh:mm:ss a'}} />
    <InfoTableRow @label="License state" @value={{if @autoloaded "Autoloaded" "Stored"}} @data-test-detail-row={{true}}>
      {{#if @autoloaded}}
        Autoloaded
      {{else}}
        Stored
      {{/if}}
      <Icon @glyph="alert-triangle" class="has-text-highlight" />
      <span class="is-size-8">Stored licenses will be deprecated in a future version of Vault. We recommend autoloading your license. Read more <a href="https://www.vaultproject.io/docs/enterprise/license" rel="noreferrer noopener" target="_blank" >here</a>.
      </span>
    </InfoTableRow>
  </div>
</section>

<section class="box is-sideless is-marginless is-shadowless is-fullwidth">
  <span class="title is-5">Features</span>
  <div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
    {{#each this.featuresInfo as |info|}}
      {{if @autoloaded}}
        Autoloaded
      {{else}}
        Stored
      {{/if}}
      <Icon @glyph="alert-triangle" class="has-text-highlight" />
      <span class="is-size-8">Stored licenses will be deprecated in a future version of Vault. We recommend autoloading your license. Read more <a href="https://www.vaultproject.io/docs/enterprise/license" rel="noreferrer noopener" target="_blank" >here</a>.
      </span>
    {{/each}}
  </div>
</section>
```
The "license" command groups subcommands for interacting with Vault licenses.

## Examples

Query current license in use by a node:

```shell-session
$ vault license get
Key        Value
---        -----
expiration_time  2022-05-17T23:59:59.999Z
features       [HSM Performance Replication DR Replication MFA Sentinel Seal Wrapping Control Groups Performance Standby Namespaces KMIP Entropy Augmentation Transform Secrets Engine Lease Count Quotas Key Management Secrets Engine Automated Snapshots]
license_id     060d7820-fa59-f95c-832b-395db0aeb9ba
```
```
performance_standby_count   9999
start_time               2021-05-17T00:00:00Z
```

Query signed license string (only when using a deprecated stored license)

```
```
```

Inspect a signed license string:

```
```
```

License is valid

```

## Usage

```
Usage: vault license <subcommand> [options] [args]
```

Subcommands:

  get       Query Vault's license
  inspect   View the contents of a license string

For more information, examples, and usage about a subcommand, click on the name
of the subcommand in the sidebar.

1.512 decorator 4.0.10

1.512.1 Available under license:

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1.513 selinux 2.6

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1.514 google-uuid 1.1.1
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1.515 colorama 0.3.9

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1.516 bcrypt 3.1.7

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1.517 libcgroup 0.41
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#
io.helidon.config.yaml.internal.YamlFileTypeDetector

Found in path(s):
* /opt/cola/permits/1212207596_1633726302.78/0/helidon-config-yaml-1-2-0-sources-1-jar/META-INF/services/java.nio.file.spi.FileTypeDetector

1.520 cracklib 2.9.5
1.520.1 Available under license :

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL.  It also counts
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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 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 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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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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<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 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
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=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=20
eir applications are also GPL-2 which imo is just wrong. it isn't the place of =a
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...
-----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
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> it was enough to just get it consistent and documented as to what
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clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was
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unless their
applications are also GPL-2 which imo is just wrong. it isn't the
place of a
library to dictact 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 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.
>
> 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
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> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
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> 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

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

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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
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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

1.521 kubernetes-client 0.18.2
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1.522 consul 1.9.4

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Path type

Path type

Path should begin with a '/'

Path Regex should not be blank
<div>
</div>

<fieldset>
<h2>Methods</h2>
<div class="type-toggle">
<span>All methods are applied by default unless specified</span>
</div>
</fieldset>

<fieldset>
<h2>Headers</h2>
</fieldset>
<button data-test-add-header type="button" class="type-submit" disabled={{if (not this.headerForm.isDirty) 'disabled'}} onclick={{action this.headerForm.submit}}>
  Add{{#if (gt (get (changeset-get changeset 'HTTP.Header') 'length') 0)}} another{{/if}} header
</button>
<button type="button" class="type-cancel" onclick={{action this.headerForm.reset}}>
  Cancel
</button>

</fieldset>
</FormGroup>
</div>

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import { Meta, Story, Canvas } from '@storybook/addon-docs/blocks';
import { hbs } from 'ember-cli-htmlbars';

Meta

<Canvas>
<Story name="Basic"
argTypes={
  type:

Open Source Used In IOS XR Software 7.5.2 7164
defaultVal: 'success',
control: {
type: 'select',
options: [
'success',
'warning',
'info',
'highlight',
]
}
}
}

>{(args) => ({
template: hbs' <Notice
 @type={type}
 as |notice|
 <notice.Header>
 <h3>Header</h3>
</notice.Header>
 <notice.Body>
 <p>
  Body
 </p>
</notice.Body>
 <notice.Footer>
 <p>
  Footer
 </p>
</notice.Footer>
</Notice>',
context: args
})
</Story>
</Canvas>
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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)
  return r
_, 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 builtin one if it is still valid.
// If the builtin 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
}
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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@import './skin';
@import './layout';
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@import './layout';
.consul-intention-permission-list > ul > li {
    @extend %list-row-200;
}
.consul-intention-permission-list:not(.readonly) > ul > li {
    @extend %with-composite-row-intent;
}
.consul-intention-permission-list strong {
    @extend %pill-500;
}
.consul-intention-permission-list .intent-allow {
    @extend %pill-allow;
}
.consul-intention-permission-list .intent-deny {
    @extend %pill-deny;
}
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layout: commands
page_title: 'Commands: License'
The license command provides datacenter-level management of the Consul Enterprise license.

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# Consul License

Command: `consul license`

The `license` command provides datacenter-level management of the Consul Enterprise license. This was added in Consul 1.1.0.

If ACLs are enabled then a token with operator privileges may be required in order to use this command. Requests are forwarded internally to the leader if required, so this can be run from any Consul node in a cluster. See the [ACL Guide](https://learn.hashicorp.com/consul/security-networking/production-acls) for more information.

```text
Usage: consul license <subcommand> [options] [args]

This command has subcommands for managing the Consul Enterprise license
Here are some simple examples, and more detailed examples are available in the subcommands or the documentation.

Install a new license from a file:

$ consul license put @consul.license

Install a new license from stdin:

$ consul license put -

Install a new license from a string:

$ consul license put "<license blob>"

Retrieve the current license:

$ consul license get

Reset the current license:

$ consul license reset

For more examples, ask for subcommand help or view the documentation.
Subcommands:

- get      Get the current license
- put      Puts a new license in the datacenter
- reset    Resets the license in the datacenter

## put

This command sets the Consul Enterprise license.

Usage: `consul license put [options] LICENSE`

#### API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

The output looks like this:

```
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
```

## get

This command gets the Consul Enterprise license.

Usage: `consul license get [options]`

#### API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'
The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffec85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
```
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>>> go-openapi_swag-96d7b9ebd181a1735a1c9ac87914f2b32f56c9
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>>> agl_ed25519-master
>>> airbrake_gobrake_v2-c9d51ad624b5cc4c1bf8de730a09fa4878ffe2d
>>> api_compute_v1-dfa61ae42628a06502b9c2805d983b57e89399b5
>>> api_gensupport-dfa61ae42628a06502b9c2805d983b57e89399b5
>>> api_googleapi-dfa61ae42628a06502b9c2805d983b57e89399b5
>>> armon_go-metrics-f303b03b91d770a11a39677f71d3b55da4002bbcb
>>> armon_go-radix-4239b77079c7b5d4237b4736304ce8dbd600f2f
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>>> azure_go-ansiterm-70b2c90b260171e8289f1ebd7c17f600c11858d8e
>>> boltdb_bolt-b51492908f2e0a68f857e5a12c774f385a9aef9
>>> cenkalti_backoff-b02f2bbcel1d7e6af97f282ef1771b0fe26f5e3f
>>> client9_misspell-9a1fcb2456a9e8c9b4ebe9d005b6e7adac0d357f
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>>> codegangsta_cli-master
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>>> go-martini/martini-22fa46961aabd2665c3f31343b146d20028f5071
>>> go-nfs-client-42fa77a36031d648551c751de1dafa5f55dd4f0
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>>> golang_split-6a92c871a8f5333cf106b2ed937567208dbb2b7
>>> goji-param-4749f5d7d1ed53fd562e737a8b5bbcc7e3d925e2
>>> golang_lint-cb00e5669539f0472b4f53a421a01b0c8e1726b
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>>> curl-7.59.0-4.ph2
>>> expat-2.2.4-1.ph2
>>> iputils-20151218-4.ph2
>>> krb5-1.16-2.ph2
>>> libarchive-3.3.1-2.ph2
>>> libcap-2.25-7.ph2
>>> libdb-5.3.28-1.ph2
>>> libffi-3.2.1-5.ph2
>>> libsolv-0.6.26-3.ph2
>>> libssh2-1.8.0-1.ph2
>>> libtirpc-1.0.1-8.ph2
>>> linux-pam-1.3.0-1.ph2
>>> Isol-4.89-2.ph2
>>> ncurses-6.0-14.ph2
>>> openssh-7.5p1-11.ph2
>>> openssl-1.0.2q-1.ph2
>>> pcre-8.41-1.ph2
>>> popt-1.16-5.ph2
>>> shadow-4.2.1-16.ph2
>>> sqlite-3.22.0-3.ph2
>>> sudo-1.8.20p2-5.ph2
>>> vim-8.0.0533-6.ph2
>>> xz-5.2.3-2.ph2
>>> zlib-1.2.11-1.ph2

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>>> e2fsprogs-1.43.4-2.ph2
>>> gcc-6.3.0-7.ph2
>>> iproute2-4.10.0-3.ph2
>>> iphys-4.13.4-2.ph2
>>> linux-esx-4.9.154-1.ph2
>>> logrotate-3.11.0-3.ph2
>>> mingetty-1.08-2.ph2
>>> net-tools-1.60-11.ph2
>>> procps-ng-3.3.15-2.ph2
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>>> bash-4.4.12-3.ph2
>>> coreutils-8.27-3.ph2
>>> elfutils-0.169-3.ph2
>>> grep-3.0-4.ph2
>>> gzip-1.8-1.ph2
>>> haveged-1.9.1-4.ph2
>>> readline-7.0-2.ph2

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>>> glibc-2.26-13.ph2
>>> hawkey-2017.1-6.ph2
>>> kmod-24-3.ph2
>>> libgcrypt-1.8.1-2.ph2
>>> libgpg-error-1.27-1.ph2
>>> systemd-233-18.ph2

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>>> nspr-4.15-1.ph2
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>>> godbus_dbus-230e4b23db2fd81c53eaa0073f76659d4849ce51

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>>> gogo_protobuf_gogoprotobuf-6a92c871a8f5333cf106b2cdf937567208dbb2b7

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>>> smartystreets_assertions-287b4346dc4e71a038c346375a9d572453bc469b

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objc - by Mat Ryer and Tyler Bunnell

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>>> tomb_v1-dd632973f1e7218eb1089048e0798ec9ae7dceb8

tomb - support for clean goroutine termination in Go.

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Julian Seward, jseward@bzip.org
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Re-implemented by Vincent Sanders <vince@kyllikki.org> with extensive reference to original curl example code

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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
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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Tim Kientzle, February 2009.

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>>> ncurses-6.0-14.ph2

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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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b) snprintf replacement

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chkconfig: 2345 11 89
description: sets up CBQ-based traffic control

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IPv6 Hop Limit Target module
Maciej Soltysiak <solt@dns.toxicfilms.tv>
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Reasonably optimised generic C-code for memcpy on Microblaze
This is generic C code to do efficient, alignment-aware memcpy.

It is based on demo code originally Copyright 2001 by Intel Corp, taken from
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This code offers a very basic support for this EISA bus present in the SGI Indigo-2. It currently only supports PIO (forget about DMA for the time being). This is enough for a low-end ethernet card, but forget about your favorite SCSI card...

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A more complete resource is the third edition of "Linux Device Drivers" by Jonathan Corbet, Alessandro Rubini, and Greg Kroah-Hartman. LDD3 is available for free (under Creative Commons License) from:

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However, keep in mind that all documents are subject to "bit rot". Refer to the source code if things are not working as described here.

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line - read one line


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uuidparse.c --- Interpret uuid encoded information. This program violates the UUID abstraction barrier by reaching into the guts of a UUID.

Based on libuuid/src/uuid_time.c
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From Simon Josefsson
-- derivated from coreutils m4/warnings.m4

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setpwnam.c -- edit an entry in a password database.

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Edited 11/10/96 (DD/MM/YY ;-) by Nicolai Langfeldt (janl@math.uio.no) to read /etc/passwd directly so that passwd, chsh and chfn can work on machines that run NIS (previously YP). Changes will not be made to usernames starting with +.

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Usage:
1) get a struct passwd from getpwnam().
You should assume a struct passwd has an infinite number of fields, so you should not try to create one from scratch.
2) edit the fields you want to edit.
3) call setpwnam() with the edited struct passwd.

A _normal user_ program should never directly manipulate etc/passwd but /use getpwnam() and (family, as well as) setpwnam().

But, setpwnam was made to _edit_ the password file. For use by chfn, chsh and passwd. _I_ _HAVE_ to read and write /etc/passwd directly. Let those who say nay be forever silent and think about how getpwnam (and family) works on a machine running YP.

Added checks for failure of malloc() and removed error reporting to stderr, this is a library function and should not print on the screen, but return appropriate error codes.
27-Jan-97 - poe@daimi.aau.dk

Thanks to "two guys named Ian".

$Author: poer $
$Revision: 1.13 $
$Date: 1997/06/23 08:26:29 $

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Python bindings for the libmount library.

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Bison implementation for Yacc-like parsers in C


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error.c -- Functions for handling errors.

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A Bison parser, made by GNU Bison 3.0.4.

Bison interface for Yacc-like parsers in C


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(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library alloca function,
which is used to allocate space off the runtime stack so
that it is automatically reclaimed upon procedure exit,
was inspired by discussions with J. Q. Johnson of Cornell.
J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can
be defined when compiling for your specific system, for
improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep
track of all alloca-allocated blocks, and reclaim any
that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

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alloca.c -- allocate automatically reclaimed memory
(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library alloca function, which is used to allocate space off the run-time stack so that it is automatically reclaimed upon procedure exit, was inspired by discussions with J. Q. Johnson of Cornell. J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

As a special case, alloca(0) reclaims storage without allocating any. It is a good idea to use alloca(0) in your main control loop, etc. to force garbage collection.

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Hash DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
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with and without prediction resistance
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   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
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from the Corresponding Source as a System Library, need not be
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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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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.

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) 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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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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Version 3, 29 June 2007

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---------------- SECTION 21: SIL Open Font License, V1.1 ---------------

SIL OPEN FONT LICENSE

Version 1.1 - 26 February 2007

PREAMBLE

The goals of the Open Font License (OFL) are to stimulate worldwide development of collaborative font projects, to support the font creation efforts of academic and linguistic communities, and to provide a free and open framework in which fonts may be shared and improved in partnership with others.

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The LaTeX Project Public License
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LPPL Version 1.3c 2008-05-04
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==================================
The Work has the status `author-maintained' if the Copyright Holder explicitly and prominently states near the primary copyright notice in the Work that the Work can only be maintained by the Copyright Holder or simply that it is `author-maintained'.
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You can become the Current Maintainer of the Work by agreement with any existing Current Maintainer to take over this role.
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   b. If the Current Maintainer is not reachable and the Copyright Holder agrees that maintenance of the Work be passed to you, then this takes effect immediately upon announcement.
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pig.dtx
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The Current Maintainer of this work is M. Y. Name.

This work consists of the files pig.dtx and pig.ins and the derived file pig.sty.

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Important Recommendations

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Defining What Constitutes the Work

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-------------- SECTION 23: Open Software License 1.1 ------------

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  border-radius: $decor-radius-100;
  border: $decor-border-100;
  color: $black;
}
%notice::before {
  @extend %as-pseudo;
}
%notice header > * {
  @extend %h3;
  font-size: $typo-header-300;
}
%notice footer * {
  @extend %p3;
  font-weight: $typo-weight-bold;
}
%notice-success,
%notice-info,
%notice-highlight,
%notice-error,
%notice-warning {
  @extend %notice;
}

%notice-success {
  background-color: $green-050;
  border-color: $green-500;
}

%notice-info {
  border-color: $blue-100;
  background-color: $gray-010;
}

%notice-info header * {
  color: $blue-700;
}

%notice-highlight {
  background-color: $gray-050;
  border-color: $gray-300;
}

%notice-info header * {
  color: $gray-700;
}

%notice-warning {
  border-color: $yellow-100;
  background-color: $yellow-050;
}

%notice-warning header * {
  color: $yellow-800;
}

%notice-error {
  background-color: $red-050;
  border-color: $red-500;
}

%notice-success::before {
  @extend %with-check-circle-fill-color-mask;
  color: $green-500;
}

%notice-info::before {
  @extend %with-info-circle-fill-color-mask;
  color: $blue-500;
}

%notice-highlight::before {
  @extend %with-star-fill-mask;
  color: $yellow-500;
}

%notice-warning::before {
  @extend %with-alert-triangle-color-mask;
  color: $orange-500;
}
The /operator/license endpoints allow for setting and retrieving the Consul Enterprise License.

---

# License - Operator HTTP API

<EnterpriseAlert />

The licensing functionality described here is available only in [Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

## Getting the Consul License
This endpoint gets information about the current license.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for
[blocking queries](/api/features/blocking),
[consistency modes](/api/features/consistency),
[agent caching](/api/features/caching), and
[required ACLs](/api#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>all</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
</tr>
</tbody>
</table>

### Parameters

- `-dc` `(string: "")` - Specifies the datacenter whose license should be retrieved.
  This will default to the datacenter of the agent serving the HTTP request.
  This is specified as a URL query parameter.

### Sample Request

```
$ curl \
  http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
    "installation_id": "*",
    "issue_time": "2018-05-21T20:03:35.911567355Z",
    "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
    "product": "consul",
    "flags": {
      "package": "premium"
    },
    "features": [
      "Automated Backups",
    ]
  }
}```
"Automated Upgrades",
"Enhanced Read Scalability",
"Network Segments",
"Redundancy Zone",
"Advanced Network Federation"
],
"temporary": false
],
"Warnings": []
}
```

## Updating the Consul License

This endpoint updates the Consul license and returns some of the license contents as well as any warning messages regarding its validity.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>PUT</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for blocking queries[/api/features/blocking), [consistency modes][/api/features/consistency), [agent caching][/api/features/caching), and [required ACLs][/api#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
<td><code>operator:write</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` (string: "") - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Payload

The payload is the raw license blob.

### Sample Request

```
$ curl \
   --request PUT \
   --data @consul.license \
   http://127.0.0.1:8500/v1/operator/license
```
### Sample Response

```json
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
    "installation_id": "*",
    "issue_time": "2018-05-21T20:03:35.911567355Z",
    "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
    "product": "consul",
    "flags": {
      "package": "premium"
    },
    "features": [
      "Automated Backups",
      "Automated Upgrades",
      "Enhanced Read Scalability",
      "Network Segments",
      "Redundancy Zone",
      "Advanced Network Federation"
    ],
    "temporary": false
  },
  "Warnings": []
}
```

## Resetting the Consul License

This endpoint resets the Consul license to the license included in the Enterprise binary. If the included license is not valid, the replace will fail.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>DELETE</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for [blocking queries](/api/features/blocking), [consistency modes](/api/features/consistency), [agent caching](/api/features/caching), and [required ACLs](/api#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
</table>

Open Source Used In IOS XR Software 7.5.2 7747
| `NO` | `none` | `none` | `operator:write` |

### Parameters

- `dc` *(string: "")* - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Request

```shell-session
$ curl \
   --request DELETE \
   http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```json
{
  "Valid": true,
  "License": {
    "license_id": "2afb681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffcc-e85e-0830-c0822c1f5f2b",
    "installation_id": "*",
    "issue_time": "2018-05-21T20:03:35.911567355Z",
    "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
    "product": "consul",
    "flags": {
      "package": "premium"
    },
    "features": [
      "Automated Backups",
      "Automated Upgrades",
      "Enhanced Read Scalability",
      "Network Segments",
      "Redundancy Zone",
      "Advanced Network Federation"
    ],
    "temporary": false
  },
  "Warnings": []
}
```

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@import './skin';
@import './layout';

%notice {
  margin: 1em 0;
}
/**/
.notice.success {
  @extend %notice-success;
}
.notice.warning {
  @extend %notice-warning;
}
.notice.error {
  @extend %notice-error;
}
.notice.info {
  @extend %notice-info;
}
.notice.highlight {
  @extend %notice-highlight;
}
.notice.policy-management {
  @extend %notice-highlight;
}
.notice.crd::before {
  -webkit-mask-image: none;
  mask-image: none;
  background-color: transparent;
  @extend %with-logo-kubernetes-color-icon;
}
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*/

/**  
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*/

package datatypes

// no documentation yet
 type Legal_RegulatedWorkload struct {
    Entity
    Account *Account `json:"account,omitempty" xmlrpc:"account,omitempy"
    AccountId *int `json:"accountId,omitempy" xmlrpc:"accountId,omitempy"
    EnabledFlag *bool `json:"enabledFlag,omitempy" xmlrpc:"enabledFlag,omitempy"
    Id *int `json:"id,omitempy" xmlrpc:"id,omitempy"
    Type *Legal_RegulatedWorkload_Type `json:"type,omitempy" xmlrpc:"type,omitempy"
    WorkloadTypeId *int `json:"workloadTypeId,omitempy" xmlrpc:"workloadTypeId,omitempy"
}

// no documentation yet
 type Legal_RegulatedWorkload_Type struct {
    Entity
    Id *int `json:"id,omitempy" xmlrpc:"id,omitempy"
    KeyName *string `json:"keyName,omitempy" xmlrpc:"keyName,omitempy"
    Name *string `json:"name,omitempy" xmlrpc:"name,omitempy"
}
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https://github.com/google/go-github/ and
https://github.com/digitalocean/godo

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1.525 pcre 8.35

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THE BASIC LIBRARY FUNCTIONS

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1.526 xxhash 2.1.1

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1.527 polkit 0.113

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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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Gocheck - A rich testing framework 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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1.543 x-sys 0.0.0-20210124154548-22da62e12c0c

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1.552 zlib 1.2.8

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```
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```

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* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/x_user_defined.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/tests.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/labels.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/__init__.py

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from setuptools import setup, find_packages
import os
import re

VERSION = re.search("VERSION = '([^']+)'", open(  
    path.join(path.dirname(__file__), '__init__.py'),  
    encoding='utf-8').read()).strip()  
LONG_DESCRIPTION = io.open(  
    path.join(path.dirname(__file__), 'README.rst'),  
    encoding='utf-8').read()
setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
    description='Character encoding aliases for legacy web content',
    long_description=LONG_DESCRIPTION,
    classifiers=[
        'Development Status :: 4 - Beta',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Programming Language :: Python :: Implementation :: CPython',
        'Programming Language :: Python :: Implementation :: PyPy',
        'Topic :: Internet :: WWW/HTTP',
    ],
    packages=find_packages(),
)

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1-1.tar-gz/webencodings-0.5.1/setup.py
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====

webencodings.mklabels
~~~~~~~~~~~~~~~~~~~~~

Regenerate the webencodings.labels module.

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====

import json
try:
    from urllib import urlopen
except ImportError:
    from urllib.request import urlopen

def assert_lower(string):
    assert string == string.lower()
    return string

def generate(url):
    parts = ['''
    """
    webencodings.labels
    ~~~~~~~~~~~~~~~~~~~
    Map encoding labels to their name.
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    """
    # XXX Do not edit!
    # This file is automatically generated by mklabels.py

    LABELS = {
        '''
    labels = [
        (repr(assert_lower(label)).lstrip('u'),
         repr(encoding[\'name\']).lstrip('u'))
        for category in json.loads(urlopen(url).read().decode('ascii'))
        for encoding in category[\'encodings\']
        for label in encoding[\'labels\']
    max_len = max(len(label) for label, name in labels)
    parts.extend('    %s:%s %s,
' % (label, ' ' * (max_len - len(label)), name)
        for label, name in labels)
    parts.append('}]
    return ''.join(parts)

if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py
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Metadata-Version: 1.1
Name: webencodings
Version: 0.5.1
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Geoffrey Sneddon
Author-email: me@gsnedders.com
License: BSD
Description: python-webencodings

This is a Python implementation of the `WHATWG Encoding standard
<http://encoding.spec.whatwg.org/>`

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker:
  https://github.com/gsnedders/python-webencodings
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* Python 2.6+ and 3.3+

In order to be compatible with legacy web content
when interpreting something like ``Content-Type: text/html; charset=latin1``,
tools need to use a particular set of aliases for encoding labels
as well as some overriding rules.
For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually
aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence
over any other encoding declaration.
The Encoding standard defines all such details so that implementations do
not have to reverse-engineer each other.

This module has encoding labels and BOM detection,
but the actual implementation for encoders and decoders is Pythons.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
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Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
python-webencodings

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              2004, route des Lucioles, 06565 Valbonne Cedex, FRANCE
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### 1.567 go-md2man 2.0.0-20190314233015-f79a8a8ca69d

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1.568 go-oidc 2.1.0+incompatible

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Version 3, 29 June 2007

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1.579 jcmturner-gokrb 8.0.0
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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/mach/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mach/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
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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
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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1.586 nomad 0.0.0-20191220223628-edc62acd919d

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---

layout: docs
page_title: 'Commands: license'
description: |
The license command is used to interact with an enterprise license.
---

# Command: license

~> License commands are new in Nomad 0.12.0 and are only available with Nomad Enterprise.

The `license` command provides cluster level management of the Nomad Enterprise license.

If ACLs are enabled then a token with operator privileges may be required in order to use this command.

Click [here](https://www.hashicorp.com/products/nomad/trial) to get a trial license for Nomad Enterprise.

## Usage

Usage: `nomad license <subcommand> [options]`

Run `nomad license <subcommand> -h` for help on that subcommand. The following subcommands are available:

- `license get` - Get the current license

[get]: /docs/commands/license/get 'Get the current license'

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The `license get` command is used to retrieve the current Nomad Enterprise license. The command is not forwarded to the Nomad leader, and will return the license from the specific server being contacted.

```
~> License commands are new in Nomad 0.12.0 and are only available with Nomad Enterprise.

## Usage

```plaintext
nomad license get [options]
```

When ACLs are enabled, this command requires a token with the 'operator:read' capability.

## General Options

@include 'general_options_no_namespace.mdx'

## Examples

```
~> shell-session
$ nomad license get
```
Product = nomad
License Status = valid
License ID = e23f63b1-00ec-4e67-e926-c22e7937ceec
Customer ID = 350356e5-8aec-bdf4-8510-b205079ccad2
Expires At = 2020-05-09 00:00:00 +0000 UTC
License ID = e23f63b1-00ec-4e67-e926-c22e7937ceec
Customer ID = 350356e5-8aec-bdf4-8510-b205079ccad2
Terminates At = 2020-05-10 00:00:00 +0000 UTC
Datacenter = *
Modules:
  - governance-policy
Licensed Features:
  - Automated Upgrades
  - Enhanced Read Scalability
  - Redundancy Zones
  - Namespaces
  - Resource Quotas
  - Preemption
  - Audit Logging
  - Sentinel Policies

```shell-session
$ nomad license get -stale=true
```

Product = nomad
License Status = valid
License ID = 8c647f6c-1e6d-18d8-7f05-92c4d8110b2d
Customer ID = 350356e5-8aec-bdf4-8510-b205079ccad2
Issued At = 2021-03-31 14:21:16.969610774 +0000 UTC
Expires At = 2022-04-01 00:00:00 +0000 UTC
Terminates At = 2022-04-04 00:00:00 +0000 UTC
Datacenter = *
Modules:
  - governance-policy
  - multicluster-and-efficiency
Licensed Features:
  - Automated Upgrades
  - Enhanced Read Scalability
  - Redundancy Zones
  - Namespaces
  - Resource Quotas
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---

# License Operator HTTP API

`<EnterpriseAlert />`

## Get Nomad Enterprise License Info

This endpoint gets information about the current license.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td><code>/v1/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for [blocking queries](/api-docs#blocking-queries) and
[required ACLs](/api-docs#acls).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>operator:read</code></td>
</tr>
</tbody>
</table>

### Sample Request
```shell-session
$ curl \\
    https://localhost:4646/v1/operator/license
```

### Sample Response
```json
{
    "KnownLeader": false,
    "LastContact": 0,
    "LastIndex": 0,
    "License": {
        "CustomerID": "customer name",
        "ExpirationTime": "2020-06-01T14:50:16.581304556-04:00",
        "Features": [
            "Automated Upgrades",
            "Enhanced Read Scalability",
            "Redundancy Zones",
            "Namespaces",
            "Resource Quotas",
            "Preemption",
            "Audit Logging",
            "Setinel Policies"
        ],
        "Flags": {
            "modules": ["governance-policy"]
        },
        "InstallationID": "*",
        "IssueTime": "2020-06-01T08:50:16.581304556-04:00",
        "LicenseID": "6f706a45-bdac-4a70-968b-d93784894653",
        "Modules": ["governance-policy"],
        "Product": "nomad",
        "StartTime": "2020-06-01T08:50:16.581304556-04:00",
        "TerminationTime": "2020-06-01T14:50:16.581304556-04:00"
    },
    "RequestTime": 0
}
```
package command

import (
    "testing"
    "time"
    "github.com/hashicorp/nomad/api"
    "github.com/mitchellh/cli"
    "github.com/stretchr/testify/require"
)

var _ cli.Command = &LicenseGetCommand{}

func TestCommand_LicenseGet_OSSErr(t *testing.T) {
    t.Parallel()

    srv, _, url := testServer(t, false, nil)
    defer srv.Shutdown()

    ui := cli.NewMockUi()
    cmd := &LicenseGetCommand{Meta: Meta{Ui: ui}}

    code := cmd.Run([]string{"-address=" + url})
    if srv.Enterprise {
        require.Equal(t, 0, code)
    } else {
        require.Equal(t, 1, code)
        require.Contains(t, ui.ErrorWriter.String(), "Nomad Enterprise only endpoint")
    }
}

func TestOutputLicenseReply(t *testing.T) {
    now := time.Now()
    lic := &api.LicenseReply{
        License: &api.License{
            LicenseID:       "licenseID",
            CustomerID:      "customerID",
            InstallationID:  "*",
            IssueTime:       now,
            StartTime:       now,
            ExpirationTime:  now.Add(1 * time.Hour),
            TerminationTime: now,
            Product:         "nomad",
            Flags: map[string]interface{}{
                "": nil,
                },
        },
    }
}
ui := cli.NewMockUi()

require.Equal(t, 0, OutputLicenseReply(ui, lic))

out := ui.OutputWriter.String()
require.Contains(t, out, "Customer ID")
require.Contains(t, out, "License ID")
}

package command

import {
  "fmt"
  "strings"
  "time"

  "github.com/hashicorp/nomad/api"
  "github.com/mitchellh/cli"
}

var _ cli.Command = &LicenseCommand{}

type LicenseCommand struct {
  Meta
}

func (l *LicenseCommand) Help() string {
  helpText := `Usage: nomad license <subcommand> [options] [args]

This command has subcommands for managing the Nomad Enterprise license. For more detailed examples see: https://www.nomadproject.io/docs/commands/license/

Retrieve the server's license:

$ nomad license get

`
  Usage: nomad license <subcommand> [options] [args]

This command has subcommands for managing the Nomad Enterprise license. For more detailed examples see: https://www.nomadproject.io/docs/commands/license/

Retrieve the server's license:

$ nomad license get

`
  return strings.TrimSpace(helpText)
}

func (l *LicenseCommand) Synopsis() string {
  return "Interact with Nomad Enterprise License"
}

func (l *LicenseCommand) Name() string { return "license" }
func (l *LicenseCommand) Run(args []string) int {
    return cli.RunResultHelp
}

func OutputLicenseReply(ui cli.Ui, resp *api.LicenseReply) int {
    now := time.Now()
    expired := resp.License.ExpirationTime.Before(now)
    outputLicenseInfo(ui, resp.License, expired)
    if expired {
        return 1
    }
    return 0
}

func outputLicenseInfo(ui cli.Ui, lic *api.License, expired bool) {
    expStr := ""
    if expired {
        expStr = fmt.Sprintf("Expired At\%s", lic.ExpirationTime.String())
    } else {
        expStr = fmt.Sprintf("Expires At\%s", lic.ExpirationTime.String())
    }

    validity := "valid"
    if expired {
        validity = "expired!"
    }

    output := []string{
        fmt.Sprintf("Product\%s", lic.Product),
        fmt.Sprintf("License Status\%s", validity),
        fmt.Sprintf("License ID\%s", lic.LicenseID),
        fmt.Sprintf("Customer ID\%s", lic.CustomerID),
        fmt.Sprintf("Issued At\%s", lic.IssueTime),
        expStr,
        fmt.Sprintf("Datacenter\%s", lic.InstallationID),
    }
    ui.Output(formatKV(output))

    if len(lic.Modules) > 0 {
        ui.Output("Modules:")
        for _, mod := range lic.Modules {
            ui.Output(fmt.Sprintf("\t%\s", mod))
        }
    }

    if len(lic.Features) > 0 {
        ui.Output("Licensed Features:")
        for _, f := range lic.Features {
            ui.Output(fmt.Sprintf("\t%\s", f))
        }
    }
}
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---

This FAQ is for the license changes introduced in Nomad Enterprise version v1.1.0+ent.
Nomad Enterprise automatically load Nomad licenses when a Nomad server agent starts using Nomad Enterprise.

### Q: Can I get a quick summary of the Nomad changes?

Starting with Nomad Enterprise v1.1.0, the license enablement process is different.

HashiCorp Enterprise servers will no longer start without a license. When the server instance initializes the license watcher, the server reads from either an environment variable or file. If the license is missing, invalid, or expired, the server will immediately exit.

This check is part of the server boot-up process.

In previous versions of HashiCorp enterprise products, one server could distribute a license to other servers via the Raft protocol.

This will no longer work since each server must be able to find a valid license during the startup process.

### Q: What resources are available?

The list below is a great starting point for learning more about the license changes introduced in Nomad Enterprise v1.1.0

- [v1.1.0 Upgrade Guide](https://www.nomadproject.io/docs/upgrade/upgrade-specific#enterprise-licenses)

- [Nomad License Documentation](https://www.nomadproject.io/docs/enterprise/license)

- [License configuration values](https://www.nomadproject.io/docs/enterprise/license)
Q: Does this affect Nomad or older versions of Nomad?
This change only affects Nomad Enterprise version v1.1.0+ent and later.

Q: Does the license have to be present on Nomad client nodes?
Only Nomad server nodes need to have the license present.
Nomad agents running with the `-dev` flag will also need a license.

Q: What are some pitfalls that could be experienced during an upgrade because of the license changes?
If you follow the steps in the upgrade guide, but have misconfigured the licensing steps, the server instances will stop during boot-up sequence.
If you do not check cluster health after adding new servers, and verify that the new servers have joined properly, then you may accidentally take down old servers without replacing them.
If you are using a trial license in production, this could cause issues as the cluster will fail to start once the trial expires.
If you have built automation around `nomad license put`, this command will fail as it has been removed from Nomad v1.1.0+.

Q: What are some other gotchas?
You might not have access to your organization's Nomad license.
The 6-hour temporary license window is now removed, and a license is required for proper boot-up.
Running `nomad agent -dev` without a license will fail.

Q: How can a user get their existing license to put on disk for an upgrade?
If you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license.
You can use `nomad license get` to retrieve information about the license, but not the license itself.

Q: What happens when a license expires?
If a license expires after a server node joins the cluster, the existing Enterprise features will continue to operate until a grace period expires.
The grace period duration is 1 day, and upon the end of the grace period the Nomad servers will shut down.
## Q: Will on-prem binaries with baked-in licenses work?

There is no impact to baked-in licensed binaries.

## Q: Are licenses cluster-specific? node-specific?

Licenses can be reused on different nodes and different clusters.

## Q: Where can users get a trial license for Nomad?

Visit https://nomadproject.io/trial for a free 30-day trial license.

## Q: When a Nomad client agent restarts, will it still need a license file?

Every time `nomad agent` runs as a server (or in `-dev`), it requires a license.

## Q: May I downgrade Nomad Enterprise from v1.1.0 to an earlier version?

Nomad cannot safely be rolled back to an earlier version. This is not a supported operation due to the Nomad state store not having forward compatibility. The end result could be a crash loop.

## Q: Is there a tutorial available for the license configuration steps?

Please visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license).

```go
go
import (
    "fmt"
    "github.com/hashicorp/nomad/api"
    "github.com/posener/complete"
)

type LicenseGetCommand struct {
    Meta
}

func (c *LicenseGetCommand) Help() string {
    helpText := `
    Usage: nomad license get [options]
    
    Gets the license loaded by the server. The command is not forwarded to the Nomad leader, and will return the license from the specific server being contacted.

    When ACLs are enabled, this command requires a token with the 'operator:read' capability.
    
    
    
    `)
    return helpText
}
```
General Options:

` + generalOptionsUsage(usageOptsDefault|usageOptsNoNamespace)

return helpText
}

func (c *LicenseGetCommand) AutocompleteFlags() complete.Flags {
    return complete.Flags{
    }
}

func (c *LicenseGetCommand) AutocompleteArgs() complete.Predictor {
    return complete.PredictNothing
}

func (c *LicenseGetCommand) Synopsis() string {
    return "Retrieve the current Nomad Enterprise License"
}

func (c *LicenseGetCommand) Name() string {
    return "license get"
}

func (c *LicenseGetCommand) Run(args []string) int {
    flags := c.Meta.FlagSet(c.Name(), FlagSetClient)
    flags.Usage = func() { c.Ui.Output(c.Help()) }

    if err := flags.Parse(args); err != nil {
        c.Ui.Error(fmt.Sprintf("Error parsing flags: %s", err))
        return 1
    }

    client, err := c.Meta.Client()
    if err != nil {
        c.Ui.Error(fmt.Sprintf("Error initializing client: %s", err))
        return 1
    }

    resp, _, err := client.Operator().LicenseGet(&api.QueryOptions{ })
    if err != nil {
        c.Ui.Error(fmt.Sprintf("Error getting license: %v", err))
        return 1
    }

    return OutputLicenseReply(c.Ui, resp)
}

---

layout: docs
page_title: Nomad Enterprise Licensing

Open Source Used In IOS XR Software 7.5.2 8644
Learn about how Nomad Enterprise licensing works.

## Nomad Enterprise Licensing

Licensing capabilities were added to Nomad Enterprise v0.12.0. Each server in the cluster must have its own license. Nomad Enterprise can be downloaded from the [releases site].

Click [here](https://www.hashicorp.com/go/nomad-enterprise) to set up a demo of Nomad Enterprise or [here](https://nomadproject.io/trial) to get a trial license.

--> **Note:** A Nomad Enterprise cluster cannot be downgraded to the open source version of Nomad. Servers running the open source version of Nomad will panic if they are joined to a Nomad Enterprise cluster. See issue [gh-9958] for more details.

## Expiring Licenses

Nomad Enterprise license have an expiration time. You can read the license on a server with the `nomad license get` command:

```
$ nomad license get
Product        = nomad
License Status = valid
License ID     = eaaecbd5-b598-4fa4-b649-bb234bf49fa3
Customer ID    = ae94bdd0-39bf-4c58-bf80-8a9468b0467c
Issued At      = 2021-03-29 14:47:29.024191 -0400 EDT
Expires At     = 2021-03-29 20:47:29.024191 -0400 EDT
Datacenter     = *
Modules:
  governance-policy
  multicluster-and-efficiency
Licensed Features:
  Automated Upgrades
  Enhanced Read Scalability
  Redundancy Zones
  Namespaces
  Resource Quotas
  Audit Logging
  Sentinel Policies
  Multiregion Deployments
  Automated Backups
  Multi-Vault Namespaces
  Dynamic Application Sizing
```
As a Nomad Enterprise license approaches its expiration time, Nomad servers will periodically log a warning message about the approaching expiration. Below shows log excerpts of the warnings.

```
2021-03-29T15:02:28.100-0400 [WARN] nomad.licensing: license expiring: time_left=5m0s
2021-03-29T15:03:28.103-0400 [WARN] nomad.licensing: license expiring: time_left=4m0s
2021-03-29T15:04:28.106-0400 [WARN] nomad.licensing: license expiring: time_left=3m0s
2021-03-29T15:05:28.109-0400 [WARN] nomad.licensing: license expiring: time_left=2m0s
2021-03-29T15:06:28.112-0400 [WARN] nomad.licensing: license expiring: time_left=1m0s
2021-03-29T15:07:28.114-0400 [WARN] nomad.licensing: license expiring: time_left=0s
2021-03-29T15:07:58.104-0400 [ERROR] nomad.licensing: license expired, please update license: error="invalid license or license is expired"
```

When the license expires, enterprise functionality will become limited. Only read operations on enterprise endpoints will be supported, and write operations will return an error.

Note that if the server is restarted with an expired license, it will immediately stop.

## Configuring the License

See the server [license configuration] reference documentation on all the options to set an enterprise license. Nomad will load the license file from disk or environment when it starts.

```
~> **Note:** An Enterprise license [tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=nomad/enterprise) is available to help you install the license on the server.

In order to immediately alert operators of a bad configuration setting, if a license configuration option is an invalid or expired license, the Nomad server will exit with an error.

```
NOMAD_LICENSE=misconfigured nomad agent -dev
```

See the [License commands](https://github.com/hashicorp/nomad/docs/commands/license) for more information on interacting with the Enterprise License.

[gh-9958]: https://github.com/hashicorp/nomad/issues/9958
1.587 pax-utils 1.2.6-r1

1.587.1 Available under license:

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Version 2, June 1991

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collector. Later contributions should instead be mentioned in
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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@ntiame.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(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.)

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1.599 go.etcd.io-bbolt 1.3.5

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 */

/**
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 */

package datatypes

// no documentation yet
type Legal_RegulatedWorkload struct {
    Entity

// no documentation yet
    Account *Account `json:"account,omitempty" xmlrpc:"account,omitempty"

// no documentation yet
    AccountId *int `json:"accountId,omitempty" xmlrpc:"accountId,omitempyt"

// no documentation yet
    EnabledFlag *bool `json:"enabledFlag,omitempyt" xmlrpc:"enabledFlag,omitempyt"

// no documentation yet
    Id *int `json:"id,omitempyt" xmlrpc:"id,omitempyt"

// no documentation yet
    Type *Legal_RegulatedWorkload_Type `json:"type,omitempyt" xmlrpc:"type,omitempyt"

// no documentation yet
    WorkloadTypeId *int `json:"workloadTypeId,omitempyt" xmlrpc:"workloadTypeId,omitempyt"
// no documentation yet
type Legal_RegulatedWorkload_Type struct {
    Entity

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"

    // no documentation yet
    KeyName *string `json:"keyName,omitempty" xmlrpc:"keyName,omitempty"

    // no documentation yet
    Name *string `json:"name,omitempty" xmlrpc:"name,omitempty"
}
and conversions to other media types.

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>>> yaml_v2-4c78c975fe7c8256d1466c42be594d1d6f3aba6

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>>> d2g_dhcp4client-master
>>> hashicorp_go-cleanhttp-875fb671b3ddc66f8e2f0acc33829c8ceb989a38d
>>> hashicorp_memberlist-cef12ad58224d55c26caa9e3d239e2fcb3432a2

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>>> libarchive-3.3.1-2.ph2
>>> libcap-2.25-7.ph2
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>>> gcc-6.3.0-7.ph2
>>> iproute2-4.10.0-3.ph2
>>> iptables-1.6.1-4.ph2
>>> linux-esx-4.9.154-1.ph2
>>> logrotate-3.11.0-3.ph2
>>> mingetty-1.08-2.ph2
>>> net-tools-1.60-11.ph2
>>> procps-ng-3.3.15-2.ph2
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>>> coreutils-8.27-3.ph2
>>> elfutils-0.169-3.ph2
>>> grep-3.0-4.ph2
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>>> readline-7.0-2.ph2

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google-api-go-client-dfa61ae24628a06502b9c2805d983b57e89399b5/examples/pubsub.go

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>>> codegangsta_cli-master

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>>> cpuguy83_go-md2man_md2man-a65d4d2de4d5f7c74868dfa9b202a38be315aaa

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>>> gemnasium_logrus-airbrake-hook_v2-31e6fd4bd5a98d8ee7673d24bc54ec73c31810dd

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rs/cors-8dd4211af6b5d08d1b39a533b39e4b486351df6
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ryanuber_go-glob-256dc444b735e061061cf46e809487313d5b0065
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>>> stretchr_objx-1a9d0bb9f541897e62256577b352fdbc1fb4fd94

objx - by Mat Ryer and Tyler Bunnell

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tomb - support for clean goroutine termination in Go.

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https://www.ietf.org/rfc/rfc2268.txt

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Authors: Alexey Kuznetsov, <kuznet@ms2.inr.ac.ru>
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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密封.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/gsssd_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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>>> ncurses-6.0-14.ph2

Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

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

>>> openssh-7.5p1-11.ph2

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@version 3.0 (December 2000)

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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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>>> pcres-8.41-1.ph2

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Written by Carlos O'Donell <carlos@codesourcery.com>
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chckconfig: 2345 11 89
description: sets up CBQ-based traffic control

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Maciej Soltysiak <solt@dns.toxicfilms.tv>
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Written by David Howells (dhowells@redhat.com)

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This C header file is part of the SoftFloat IEC/IEEE Floating-point Arithmetic Package, Release 2.

Written by John R. Hauser. This work was made possible in part by the International Computer Science Institute, located at Suite 600, 1947 Center Street, Berkeley, California 94704. Funding was partially provided by the National Science Foundation under grant MIP-9311980. The original version of this code was written as part of a project to build a fixed-point vector processor in collaboration with the University of California at Berkeley, overseen by Profs. Nelson Morgan and John Wawrzynek. More information is available through the Web page http://www.jhauser.us/arithmetic/SoftFloat-2b/SoftFloat-source.txt

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Reasonably optimised generic C-code for memcpy on Microblaze
This is generic C code to do efficient, alignment-aware memcpy.

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This code offers a very basic support for this EISA bus present in the SGI Indigo-2. It currently only supports PIO (forget about DMA for the time being). This is enough for a low-end ethernet card, but forget about your favorite SCSI card...

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A more complete resource is the third edition of "Linux Device Drivers" by Jonathan Corbet, Alessandro Rubini, and Greg Kroah-Hartman. LDD3 is available for free (under Creative Commons License) from:

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However, keep in mind that all documents are subject to "bit rot". Refer to the source code if things are not working as described here.

Please send questions/comments/patches about Linux PCI API to the "Linux PCI" <linux-pci@atrey.karlin.mff.cuni.cz> mailing list.

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mkinstalldirs --- make directory hierarchy
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>>> tdnf-1.2.3-6.ph2

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Based on scriptreplay.pl by Joey Hess <joey@kitenet.net>

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line - read one line

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uuidparse.c --- Interpret uuid encoded information. This program violates the UUID abstraction barrier by reaching into the guts of a UUID.

Based on libuuid/src/uuid_time.c
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From Simon Josefsson
-- derivated from coreutils m4/warnings.m4

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setpwnam.c -- edit an entry in a password database.

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Edited 11/10/96 (DD/MM/YY ;-) by Nicolai Langfeldt (janl@math.uio.no)
to read /etc/passwd directly so that passwd, chsh and chfn can work on
machines that run NIS (previously YP). Changes will not be made to
usernames starting with +.

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Usage:
1) get a struct passwd from getpwnam().
You should assume a struct passwd has an infinite number of fields, so
you should not try to create one from scratch.
2) edit the fields you want to edit.
3) call setpwnam() with the edited struct passwd.

A _normal user_ program should never directly manipulate etc/passwd but
/use getpwnam() and (family, as well as) setpwnam().

But, setpwnam was made to _edit_ the password file. For use by chfn,
chsh and passwd, _I HAVE_ to read and write /etc/passwd directly. Let
those who say nay be forever silent and think about how getpwnam (and
family) works on a machine running YP.

Added checks for failure of malloc() and removed error reporting to
stderr, this is a library function and should not print on the screen,
but return appropriate error codes.
27-Jan-97 - poe@daimi.aau.dk
Thanks to "two guys named Ian".

$Author: poer $
$Revision: 1.13 $
$Date: 1997/06/23 08:26:29 $

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Python bindings for the libmount library.

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Written by Ondrej Oprala and Karel Zak

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Bison implementation for Yacc-like parsers in C


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Bison interface for Yacc-like parsers in C


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/ Bison implementation for Yacc-like parsers in C


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(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library alloca function,
which is used to allocate space off the run-time stack so
that it is automatically reclaimed upon procedure exit,
was inspired by discussions with J. Q. Johnson of Cornell.
J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can
be defined when compiling for your specific system, for
improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep
track of all alloca-allocated blocks, and reclaim any
that are found to be deeper in the stack than the current
invocation. This heuristic does not reclaim storage as
soon as it becomes invalid, but it will do so eventually.

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alloca.c -- allocate automatically reclaimed memory
(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library alloca function,
which is used to allocate space off the run-time stack so
that it is automatically reclaimed upon procedure exit,
was inspired by discussions with J. Q. Johnson of Cornell.
J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can
be defined when compiling for your specific system, for
improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep
track of all alloca-allocated blocks, and reclaim any
that are found to be deeper in the stack than the current
invocation. This heuristic does not reclaim storage as
soon as it becomes invalid, but it will do so eventually.

As a special case, alloca(0) reclaims storage without
allocating any. It is a good idea to use alloca(0) in
your main control loop, etc. to force garbage collection.

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/  

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DRBG: Deterministic Random Bits Generator
Based on NIST Recommended DRBG from NIST SP800-90A with the following properties:
- CTR DRBG with DF with AES-128, AES-192, AES-256 cores
- Hash DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
- HMAC DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
   with and without prediction resistance

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estream.c - Extended Stream I/O Library
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spr-4.15.tar.gz\.
 stage\v4.15\src\spr-4.15.tar\spr-4.15\spr\misc\prcountr.c
```

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nss-3.31.1.tar.gz\..\stage\NSS_3_31_1_RTM\src\nss-3.31.1.tar\nss-3.31.1\nss\coreconf\mkdepend\def.h

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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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TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also 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:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

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signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
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10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients’ exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
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11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and “any later version”, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

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DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

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.

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

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Library General Public
License as published by the Free Software Foundation; either
version 2 of the License, or (at your option) any later version.
This library 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  
Library General Public License for more details.  

You should have received a copy of the GNU Library General Public  
License along with this library; if not, write to the Free  
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA  

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!  

--------------- SECTION 5: GNU Lesser General Public License, V2.1 -----------  

GNU LESSER GENERAL PUBLIC LICENSE  
Version 2.1, February 1999  

Copyright (C) 1991, 1999 Free Software Foundation, Inc.  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.  

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]  

Preamble  

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.  

This license, the Lesser General Public License, applies to some
special designated software packages—typically libraries—of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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

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

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

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

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

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

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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-------------- SECTION 21: SIL Open Font License, V1.1 ------------

SIL OPEN FONT LICENSE

Version 1.1 - 26 February 2007
PREAMBLE

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   a. If it is being maintained, then ask the Current Maintainer to update their communication data within one month.
   b. If the search is unsuccessful or no action to resume active maintenance is taken by the Current Maintainer, then
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-----------------------------------------------------

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The Current Maintainer of this work is M. Y. Name.

This work consists of the files pig.dtx and pig.ins and the derived file pig.sty.

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Important Recommendations

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SECTION 23: Open Software License v. 1.1

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1.614 prettytable 0.7.2-7.ph4

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1.615 cockroach 0.0.0-20181001143604-e0a95dfd547c

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Johan Bilien <jobi@litl.com>
Matthew Von-Maszewski <https://github.com/matthewvon> (Basho Technologies)
# Test multiple notices all display at once.
query T noticetrace
SELECT crdb_internal.notice('hi'), crdb_internal.notice('i am....'), crdb_internal.notice('otan!!!')
----
NOTICE: hi
NOTICE: i am....
NOTICE: otan!!!

subtest test_notice_severity

query T noticetrace
SELECT crdb_internal.notice('debug1', 'do not see this'), crdb_internal.notice('warning', 'but you see this'), crdb_internal.notice('debug2', 'and never this')
WARNING: but you see this

statement ok
SET client_min_messages = 'debug1'

query T noticetrace
SELECT crdb_internal.notice('debug1', 'now you see this'), crdb_internal.notice('warning', 'and you see this'), crdb_internal.notice('debug2', 'and never this')

DEBUG1: now you see this
WARNING: and you see this

statement ok
CREATE DATABASE d;
CREATE TABLE d.t (x int)

query T noticetrace
ALTER TABLE d.t RENAME TO d.t2

NOTICE: renaming tables with a qualification is deprecated
HINT: use ALTER TABLE d.t RENAME TO t2 instead

# Start off with an empty enum, and add values to it.
statement ok
CREATE TYPE color AS ENUM ()

statement ok
ALTER TYPE color ADD VALUE 'black'

query T noticetrace
ALTER TYPE color ADD VALUE IF NOT EXISTS 'black'

NOTICE: enum value "black" already exists, skipping

statement ok
CREATE MATERIALIZED VIEW v AS SELECT 1

query T noticetrace
REFRESH MATERIALIZED VIEW CONCURRENTLY v

NOTICE: CONCURRENTLY is not required as views are refreshed concurrently

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package base

import (
    "context"
    "time"

    "github.com/cockroachdb/cockroach/pkg/settings/cluster"
    "github.com/cockroachdb/cockroach/pkg/util/uuid"
    "github.com/cockroachdb/errors"
)

var errEnterpriseNotEnabled = errors.New("OSS binaries do not include enterprise features")

// CheckEnterpriseEnabled returns a non-nil error if the requested enterprise
// feature is not enabled, including information or a link explaining how to
// enable it.
// This function is overridden by an init hook in CCL builds.
var CheckEnterpriseEnabled = func(_ *cluster.Settings, _ uuid.UUID, org, feature string) error { return errEnterpriseNotEnabled // nb: this is squarely in the hot path on OSS builds }

// TimeToEnterpriseLicenseExpiry returns a duration object that measures the time until
// the currently set enterprise license expires starting from the 3rd argument
// passed in.
// This function is overridden by an init hook in CCL builds
var TimeToEnterpriseLicenseExpiry = func(ctx context.Context, _ *cluster.Settings, _ time.Time, ) (time.Duration, error) { return 0, nil }

// LicenseType returns what type of license the cluster is running with, or
// "OSS" if it is an OSS build.
// This function is overridden by an init hook in CCL builds.
var LicenseType = func(st *cluster.Settings) (string, error) { return "OSS", nil }

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package builtins

import (  
  "strings"

  "github.com/cockroachdb/cockroach/pkg/sql/pgwire/pgnotice"
  "github.com/cockroachdb/cockroach/pkg/sql/pgwire/pgwire"

  "github.com/cockroachdb/cockroach/pkg/sql/pq"  
  "github.com/cockroachdb/errors"
)

// crdbInternalSendNotice sends a notice.
// Note this is extracted to a different file to prevent churn on the pgwire
// test, which records line numbers.
func crdbInternalSendNotice(
    ctx *tree.EvalContext, severity string, msg string,
) (tree.Datum, error) {
    if ctx.ClientNoticeSender == nil {
        return nil, errors.AssertionFailedf("notice sender not set")
    }
    ctx.ClientNoticeSender.BufferClientNotice(
        ctx.Context,
        pgnotice.NewWithSeverityf(strings.ToUpper(severity), "%s", msg),
    )
    return tree.NewDInt(0), nil
}

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## All-Time External Contributors

330 contributors, 1609 commits


## By Year
### 2020

96 contributors, 333 commits

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### 2019

48 contributors, 144 commits


### 2018

54 contributors, 120 commits

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### 2017

73 contributors, 250 commits


### 2016

42 contributors, 320 commits
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43 contributors, 308 commits

### 2014

17 contributors, 134 commits


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# Test notices work as expected by creating a VIEW on a TEMP TABLE.

# Prepare the environment.

```sql
send Query {"String": "DROP TABLE IF EXISTS t CASCADE"}
```
send Query {"String": "CREATE TABLE t(x INT, y INT)"}

send Query {"String": "CREATE INDEX t_x_idx ON t(x)"}

send Query {"String": "CREATE INDEX t_y_idx ON t(y)"}

send Query {"String": "DROP INDEX t_x_idx"}

send Query {"String": "DROP INDEX t_y_idx"}

# Check that crdb reports a notice upon drop index.

send Query {"String": "DROP INDEX t_x_idx"}

send Query {"String": "DROP INDEX t_y_idx"}
nName":"
"DataTypeName":"
"ConstraintName":"
"File": "drop_index.go"
"Line": 547
"Routine": "dropIndexByName"

{"Type": "CommandComplete"
"CommandTag": "DROP INDEX"}

until noncrdb_only
CommandComplete
----
{"Type": "CommandComplete"
"CommandTag": "DROP INDEX"}

until
ReadyForQuery
----
{"Type": "ReadyForQuery" 
"TxStatus": "I"}

# Disable notices and assert now it is not sent.
send crdb_only
Query {"String": "SET CLUSTER SETTING sql.notices.enabled = false"}
----

until crdb_only
ReadyForQuery
----
{"Type": "CommandComplete"
"CommandTag": "SET CLUSTER SETTING"}
{"Type": "ReadyForQuery" 
"TxStatus": "I"}

# Check that the notice is not printed any more.

send
Query {"String": "DROP INDEX t_y_idx"}
----

until
ReadyForQuery
----
{"Type": "CommandComplete"
"CommandTag": "DROP INDEX"}
{"Type": "ReadyForQuery" 
"TxStatus": "I"}

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package utilccl

import (}
"bytes"
var enterpriseLicense = func() *settings.StringSetting {
    s := settings.RegisterValidatedStringSetting(
        "enterprise.license",
        "the encoded cluster license",
        func(sv *settings.Values, s string) error {
            _, err := decode(s)
            return err
        },
    )
    // Even though string settings are non-reportable by default, we
    // still mark them explicitly in case a future code change flips the
    // default.
    s.SetReportable(false)
    s.SetVisibility(settings.Public)
    return s
}()

// enterpriseStatus determines whether the cluster is enabled
// for enterprise features or if enterprise status depends on the license.
var enterpriseStatus int32 = deferToLicense

const (
    deferToLicense    = 0
    enterpriseEnabled = 1
)

// errEnterpriseRequired is returned by check() when the caller does
// not request detailed errors.
var errEnterpriseRequired = pgerror.New(pgcode.CCLValidLicenseRequired, "a valid enterprise license is required")

// licenseCacheKey is used to cache licenses in cluster.Settings.Cache, // keeping the entries private.
type licenseCacheKey string

// TestingEnableEnterprise allows overriding the license check in tests.
func TestingEnableEnterprise() func() {
    before := atomic.LoadInt32(&enterpriseStatus)
    atomic.StoreInt32(&enterpriseStatus, enterpriseEnabled)
    return func() {
        atomic.StoreInt32(&enterpriseStatus, before)
    }
}

// TestingDisableEnterprise allows re-enabling the license check in tests.
func TestingDisableEnterprise() func() {
    before := atomic.LoadInt32(&enterpriseStatus)
    atomic.StoreInt32(&enterpriseStatus, deferToLicense)
    return func() {
        atomic.StoreInt32(&enterpriseStatus, before)
    }
}

// ApplyTenantLicense verifies the COCKROACH_TENANT_LICENSE environment variable // and enables enterprise features for the process. This is a bit of a hack and // should be replaced once it is possible to read the host cluster's // enterprise.license setting.
func ApplyTenantLicense() error {
    license, ok := envutil.EnvString("COCKROACH_TENANT_LICENSE", 0)
    if !ok {
        return nil
    }
    if _, err := decode(license); err != nil {
        return errors.Wrap(err, "COCKROACH_TENANT_LICENSE encoding is invalid")
    }
    atomic.StoreInt32(&enterpriseStatus, enterpriseEnabled)
    return nil
}

// CheckEnterpriseEnabled returns a non-nil error if the requested enterprise // feature is not enabled, including information or a link explaining how to // enable it.
// // This should not be used in hot paths, since an unavailable feature will // result in a new error being instantiated for every call -- use // IsEnterpriseEnabled() instead.
func CheckEnterpriseEnabled(st *cluster.Settings, cluster uuid.UUID, org, feature string) error {
    return checkEnterpriseEnabledAt(st, timeutil.Now(), cluster, org, feature, true /* withDetails */)
}

// IsEnterpriseEnabled returns whether the requested enterprise feature is
// enabled. It is faster than CheckEnterpriseEnabled, since it does not return
// details about why the feature is unavailable, and can therefore be used in
// hot paths.
func IsEnterpriseEnabled(st *cluster.Settings, cluster uuid.UUID, org, feature string) bool {
    return checkEnterpriseEnabledAt(
        st, timeutil.Now(), cluster, org, feature, false /* withDetails */) == nil
}

func init() {
    base.CheckEnterpriseEnabled = CheckEnterpriseEnabled
    base.LicenseType = getLicenseType
    base.TimeToEnterpriseLicenseExpiry = TimeToEnterpriseLicenseExpiry
    server.ApplyTenantLicense = ApplyTenantLicense
}

// TimeToEnterpriseLicenseExpiry returns a Duration from `asOf` until the current
// enterprise license expires. If a license does not exist, we return a
// zero duration.
func TimeToEnterpriseLicenseExpiry(
    ctx context.Context, st *cluster.Settings, asOf time.Time,
) (time.Duration, error) {
    license, err := getLicense(st)
    if err != nil || license == nil {
        return 0, err
    }
    expiration := timeutil.Unix(license.ValidUntilUnixSec, 0)
    return expiration.Sub(asOf), nil
}

func checkEnterpriseEnabledAt(
    st *cluster.Settings, at time.Time, cluster uuid.UUID, org, feature string, withDetails bool,
) error {
    if atomic.LoadInt32(&enterpriseStatus) == enterpriseEnabled {
        return nil
    }
    license, err := getLicense(st)
    if err != nil {
        return err
    }
    return check(license, at, cluster, org, feature, withDetails)
}
// getLicense fetches the license from the given settings, using Settings.Cache
// to cache the decoded license (if any). The returned license must not be
// modified by the caller.
func getLicense(st *cluster.Settings) (*licensecl.License, error) {
    str := enterpriseLicense.Get(&st.SV)
    if str == "" {
        return nil, nil
    }
    cacheKey := licenseCacheKey(str)
    if cachedLicense, ok := st.Cache.Load(cacheKey); ok {
        return cachedLicense.(*licensecl.License), nil
    }
    license, err := decode(str)
    if err != nil {
        return nil, err
    }
    st.Cache.Store(cacheKey, license)
    return license, nil
}

func getLicenseType(st *cluster.Settings) (string, error) {
    license, err := getLicense(st)
    if err != nil {
        return "", err
    } else if license == nil {
        return "None", nil
    }
    return license.Type.String(), nil
}

// decode attempts to read a base64 encoded License.
func decode(s string) (*licensecl.License, error) {
    lic, err := licensecl.Decode(s)
    if err != nil {
        return nil, pgorerror.WithCandidateCode(err, pgcode.Syntax)
    }
    return lic, nil
}

// check returns an error if the license is empty or not currently valid. If
// withDetails is false, a generic error message is returned for performance.
func check(
    l *licensecl.License, at time.Time, cluster uuid.UUID, org, feature string, withDetails bool,
) error {
    if l == nil {
        if !withDetails {
            return errEnterpriseRequired
        }
    }
// TODO(dt): link to some stable URL that then redirects to a helpful page
// that explains what to do here.
link := "https://cockroachlabs.com/pricing?cluster=
return pgerror.Newf(pgcode.CCLValidLicenseRequired,
"use of %s requires an enterprise license. "+
"see %s%s for details on how to enable enterprise features",
errors.Safe(feature),
link,
cluster.String(),
}

// We extend some grace period to enterprise license holders rather than
// suddenly throwing errors at them.
if l.ValidUntilUnixSec > 0 && l.Type != licenseccl.License_Enterprise {
    if expiration := timeutil.Unix(l.ValidUntilUnixSec, 0); at.After(expiration) {
        if !withDetails {
            return errEnterpriseRequired
        }
        licensePrefix := redact.SafeString(""
        switch l.Type {
            case licenseccl.License_NonCommercial:
                licensePrefix = "non-commercial "
            case licenseccl.License_Evaluation:
                licensePrefix = "evaluation "
            }
        return pgerror.Newf(pgcode.CCLValidLicenseRequired,
            "Use of %s requires an enterprise license. Your %slicense expired on %s. If you're "+
            "interested in getting a new license, please contact subscriptions@cockroachlabs.com "+
            "and we can help you out. ",
        errors.Safe(feature),
        licensePrefix,
        expiration.Format("January 2, 2006"),
    )
    }
}

if l.ClusterID == nil {
    if strings.EqualFold(l.OrganizationName, org) {
        return nil
    }
    if !withDetails {
        return errEnterpriseRequired
    }
    return pgerror.Newf(pgcode.CCLValidLicenseRequired,
        "license valid only for %q", l.OrganizationName)}
for _, c := range l.ClusterID {
if cluster == c {
return nil
}
}
// no match, so compose an error message.
if !withDetails {
return errEnterpriseRequired
}
var matches bytes.Buffer
for i, c := range l.ClusterID {
if i > 0 {
matches.WriteString(", ")
}
matches.WriteString(c.String())
}
return pgerror.Newf(pgcode.CCLValidLicenseRequired,
"license for cluster(s) %s is not valid for cluster %s",
matches.String(), cluster.String(),
)
}
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import React from "react";
import step1Img from "assets/nodeMapSteps/1-getLicense.png";
import step2Img from "assets/nodeMapSteps/2-setKey.svg";
import step3Img from "assets/nodeMapSteps/3-seeMap.png";

import { NodeCanvasContainerOwnProps } from "src/views/clusterviz/containers/map/nodeCanvasContainer";
import * as docsURL from "src/util/docs";
import "./needEnterpriseLicense.styl";

function Step(props: { num: number; img: string; children: React.ReactNode }) {
  return (
    <div className="license-step">
      <img src={props.img} className="license-step__image" />
      <div className="license-step__text">
        <span className="license-step__stepnum">Step {props.num}:</span> {props.children}
      </div>
    </div>
  );
}

export default class NeedEnterpriseLicense extends React.Component<NodeCanvasContainerOwnProps> {
  render() {
    return (
      <section className="need-license">
        <div className="need-license-blurb">
          <div>
            <h1 className="base-heading need-license-blurb__header">View the Node Map</h1>
            <p className="need-license-blurb__text">The Node Map shows the geographical layout of your cluster, along with metrics and health indicators. To enable the Node Map, request an</p>
          </div>
        </div>
      </section>
    );
  }
}
Enterprise trial license

and refer to this configuration guide.

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Get a trial license delivered straight to your inbox.

Activate the trial license with two simple SQL commands.

Follow this guide to configure localities and locations.

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// the Business Source License, use of this software will be governed
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package sql

import (
    "context"
    "github.com/cockroachdb/cockroach/pkg/settings"
    "github.com/cockroachdb/cockroach/pkg/sql/pgwire/pgerror"
    "github.com/cockroachdb/cockroach/pkg/sql/pgwire/pgnotice"
    "github.com/cockroachdb/cockroach/pkg/util/log"
)

// NoticesEnabled is the cluster setting that allows users
// to enable notices.
var NoticesEnabled = settings.RegisterBoolSetting("sql.notices.enabled",
    "enable notices in the server/client protocol being sent",
    true,
    ).WithPublic()

// noticeSender is a subset of RestrictedCommandResult which allows
// sending notices.
type noticeSender interface {
    BufferNotice(pgnotice.Notice)
}

// BufferClientNotice implements the tree.ClientNoticeSender interface.
func (p *planner) BufferClientNotice(ctx context.Context, notice pgnotice.Notice) {
    if log.V(2) {
        log.Infof(ctx, "buffered notice: %+v", notice)
    }
    noticeSeverity, ok := pgnotice.ParseDisplaySeverity(pgerror.GetSeverity(notice))
    if !ok {
        noticeSeverity = pgnotice.DisplaySeverityNotice
    }
    if p.noticeSender == nil ||
    noticeSeverity > pgnotice.DisplaySeverity(p.SessionData().NoticeDisplaySeverity) ||
    !NoticesEnabled.Get(&p.execCfg.Settings.SV) {
        // Notice cannot flow to the client - because of one of these conditions:
        // * there is no client
        // * the session's NoticeDisplaySeverity is higher than the severity of the notice.
        // * the notice protocol was disabled
        return
    }
    p.noticeSender.BufferNotice(notice)
}
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// Code generated by protoc-gen-gogo. DO NOT EDIT.
// source: ccl/utilccl/licenseccl/license.proto

package licenseccl

import {
    fmt "fmt"
    github_com_cockroachdb_cockroach_pkg_util_uuid "github.com/cockroachdb/cockroach/pkg/util/uuid"
    _ "github.com/gogo/protobuf/protobuf"
    proto "github.com/gogo/protobuf/protobuf"
    io "io"
    math "math"
    math_bits "math/bits"
}

// Reference imports to suppress errors if they are not otherwise used.
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.GoGoProtoPackageIsVersion3

// Please upgrade the proto package

type License_Type int32

case
License_NonCommercial License_Type = 0
License_Enterprise    License_Type = 1
License_Evaluation    License_Type = 2
)

var License_Type_name = map[int32]string{
0: "NonCommercial",
1: "Enterprise",
2: "Evaluation",
}

var License_Type_value = map[string]int32{
"NonCommercial": 0,
"Enterprise": 1,
"Evaluation": 2,
}

func (x License_Type) String() string {
return proto.EnumName(License_Type_name, int32(x))
}

func (License_Type) EnumDescriptor() ([byte, [int] {0, 0}

func (License) Reset() { *m = License{} }
func (License) String() string { return proto.CompactTextString(m) }
func (*License) ProtoMessage() {}
func (*License) Descriptor() ([byte, [int] {0, 0}

func (m *License) XXX_Unmarshal(b [byte, error { return m.Unmarshal(b)}}
func (m *License) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
    b = b[:cap(b)]
    n, err := m.MarshalToSizedBuffer(b)
    if err != nil {
        return nil, err
    }
    return b[:n], nil
}

func (m *License) XXX_Merge(src proto.Message) {
    xxx_messageInfo_License.Merge(m, src)
}

func (m *License) XXX_Size() int {
    return m.Size()
}

func (m *License) XXX_DiscardUnknown() {
    xxx_messageInfo_License.DiscardUnknown(m)
}

var xxx_messageInfo_License proto.InternalMessageInfo

func init() {
    proto.RegisterEnum("cockroach.ccl.utilccl.licenseccl.License_Type", License_Type_name, License_Type_value)
    proto.RegisterType((*License)(nil), "cockroach.ccl.utilccl.licenseccl.License")
}

func init() {
    proto.RegisterFile("ccl/utilccl/licenseccl/license.proto", fileDescriptor_765066c8b2c94c63)
}

var fileDescriptor_765066c8b2c94c63 = []byte{
    // 362 bytes of a gzipped FileDescriptorProto
    0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x84, 0x91, 0x31, 0x8f, 0xda, 0x30,
    0x1c, 0xc5, 0x63, 0x40, 0xad, 0xb0, 0x5a, 0x14, 0x22, 0x86, 0xa8, 0x83, 0x89, 0x50, 0x87, 0x48,
    0xad, 0x1c, 0xa9, 0x4c, 0x5d, 0x81, 0x4a, 0x45, 0xaa, 0x18, 0xd2, 0x66, 0xe9, 0x12, 0x19, 0xc7,
    0x0a, 0x16, 0x8e, 0x1d, 0x25, 0x36, 0x82, 0x7e, 0x8a, 0x7e, 0x2c, 0xb6, 0x63, 0x44, 0x37, 0xa0,
    0x0b, 0xf0, 0x45, 0x4e, 0x09, 0xe8, 0x60, 0xbb, 0xc9, 0xcf, 0x7a, 0xef, 0xf7, 0x17, 0xff, 0xc9,
    0xf0, 0x33, 0xa5, 0x22, 0x30, 0x9a, 0x8b, 0xfa, 0x14, 0x9c, 0x32, 0x59, 0xb2, 0x3b, 0x89, 0xf3,
    0x42, 0x69, 0x5e, 0x78, 0x54, 0xd1, 0x75, 0xa1, 0x08, 0x5d, 0x61, 0x4a, 0x05, 0xeb, 0xe6, 0xf1,
    0x2d, 0xff, 0x69, 0x90, 0xaa, 0x54, 0x50, 0xe1, 0xa0, 0x56, 0x17, 0xce, 0xf4, 0xd0, 0x82, 0xef,
    0x7f, 0x5d, 0x42, 0x4e, 0xa2, 0x21, 0x15, 0xda, 0xac, 0x89, 0x4f, 0x39, 0x98, 0xfc, 0xc8, 0xc0,
    0x5e, 0x5f, 0xe9, 0x4a, 0x6f, 0x1d, 0xe4, 0xeb, 0xb4, 0x59, 0x33, 0x30, 0x85, 0x27, 0x38,
    0x8a, 0xe6, 0xb3, 0xe0, 0x34, 0xc0, 0x4e, 0x2f, 0x03, 0xe7, 0xb3, 0xb0, 0x7b, 0x9d, 0x3d,
    0x4f, 0x9c, 0x00, 0xe0, 0x36, 0x44, 0xf0, 0xc4, 0x36, 0x52, 0x73, 0x11, 0xb0, 0xb7, 0x71,
    0xc9, 0x8a, 0x0b, 0xe8, 0x0d, 0x80, 0x0e, 0x0f, 0x0d, 0x17, 0x35, 0x56, 0x24, 0x9f, 0x6f, 0x37,
    0xa3, 0x0e, 0x04, 0x76, 0xfe, 0x2e, 0x67, 0x6e, 0xda, 0x03, 0x7e, 0xef, 0x1b, 0xc6, 0x6f, 0x95,
    0xe5, 0xd7, 0x4a, 0xf8, 0xc0, 0x2e, 0x67, 0x61, 0xc3, 0x3a, 0xf5, 0x60, 0xf5, 0x15, 0x29, 0x91,
}
func (m *License) Marshal() (dAtA []byte, err error) {
    size := m.Size()
    dAtA = make([]byte, size)
    n, err := m.MarshalToSizedBuffer(dAtA[:size])
    if err != nil {
        return nil, err
    }
    return dAtA[:n], nil
}

func (m *License) MarshalTo(dAtA []byte) (int, error) {
    size := m.Size()
    return m.MarshalToSizedBuffer(dAtA[:size])
}

func (m *License) MarshalToSizedBuffer(dAtA []byte) (int, error) {
    i := len(dAtA)
    _ = i
    var l int
    _ = l
    if len(m.OrganizationName) > 0 {
        i -= len(m.OrganizationName)
        copy(dAtA[i:], m.OrganizationName)
        i--
        dAtA[i] = 0x22
    }
    if m.Type != 0 {
        i = encodeVarintLicense(dAtA, i, uint64(m.Type))
        i--
        dAtA[i] = 0x18
    }
    if m.ValidUntilUnixSec != 0 {
        i = encodeVarintLicense(dAtA, i, uint64(m.ValidUntilUnixSec))
        i--
        dAtA[i] = 0x10
    }
    if len(m.ClusterID) > 0 {
        for iNdEx := len(m.ClusterID) - 1; iNdEx >= 0; iNdEx-- {  
        }
func sovLicense(x uint64) (n int) {
    return (math_bits.Len64(x|1) + 6) / 7
}
func sozLicense(x uint64) (n int) {
    return sovLicense(uint64((x << 1) ^ uint64((int64(x) >> 63))))
}
func (m *License) Unmarshal(dAtA []byte) error {
    l := len(dAtA)
    iNdx := 0
    for iNdx < l {
        preIndex := iNdx
        var wire uint64
        for shift := uint(0); ; shift += 7 {
            if shift >= 64 {
                return ErrIntOverflowLicense
            }
            if iNdEx >= l {
                return io.ErrUnexpectedEOF
            }
            b := dAtA[iNdEx]
            iNdEx++
            wire |= uint64(b&0x7F) << shift
            if b < 0x80 {
                break
            }
        }
        fieldNum := int32(wire >> 3)
        wireType := int(wire & 0x7)
        if wireType == 4 {
            return fmt.Errorf("proto: License: wiretype end group for non-group")
        }
        if fieldNum <= 0 {
            return fmt.Errorf("proto: License: illegal tag %d (wire type %d)", fieldNum, wireType)
        }
        switch fieldNum {
        case 1:
            if wireType != 2 {
                return fmt.Errorf("proto: wrong wireType = %d for field ClusterID", wireType)
            }
            var byteLen int
            for shift := uint(0); ; shift += 7 {
                if shift >= 64 {
                    return ErrIntOverflowLicense
                }
                if iNdx >= l {
                    return io.ErrUnexpectedEOF
                }
                b := dAtA[iNdEx]
                iNdEx++
                byteLen |= int(b&0x7F) << shift
                if b < 0x80 {
                    break
                }
            }
        }...
    }
return io.ErrUnexpectedEOF
}
b := dAtA[iNdEx]
iNdEx++
byteLen |= int(b&0x7F) << shift
if b < 0x80 {
    break
}
}
if byteLen < 0 {
    return ErrInvalidLengthLicense
}
postIndex := iNdEx + byteLen
if postIndex < 0 {
    return ErrInvalidLengthLicense
}
if postIndex > l {
    return io.ErrUnexpectedEOF
}
var v github_com_cockroachdb_cockroach_pkg_util_uuid.UUID
m.ClusterID = append(m.ClusterID, v)
if err := m.ClusterID[len(m.ClusterID)-1].Unmarshal(dAtA[iNdEx:postIndex]); err != nil {
    return err
}
iNdEx = postIndex
case 2:
    if wireType != 0 {
        return fmt.Errorf("proto: wrong wireType = %d for field ValidUntilUnixSec", wireType)
    }
    m.ValidUntilUnixSec = 0
    for shift := uint(0); ; shift += 7 {
        if shift >= 64 {
            return ErrIntOverflowLicense
        }
        if iNdEx >= 1 {
            return io.ErrUnexpectedEOF
        }
b := dAtA[iNdEx]
iNdEx++
m.ValidUntilUnixSec |= int64(b&0x7F) << shift
if b < 0x80 {
    break
}
}
case 3:
    if wireType != 0 {
        return fmt.Errorf("proto: wrong wireType = %d for field Type", wireType)
    }
m.Type = 0
for shift := uint(0); ; shift += 7 {
  if shift >= 64 {
    return ErrIntOverflowLicense
  }
  if iNdEx >= 1 {
    return io.ErrUnexpectedEOF
  }
  b := dAtA[iNdEx]
  iNdEx++
  m.Type |= License_Type(b&0x7F) << shift
  if b < 0x80 {
    break
  }
}
case 4:
  if wireType != 2 {
    return fmt.Errorf("proto: wrong wireType = %d for field OrganizationName", wireType)
  }
  var stringLen uint64
  for shift := uint(0); ; shift += 7 {
    if shift >= 64 {
      return ErrIntOverflowLicense
    }
    if iNdEx >= l {
      return io.ErrUnexpectedEOF
    }
    b := dAtA[iNdEx]
    iNdEx++
    stringLen |= uint64(b&0x7F) << shift
    if b < 0x80 {
      break
    }
  }
  intStringLen := int(stringLen)
  if intStringLen < 0 {
    return ErrInvalidLengthLicense
  }
  postIndex := iNdEx + intStringLen
  if postIndex < 0 {
    return ErrInvalidLengthLicense
  }
  if postIndex > l {
    return io.ErrUnexpectedEOF
  }
  m.OrganizationName = string(dAtA[iNdEx:postIndex])
  iNdEx = postIndex
  default:
iNdEx = preIndex
skippy, err := skipLicense(dAtA[iNdEx:])
if err != nil {
    return err
}
if (skippy < 0) || (iNdEx+skippy) < 0 {
    return ErrInvalidLengthLicense
}
if (iNdEx + skippy) > l {
    return io.ErrUnexpectedEOF
}
iNdEx += skippy
}

if iNdEx > l {
    return io.ErrUnexpectedEOF
}
return nil

func skipLicense(dAtA []byte) (n int, err error) {
    l := len(dAtA)
iNdEx := 0
    depth := 0
    for iNdEx < l {
        var wire uint64
        for shift := uint(0); ; shift += 7 {
            if shift >= 64 {
                return 0, ErrIntOverflowLicense
            }
            if iNdEx >= l {
                return 0, io.ErrUnexpectedEOF
            }
            b := dAtA[iNdEx]
            iNdEx++
            wire |= (uint64(b) & 0x7F) << shift
            if b < 0x80 {
                break
            }
        }
        wireType := int(wire & 0x7)
        switch wireType {
        case 0:
            for shift := uint(0); ; shift += 7 {
                if shift >= 64 {
                    return 0, ErrIntOverflowLicense
                }
                if iNdEx >= l {
                    break
                }
                wireType := int(wire & 0x7)
                switch wireType {
                case 0:
                    for shift := uint(0); ; shift += 7 {
                        if shift >= 64 {
                            return 0, ErrIntOverflowLicense
                        }
                        if iNdEx >= l {
return 0, io.ErrUnexpectedEOF
}
iNdEx++
if dAtA[iNdEx-1] < 0x80 {
    break
}
}
case 1:
iNdEx += 8

case 2:
    var length int
    for shift := uint(0); ; shift += 7 {
        if shift >= 64 {
            return 0, ErrIntOverflowLicense
        }
        if iNdEx >= l {
            return 0, io.ErrUnexpectedEOF
        }
        b := dAtA[iNdEx]
        iNdEx++
        length |= (int(b) & 0x7F) << shift
        if b < 0x80 {
            break
        }
    }
    if length < 0 {
        return 0, ErrInvalidLengthLicense
    }
    iNdEx += length

case 3:
    depth++

case 4:
    if depth == 0 {
        return 0, ErrUnexpectedEndOfGroupLicense
    }
    depth--

case 5:
    iNdEx += 4

default:
    return 0, fmt.Errorf("proto: illegal wireType %d", wireType)
}
if iNdEx < 0 {
    return 0, ErrInvalidLengthLicense
}
if depth == 0 {
    return iNdEx, nil
}
return 0, io.ErrUnexpectedEOF
}

type
var ( 
ErrInvalidLengthLicense        = fmt.Errorf("proto: negative length found during unmarshaling")
ErrIntOverflowLicense          = fmt.Errorf("proto: integer overflow")
ErrUnexpectedEndOfGroupLicense = fmt.Errorf("proto: unexpected end of group")
)

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package utilccl

import (  "fmt"  "testing"  "time"

)

func TestLicense(t *testing.T) {
    clusterA, _ := uuid.FromString("A0000000-0000-0000-0000-00000000000A")
    clusterB, _ := uuid.FromString("B0000000-0000-0000-0000-00000000000B")

    clustersA, clustersB := []uuid.UUID{clusterA}, []uuid.UUID{clusterB}

    t0 := timeutil.Unix(0, 0)
    ts := t0.AddDate(40, 0, 0)
    after := ts.Add(time.Hour * 24)
    before := ts.Add(time.Hour * -24)
    wayAfter := ts.Add(time.Hour * 24 * 365 * 200)

    for i, tc := range []struct {  licType licenseccl.License_Type  grantedTo []uuid.UUID}

expiration time.Time
checkCluster uuid.UUID
checkOrg string
checkTime time.Time
err string

{}
{licType: -1, err: "requires an enterprise license"},
{licenseccl.License_Evaluation, clustersA, ts, clusterA, "", ts, ""},
{licenseccl.License_Enterprise, clustersA, ts, clusterA, "", ts, ""},
{licenseccl.License_NonCommercial, clustersA, ts, clusterA, "", ts, ""},
{licenseccl.License_Evaluation, clustersA, after, clusterA, "", ts, ""},
{licenseccl.License_Evaluation, clustersA, ts, clusterA, "", before, ""},
{licenseccl.License_Evaluation, clustersA, wayAfter, clusterA, "", ts, ""},

// expirations.
{licenseccl.License_Evaluation, clustersA, ts, clusterA, "", after, "expired"},
{licenseccl.License_Evaluation, clustersA, after, clusterA, "", wayAfter, "expired"},
{licenseccl.License_NonCommercial, clustersA, after, clusterA, "", wayAfter, "expired"},
{licenseccl.License_NonCommercial, clustersA, t0, clusterA, "", wayAfter, ""},
{licenseccl.License_Evaluation, clustersA, t0, clusterA, "", wayAfter, ""},

// grace period.
{licenseccl.License_Enterprise, clustersA, after, clusterA, "", wayAfter, ""},

// mismatch.
{licenseccl.License_Enterprise, clustersA, ts, clusterB, "", ts, "not valid for cluster"},
{licenseccl.License_Enterprise, clustersB, ts, clusterA, "", ts, "not valid for cluster"},
{licenseccl.License_Enterprise, append(clustersB, clusterA), ts, clusterA, "", ts, ""},
{licenseccl.License_Enterprise, nil, ts, clusterA, "", ts, "license valid only for"},
{licenseccl.License_Enterprise, nil, ts, clusterA, "tc-17", ts, ""},

} var lic *licenseccl.License
if tc.licType != -1 {
    s, err := (&licenseccl.License{
        ClusterID: tc.grantedTo,
        ValidUntilUnixSec: tc.expiration.Unix(),
        Type: tc.licType,
        OrganizationName: fmt.Sprintf("tc-%d", i),
    }).Encode()
    if err != nil {
        t.Fatal(err)
    }
    lic, err = decode(s)
    if err != nil {
        t.Fatal(err)
    }
}
if err := check(lic, tc.checkTime, tc.checkCluster, tc.checkOrg, ",", true,)
); !testutils.IsError(err, tc.err) {
t.Fatal("%d: lic for %s to %s, checked by %s at %s
 got %q", i,
tc.grantedTo, tc.expiration, tc.checkCluster, tc.checkTime, err)
}
}

func TestBadLicenseStrings(t *testing.T) {
for _, tc := range []struct{
lic, err string
}{
"blah", "invalid license string"},
{"crl-0-&&&&", "invalid license string"},
{"crl-0-blah", "invalid license string"},
} {
if _, err := decode(tc.lic); !testutils.IsError(err, tc.err) {
t.Fatal("%q: expected err %q, got %v", tc.lic, tc.err, err)
}
}
}

func TestExpiredLicenseLanguage(t *testing.T) {
lic := &licenseccl.License{
Type: licenseccl.License_Evaluation,
ValidUntilUnixSec: 1,
}
err := check(lic, timeutil.Now(), uuid.MakeV4(), "", "RESTORE", true)
expected := "Use of RESTORE requires an enterprise license. Your evaluation license expired on " +
"January 1, 1970. If you're interested in getting a new license, please contact " +
"subscriptions@cockroachlabs.com and we can help you out."
if err == nil || err.Error() != expected {
t.Fatal("expected err:
%q

got:
%v", expected, err)
}
}

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//
// https://github.com/cockroachdb/cockroach/blob/master/licenses/CCL.txt

package utilccl

import (　
"context"
"testing"
"time"
func TestSettingAndCheckingLicense(t *testing.T) {
    idA, _ := uuid.FromString("A0000000-0000-0000-0000-00000000000A")
    idB, _ := uuid.FromString("B0000000-0000-0000-0000-00000000000B")

    ctx := context.Background()
t0 := timeutil.Unix(0, 0)

    licA, _ := (&licenseccl.License{
        ClusterID: []uuid.UUID{idA},
        Type:      licenseccl.License_Enterprise,
        ValidUntilUnixSec: t0.AddDate(0, 1, 0).Unix(),
    }).Encode()

    licB, _ := (&licenseccl.License{
        ClusterID: []uuid.UUID{idB},
        Type:      licenseccl.License_Evaluation,
        ValidUntilUnixSec: t0.AddDate(0, 2, 0).Unix(),
    }).Encode()

    st := cluster.MakeTestingClusterSettings()

    for i, tc := range []struct {
        lic     string
        checkCluster uuid.UUID
        checkTime time.Time
        err      string
    }{
        "", idA, t0, "requires an enterprise license"},
        licA, idA, t0, ""},
        "", idA, t0, "requires an enterprise license"},
        "", idA, t0, "not valid for cluster"},
        licB, idA, t0, ""},
        "", idA, t0, "requires an enterprise license"},
func TestGetLicenseTypePresent(t *testing.T) {
    ctx := context.Background()
    for _, tc := range []struct {
        licenseType licenseccl.License_Type
        expected    string
    }{
        {licenseccl.License_NonCommercial, "NonCommercial"},
        {licenseccl.License_Enterprise, "Enterprise"},
        {licenseccl.License_Evaluation, "Evaluation"},
    } {
        st := cluster.MakeTestingClusterSettings()
        updater := st.MakeUpdater()
        lic, _ := (&licenseccl.License{
            ClusterID:       []uuid.UUID{ },
            Type:            tc.licenseType,
            ValidUntilUnixSec: 0,
        }).Encode()
        if err := updater.Set(ctx, "enterprise.license", lic, "s"); err != nil {
            t.Fatal(err)
        }
        actual, err := getLicenseType(st)
        if err != nil {
            t.Fatal(err)
        }
        if actual != tc.expected {
            t.Fatalf("expected license type %s, got %s", tc.expected, actual)
        }
    }
}

func TestGetLicenseTypeAbsent(t *testing.T) {
    expected := "None"
    actual, err := getLicenseType(cluster.MakeTestingClusterSettings())
    if err != nil {
        t.Fatal(err)
    }
    if actual != expected {
        t.Fatalf("expected license type %s, got %s", expected, actual)
    }
}

}
if actual != expected {
t.Fatalf("expected license type %s, got %s", expected, actual)
}
}
func TestSettingBadLicenseStrings(t *testing.T) {
ctx := context.Background()
for _, tc := range []struct{ lic, err string }{
{"blah", "invalid license string"},
{"cl-0-blah", "invalid license string"},
}{
st := cluster.MakeTestingClusterSettings()
u := st.MakeUpdater()
if err := u.Set(ctx, "enterprise.license", tc.lic, "s"); !testutils.IsError(
err, tc.err,
){
t.Fatalf("%q: expected err %q, got %v", tc.lic, tc.err, err)
}
}
}
func TestTimeToEnterpriseLicenseExpiry(t *testing.T) {
ctx := context.Background()
id, _ := uuid.FromString("A0000000-0000-0000-0000-00000000000A")
t0 := timeutil.Unix(1603926294, 0)
lic1M, _ := (&licenseccl.License{
ClusterID:
[]uuid.UUID{id},
Type:
licenseccl.License_Enterprise,
ValidUntilUnixSec: t0.AddDate(0, 1, 0).Unix(),
}).Encode()
lic2M, _ := (&licenseccl.License{
ClusterID:
[]uuid.UUID{id},
Type:
licenseccl.License_Evaluation,
ValidUntilUnixSec: t0.AddDate(0, 2, 0).Unix(),
}).Encode()
lic0M, _ := (&licenseccl.License{
ClusterID:
[]uuid.UUID{id},
Type:
licenseccl.License_Evaluation,
ValidUntilUnixSec: t0.AddDate(0, 0, 0).Unix(),
}).Encode()
licExpired, _ := (&licenseccl.License{

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ClusterID:          []uuid.UUID{id},
Type:              licenseccl.License_Evaluation,
ValidUntilUnixSec: t0.AddDate(0, -1, 0).Unix(),
}.Encode()

st := cluster.MakeTestingClusterSettings()
updater := st.MakeUpdater()

for _, tc := range []struct {
    desc     string
    lic      string
    ttlHours float64
}
{
    "One Month", lic1M, 24 * 31],
    "Two Month", lic2M, 24*31 + 24*30],
    "Zero Month", lic0M, 0],
    "Expired", licExpired, -24 * 30],
    "No License", "", 0],
} {
    t.Run(tc.desc, func(t *testing.T) {
        if err := updater.Set(ctx, "enterprise.license", tc.lic, "s"); err != nil {
            t.Fatal(err)
        }
    })

    actual, err := TimeToEnterpriseLicenseExpiry(context.Background(), st, t0)
    if err != nil {
        t.Fatal(err)
    }

    require.Equal(t, tc.ttlHours, actual.Hours())
}

func TestApplyTenantLicenseWithLicense(t *testing.T) {
    license, _ := (&licenseccl.License{
        Type: licenseccl.License_Enterprise,
    }).Encode()

    defer TestingDisableEnterprise()
    defer envutil.TestSetEnv(t, "COCKROACH_TENANT_LICENSE", license)()

    settings := cluster.MakeClusterSettings()

    require.Error(t, CheckEnterpriseEnabled(settings, uuid.MakeV4(), "", "")
    require.False(t, IsEnterpriseEnabled(settings, uuid.MakeV4(), "", "")
    require.NoError(t, ApplyTenantLicense())
    require.NoError(t, CheckEnterpriseEnabled(settings, uuid.MakeV4(), "", ""))
require.True(t, IsEnterpriseEnabled(settings, uuid.MakeV4(), "", ""))
}

func TestApplyTenantLicenseWithoutLicense(t *testing.T) {
    defer TestingDisableEnterprise()()

    settings := cluster.MakeClusterSettings()
    _, ok := envutil.EnvString("COCKROACH_TENANT_LICENSE", 0)
    envutil.ClearEnvCache()
    require.False(t, ok)

    require.Error(t, CheckEnterpriseEnabled(settings, uuid.MakeV4(), "", ""))
    require.False(t, IsEnterpriseEnabled(settings, uuid.MakeV4(), "", ""))
    require.NoError(t, ApplyTenantLicense())
    require.Error(t, CheckEnterpriseEnabled(settings, uuid.MakeV4(), "", ""))
    require.False(t, IsEnterpriseEnabled(settings, uuid.MakeV4(), "", ""))
}

func TestApplyTenantLicenseWithInvalidLicense(t *testing.T) {
    defer envutil.TestSetEnv(t, "COCKROACH_TENANT_LICENSE", "THIS IS NOT A VALID LICENSE")()
    require.Error(t, ApplyTenantLicense())
}

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// https://github.com/cockroachdb/cockroach/blob/master/licenses/CCL.txt

go package licenseccl

import (  
    "encoding/base64"  
    "strings"  
    "github.com/cockroachdb/cockroach/pkg/util/protoutil"  
    "github.com/cockroachdb/errors"
)

// LicensePrefix is a prefix on license strings to make them easily recognized.
const LicensePrefix = "crl-0-"

// Encode serializes the License as a base64 string.
func (l *License) Encode() (string, error) {  
    bytes, err := protoutil.Marshal(l)  
    if err != nil {  
        return "", err  
    }  
    return LicensePrefix + base64.RawStdEncoding.EncodeToString(bytes), nil
}

// Decode attempts to read a base64 encoded License.
func Decode(s string) (*License, error) {  
    if s == "" {  
        return nil, nil  
    }
if !strings.HasPrefix(s, LicensePrefix) {
return nil, errors.New("invalid license string")
}
s = strings.TrimPrefix(s, LicensePrefix)
data, err := base64.RawStdEncoding.DecodeString(s)
if err != nil {
return nil, errors.Wrap(err, "invalid license string")
}
var lic License
if err := protoutil.Unmarshal(data, &lic); err != nil {
return nil, errors.Wrap(err, "invalid license string")
}
return &lic, nil

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//   https://github.com/cockroachdb/cockroach/blob/master/licenses/CCL.txt

@require '~styl/base/palette.styl'

.need-license
  padding-left 70px
  padding-right 70px
  padding-top 70px
  padding-bottom 30px

.need-license-blurb
  margin-bottom 30px
  display flex
  justify-content space-between
  align-items flex-start

a
  color $link-color
  text-decoration none

__header
  text-transform none
  letter-spacing normal

__text
  margin-top 20px
  width 470px
  line-height 26px
PostgreSQL Database Management System
(formerly known as Postgres, then as Postgres95)

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1.637 jinja2 2.11.3

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Metadata-Version: 2.1
Name: Jinja2
Version: 2.11.3
Summary: A very fast and expressive template engine.
Home-page: https://palletsprojects.com/p/jinja/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
License: BSD-3-Clause
Project-URL: Code, https://github.com/pallets/jinja
Description: Jinja

Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.
It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

Installing
--------

Install and update using `pip`:

.. code-block:: text

    $ pip install -U Jinja2


In A Nutshell
-------------

.. code-block:: jinja

    {% extends "base.html" %}
    {% block title %}Members{% endblock %}
    {% block content %}
    <ul>
    {% for user in users %}
    <li><a href="{{ user.url }}">{{ user.username }}</a></li>
    {% endfor %}
    </ul>
    {% endblock %}
Links
-----
- Website: https://palletsprojects.com/p/jinja/
- Documentation: https://jinja.palletsprojects.com/
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Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Programming Language :: Python :: 3.8
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: Text Processing :: Markup :: HTML
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*
Description-Content-Type: text/x-rst
Provides-Extra: i18n

Found in path(s):
* /opt/cola/permits/1160876753_1620411588.74/0/jinja2-2-11-3-1-tar-gz/Jinja2-2.11.3/PKG-INFO
* /opt/cola/permits/1160876753_1620411588.74/0/jinja2-2-11-3-1-tar-gz/Jinja2-2.11.3/src/Jinja2.egg-info/PKG-INFO

No license file was found, but licenses were detected in source scan.

import io
import re

from setuptools import find_packages
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
readme = f.read()

with io.open("src/jinja2/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r"__version__ = "(.*)", f.read(), re.M).group(1)

setup(
    name="Jinja2",
    version=version,
    url="https://palletsprojects.com/p/jinja/",
    project_urls={
        "Documentation": "https://jinja.palletsprojects.com/",
        "Code": "https://github.com/pallets/jinja",
        "Issue tracker": "https://github.com/pallets/jinja/issues",
    },
    license="BSD-3-Clause",
    author="Armin Ronacher",
    author_email="armin.ronacher@active-4.com",
    maintainer="Pallets",
    maintainer_email="contact@palletsprojects.com",
    description="A very fast and expressive template engine.",
    long_description=readme,
    classifiers=[
        "Development Status :: 5 - Production/ Stable",
        "Environment :: Web Environment",
        "Intended Audience :: Developers",
        "License :: OSI Approved :: BSD License",
        "Operating System :: OS Independent",
        "Programming Language :: Python",
        "Programming Language :: Python :: 2",
        "Programming Language :: Python :: 2.7",
        "Programming Language :: Python :: 3",
        "Programming Language :: Python :: 3.5",
        "Programming Language :: Python :: 3.6",
        "Programming Language :: Python :: 3.7",
        "Programming Language :: Python :: 3.8",
        "Programming Language :: Python :: Implementation :: CPython",
        "Programming Language :: Python :: Implementation :: PyPy",
        "Topic :: Internet :: WWW/HTTP :: Dynamic Content",
        "Topic :: Software Development :: Libraries :: Python Modules",
        "Topic :: Text Processing :: Markup :: HTML",
    ],
    packages=find_packages("src"),
    package_dir={":" : "src"},
    include_package_data=True,
    python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
    install_requires=['MarkupSafe>=0.23'],
    extras_require={'i18n': ['Babel>=0.8']},
    entry_points={"babel.extractors": ['jinja2 = jinja2.ext:babel_extract[i18n]']},
1.638 findutils 4.6.0
1.638.1 Available under license :

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Version 3, 29 June 2007

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That's all there is to it!
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William Orr <will@worrbase.com>
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1.642 protobuf 3.6.1-1.ph3

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1.643 coredns-coredns 1.1.2
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1.644 go-spanner 1.5.1
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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
}
  
if ext := filepath.Ext(path); ext != `.go` && ext != `.proto` {  
return nil
 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
    }
}
return nil

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1.645 alpine-baselayout 3.2.0-r8

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1.651 modern-go-concurrent 0.0.0-20180306012644-bacd9c7ef1dd

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1.659 golang-protobuf-extensions 1.0.1

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1.661 libbsd 0.7.0

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This code is derived from section 17.1 of Applied Cryptography, second edition, which describes a stream cipher allegedly compatible with RSA Labs "RC4" cipher (the actual description of which is a trade secret). The same algorithm is used as a stream cipher called "arcfour" in Tatu Ylonen's ssh package.

Here the stream cipher has been modified always to include the time when initializing the state. That makes it impossible to regenerate the same random sequence twice, so this can't be used for encryption, but will generate good random numbers.

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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.

To compute the message digest of a chunk of bytes, declare an MD5Context structure, pass it to MD5Init, call MD5Update as needed on buffers full of bytes, and then call MD5Final, which will fill a supplied 16-byte array with the digest.

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* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_convert.h
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* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_mfiles.h
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1.672 mini-xm 2.9
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September 18, 2010

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# The names of individuals who have contributed to this project.
#
# Names are formatted as:
#   name <email>
#
Ace Nassri <anassri@google.com>
Colin Ihrig <cjihrig@gmail.com>
Cristian Almstrand <almstrand@users.noreply.github.com>
Dave Gramlich <callmehiphop@gmail.com>
Eric Uldall <ericulddall@gmail.com>
Ernest Landrito <landrito@google.com>
Frank Natividad <frankyn@users.noreply.github.com>
Jason Dobry <jason.dobry@gmail.com>
Jason Dobry <jmdobry@users.noreply.github.com>
Justin Sprigg <justin.sprigg@gmail.com>
Luke Sneeringer <luke@sneeringer.com>
Stephen <stephenplusplus@users.noreply.github.com>
Stephen Sawchuk <sawchuk@gmail.com>
Stephen Sawchuk <stephenplusplus@users.noreply.github.com>
Zach Bjornson <bjornson@stanford.edu>
greenkeeper[bot] <greenkeeper[bot]@users.noreply.github.com>
1.677 cracklib 2.9.1
1.677.1 Available under license:

----------
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
> -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 didnt notice the license=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=20
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =20
a=20
library to dictact to application writes what license they should be using.=20
=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...
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 didnt notice the
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>
> unlike the old license, GPL-2 prevents people from using cracklib
unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
place of a
> library to dictact 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...
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,
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 Fry sing er <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.

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

Happy now? :-}
GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

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[This is the first released version of the Lesser GPL.  It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

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with the library after making changes to the library and recompiling
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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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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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   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.)

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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,
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which the executable runs, unless that component itself accompanies
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It may happen that this requirement contradicts the license
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use both them and the Library together in an executable that you
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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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* Part No: 816-1331-11
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Network Working Group  H. Krawczyk
Request for Comments: 2104  IBM
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1.680 smbus2 0.3.0

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# Contributions to the urllib3 project

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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/@WBRSRIBZDhBFXQB6/>
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* kennethreitz <me@kennethreitz.com>
* Bugfixes, suggestions, Requests integration

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* studer <theo.studer@gmail.com>
* IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
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* Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
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* 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.

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* 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 <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 <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>
  * HttpHeadersDict 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 <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

* 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()`.

* 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.

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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bzip2/libbzip2 version 1.0.4 of 20 December 2006

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---

layout: api
page_title: /sys/license - HTTP API
description: |
The `/sys/license` endpoint is used to view and update the license used in
Vault.
---

# `/sys/license`

`GET` `/sys/license`

### Sample Request

```shell-session
```
$ curl \
   --header "X-Vault-Token: ..." \
   http://127.0.0.1:8200/v1/sys/license 
```
```
### Sample Response
```json
{
  "data": {
    "expiration_time": "2017-11-14T16:34:36.546753-05:00",
    "features": ["UI", "HSM", "Performance Replication", "DR Replication"],
    "license_id": "temporary",
    "start_time": "2017-11-14T16:04:36.546753-05:00"
  },
  "warnings": ["time left on license is 29m33s"]
}
```
## Read Signed License
-> This API is deprecated as of Vault 1.8 and will be removed in a future version of Vault. Please use [license autoloading](/docs/enterprise/license/autoloading) instead.

This endpoint returns the signed license blob for the currently installed license.

<table>
<thead>
<tr>
<th align="left">Method</th>
<th align="left">Path</th>
</tr>
</thead>
<tbody>
<tr>
<td align="left"><code>GET</code></td>
<td align="left"><code>/sys/license/signed</code></td>
</tr>
</tbody>
</table>

### Sample Request
```shell-session
$ curl \
   --header "X-Vault-Token: ..." \
   http://127.0.0.1:8200/v1/sys/license/signed 
```
### Sample Response
```json
{
  "data": {
    "signed": "01ABCDEFG..."
  }
}
```

## Install License

-> This API is deprecated as of Vault 1.8 and will be removed in a future version of Vault. Please use [license autoloading](/docs/enterprise/license/autoloading) instead.

This endpoint is used to install a license into Vault. The license will be replicated to the Vault instances within the targeted cluster, but will not replicate the license to a [performance replication](/docs/enterprise/replication) cluster. To license a performance replication cluster, this must be run against a Vault instance within that cluster.

<table>
<thead>
<tr>
<th align="left">Method</th>
<th align="left">Path</th>
</tr>
</thead>
<tbody>
<tr>
<td align="left"><code>PUT</code></td>
<td align="left"><code>/sys/license</code></td>
</tr>
</tbody>
</table>

### Parameters

- `text` *(string: **required**)*  The text of the license.

_Dr Secondary Specific Parameters_

- `dr_operation_token` *(string: **required**)*  - DR operation token used to authorize this request.

Note that this is the legacy mechanism for providing a DR operation token. It is equally valid to provide the DR operation token in the `X-Vault-Token` header, as with a regular vault token.

If you are using a batch `dr_operation_token`, note you will need to add the following to the token's policy

````
```
```
```json
{
  "text": "01ABCDEFG..."
}
```
```

### Sample Request

```shell-session
$ curl 
   --header "X-Vault-Token: ..." 
   --request PUT 
   --data @payload.json 
   http://127.0.0.1:8200/v1/sys/license
```
### Delete License

 ~> This API is deprecated as of Vault 1.8 and will be removed in a future version of Vault. Please use [license autoloading](/docs/enterprise/license/autoloading) instead.

This endpoint is used to delete a stored license in Vault. This will return an error unless license autoloading is in use.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>DELETE</code></td>
<td><code>/sys/license</code></td>
</tr>
</tbody>
</table>

#### Sample Request

```
shell-session
$ curl \\
  --header "X-Vault-Token: ..." \\
  --request DELETE \\
  http://127.0.0.1:8200/v1/sys/license
```

### License Status

This endpoint returns information about licensing. It returns similar information to a GET of `/sys/license`, but whereas that endpoint reports solely on the license Vault is currently using, this one reports on all licensing information the Vault cluster has. See [license autoloading](/docs/enterprise/license/autoloading) for background.

In the response:
* `autoloading_used` will be true if an autoloaded license was provided to the node, false otherwise.
* `autoloaded` is the autoloaded license if `autoloading_used` is true.
* `persisted_autoload` is the autoloaded license the active node last wrote to storage; this is only used to detect inconsistently licensed nodes in the cluster. It cannot be used as a license itself.
* `stored` is the stored license if any, i.e. one written using `PUT sys/license`.

`autoloaded`, `persisted_autoload`, and `stored` all have the same structure, which is also the same structure as the top-level `data` returned by `GET sys/license`.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td><code>/sys/license/status</code></td>
</tr>
</tbody>
</table>
### Sample Request

```shell-session
$ curl \
   --header "X-Vault-Token: ..." \
   http://127.0.0.1:8200/v1/sys/license/status \
```

### Sample Response

```json
{
  "data": {
    "autoloading_used": true,
    "autoloaded": {
      "expiration_time": "2022-05-17T23:59:59.999Z",
      "features": [
        "HSM",
        "Performance Replication",
        "DR Replication",
        "MFA",
        "Sentinel",
        "Seal Wrapping",
        "Control Groups",
        "Performance Standby",
        "Namespaces",
        "KMIP",
        "Entropy Augmentation",
        "Transform Secrets Engine",
        "Lease Count Quotas",
        "Key Management Secrets Engine",
        "Automated Snapshots"
      ],
      "license_id": "060d7820-fa59-f95c-832b-395db0aeb9ba",
      "performance_standby_count": 9999,
      "start_time": "2021-05-17T00:00:00Z"
    },
    "persisted_autoload": {
      "expiration_time": "2022-05-17T23:59:59.999Z",
      "features": [
        "HSM",
        "Performance Replication",
        "DR Replication",
        "MFA",
        "Sentinel",
        "Seal Wrapping",
        "Control Groups",
        "Performance Standby",
```
The "license" command groups subcommands for interacting with Vault licenses.

## Examples

Query current license in use by a node:

```shell-session
$ vault license get
Key    Value
---    ----- 
expiration_time 2022-05-17T23:59:59.999Z
features        [HSM Performance Replication DR Replication MFA Sentinel Seal Wrapping Control Groups Performance Standby Namespaces KMIP Entropy Augmentation Transform Secrets Engine Lease Count Quotas Key Management Secrets Engine Automated Snapshots]```
license_id
060d7820-fa59-f95c-832b-395db0aeb9ba
performance_standby_count 9999
start_time
2021-05-17T00:00:00Z
```
Query signed license string (only when using a deprecated stored license)
```shell-session
$ vault license get -signed
02MV4UU43BK5H...
```
Inspect a signed a license string:
```shell-session
$ vault license inspect ~/vaults/license
Source: /Users/ncc/vaults/license
Product: vault
License ID: 060d7820-fa59-f95c-832b-395db0aeb9ba
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
Installation ID: *
Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
Start Time: 2021-05-17 00:00:00 +0000 UTC
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC
{"license_id":"060d7820-fa59-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43432927fa03e7","installation_id":"*","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-0517T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{"modules":["multi-dc-scale","governancepolicy","advanced-data-protection"]},"features":["HSM","Performance Replication","DR
Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance
Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key
Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}
License is valid
```
## Usage
```text
Usage: vault license <subcommand> [options] [args]
# ...
Subcommands:
get
Query Vault's license
inspect View the contents of a license string
```

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For more information, examples, and usage about a subcommand, click on the name of the subcommand in the sidebar.

---

layout: docs
page_title: Vault Enterprise License
description: An overview of license.
---

# Vault License

Licenses and EULA enhancements have been introduced in Vault 1.8 release. Please refer to the [FAQ](/docs/enterprise/license/faq) for common questions concerning these changes.

The [Install a HashiCorp Enterprise License](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=vault/enterprise) tutorial provides the instruction to load your Vault license.

---

layout: docs
page_title: license inspect - Command
description: |

The "license inspect" command describes the contents of a signed license string.
---

# license inspect

The `license inspect` command describes the contents of a signed license string.

## Examples

Describe license in the environment (either `VAULT_LICENSE` for a raw value or `VAULT_LICENSE_PATH` for the path to a file containing the value):

```
```sh
shell-session

$ vault license inspect

Source: /Users/ncc/vaults/license

Product: vault

License ID: 060d7820-f95c-832b-395db0aeb9ba
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
Installation ID: *

Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
Start Time: 2021-05-17 00:00:00 +0000 UTC
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC

{"license_id":"060d7820-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43-432927fa03e7","installation_id":"*","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-05-17T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{"modules":["multi-dc-scale","governance-policy","advanced-data-protection"]},"features":[]}
```

"HSM","Performance Replication","DR Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key Management Secrets Engine","Automated Snapshots", "performance_standby_count":9999}
License is valid
```
```

Describe license at given path:
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### Q: When will these licensing changes be released for Vault?

The licensing and end-user license agreement (EULA) changes will be available with Vault 1.8-RC1 on June 16, 2021. Vault 1.8 is targeted to release on July 28, 2021.

### Q: Will these license changes impact HCP Vault?

No, these changes will not impact HCP Vault.

### Q: Do these license changes impact all Vault customers/licenses?

<table>
<thead>
<tr>
<th>Customer/licenses</th>
<th>Impacted?</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENT binaries (evaluation or non-evaluation downloaded from <a href="https://releases.hashicorp.com/vault/">releases.hashicorp.com</a>)</td>
<td>Yes</td>
</tr>
</tbody>
</table>
### Q: What is the product behavior change introduced by the licensing changes?

With Vault 1.8, a valid license is required on-disk (auto-loading) or in-storage for Vault to boot up successfully.

- Existing clusters upgrading to Vault 1.8 or later will not be affected. Customers may continue to use an in-storage license for their existing clusters until they decide to move to auto-loading. Please see the question below: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

- When deploying Vault 1.8 or later clusters, please ensure a valid license exists on-disk (auto-loading).

### Q: How will Vault behave at startup when a license expires or terminates?

When a license expires, Vault continues to function until the license terminates. This behavior exists today and remains unchanged in Vault 1.8. The grace period, defined as the time between license expiration and license termination, is 1 day for evaluation licenses (as of 1.8), and ten years for non-evaluation licenses. Customers must install a valid license before the grace period expires. This license can be autoloaded or loaded into storage using existing methods (`/sys/license`) depending on the applicable scenarios as described above.

When license terminates (upon grace period expiry), Vault will seal itself and customers will need a valid license in order to successfully bring-up Vault. If a valid license was not installed after license expiry, customers will need to install one, and this license will need to be auto-loaded.

### Q: What is the impact on evaluation licenses due to this change?

The 6-hour trial period for Enterprise binaries allows these particular binaries to run without a license file and will be removed as of Vault 1.8 and later. This change means that any clusters deployed with Vault 1.8 or later ENT binaries must have a valid license, and the license must be on the disk (auto-loading).

### Q: Are there any changes to existing methods for manual license loading (API or CLI)?

There are no significant changes to the API or CLI license loading with Vault 1.8. However, the `/sys/license` endpoint is slated for deprecation in a future release.

Please see the question: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

### Q: Is there a grace period when evaluation licenses expire?

Evaluation licenses have a 1-day grace period. The grace period is the time until the license expires. Upon expiration, Vault will seal and will require a valid license to unseal and function properly.

### Q: Does this affect clients?

No, there is no impact to the Vault Agent.

### Q: Are the license files locked to a specific cluster?
The changes to licenses apply to all nodes in a cluster. The license files are not locked to a cluster, but are independently applied to the appropriate clusters.

### Q: Will a EULA check happen every time a Vault restarts?

Yes, starting with Vault 1.8, ENT binaries will be subjected to a EULA check. The release of Vault 1.8 introduces the EULA check for evaluation licenses (non-evaluation licenses are evaluated with a EULA check during contractual agreement)

Although the agreement to a EULA occurs only once (when the user receives their license), Vault will check for the presence of a valid license every time a node is restarted.

When a customer upgrades existing clusters to Vault 1.8 or later, a valid license must exist to upgrade successfully. This valid license must be in storage or on-disk (auto-loaded). Please see the below question: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

Also, when customers deploy new clusters to Vault 1.8 or later, a valid license must exist to upgrade successfully. This valid license must be on-disk (auto-loaded).

### Q: What scenarios should a customer plan for due to these license changes?

- **New Cluster Deployment**: When a customer deploys new clusters to Vault 1.8 or later, a valid license must exist to successfully deploy. This valid license must be on-disk (auto-loaded).

- **Eventual Migration**: Since in-storage licenses will not be supported forever, migrating to auto-loaded licenses will be required. Please see the below question: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

### Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?

If a Vault 1.7 cluster is upgraded to Vault 1.8 or later and still has a stored license, the operator must migrate using an auto-loaded license.

1. Use the new command `vault license get -signed` to retrieve the license from the storage in their running cluster.
2. Put the license on disk, configure auto-loading (new `license_path` config option, OR new environment variable `VAULT_LICENSE_PATH` OR new environment variable `VAULT_LICENSE` containing the actual license itself).
3. Restart the Vault node.
4. A warning will explain that the license is in storage and using auto-loading.
5. Use the new command `vault delete /sys/license` to fully transition to auto-loading.

### Q: What is the migration path for customers who wish to migrate from their existing perpetually licensed binaries to the license on disk flow (auto-loading)?

A Vault customer who is currently using S3 unlocked binaries, upgrading their clusters to Vault 1.8 or later, and wishes to move to auto-loading, will need a valid enterprise binary version 1.8 or later and a valid license. The steps are the same as in the above question: [What is the migration path for customers who want to migrate from their...](#)
existing license-as-applied-via-the-CLI flow to the license on disk flow?

### Q: What is the migration path for customers who want to migrate from their existing perpetually licensed binaries to the current license on storage flow?

A Vault customer currently using S3 unlocked binaries is upgrading their clusters to a pre-Vault 1.8 version, the customer must retrieve the corresponding enterprise binary and a valid license to load the license in storage (`/sys/license`). Please see the below question: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

### Q: What is the path for customers who want to down grade/rollback from Vault 1.8 or later (auto-loading) to a pre-Vault 1.8 (license in storage)?

The downgrade procedure remains the same for Vault customers who are currently on Vault 1.8 or later, have a license installed via auto-loading, and would like to downgrade their cluster to a pre-1.8 version that does not have auto-loading support and only supports license in storage. Please refer to the [upgrade procedures](https://learn.hashicorp.com/tutorials/vault/sop-upgrade?in=vault/standard-procedures) that remind the customers that they must take a snapshot before the upgrade. Customers will need to restore their version from the snapshot, apply the pre-1.8 enterprise binary version they wish to roll back, and bring up the clusters.

### Q: Is there a limited time for support of licenses that are in storage?

The support of licenses installed by alternative means often leads to difficulties providing the appropriate support. To provide the support expected by our customers, we plan to scale support for licenses in storage for Vault. With this plan, Vault customers who have up to a 1-year migration period, or until the release of Vault 1.11, to migrate their licenses from in-storage to auto-loading. Starting with Vault 1.11, licensing endpoints that are put in storage will be removed, and Vault will no longer check for valid licenses in storage. This change requires that all customers have auto-loaded licenses to upgrade to 1.11(+) successfully.
Prior to Vault 1.8, Vault Enterprise would be licensed using special binaries that contained embedded licenses, or via a license written into Vault storage using the [PUT sys/license API](/api/system/license#install-license).

As of Vault 1.8 those options still exist but are deprecated, and the recommended
mechanism for managing licenses is called License Autoloading. New clusters are required to use the autoloading method.

License Autoloading can be done using one of these mechanisms, in increasing order of priority (i.e. 'VAULT_LICENSE' takes precedence over 'VAULT_LICENSE_PATH', which takes precedence over 'license_path' in config.)
* [license_path in config](/docs/configuration#license_path)
* [VAULT_LICENSE_PATH environment variable](/docs/commands#vault_license_path)
* [VAULT_LICENSE environment variable](/docs/commands#vault_license)

Nodes within a cluster should be consistently licensed. All nodes in a cluster should use autoloading, or none should. If autoloading is used, all nodes should use the same license string. Warnings will be written to the log when there are discrepancies.

If autoloading is used, any existing stored license will be ignored. The presence of a stored license in conjunction with an autoloaded license will also result in logged warnings. Once a migration to autoloading is completed, it is recommended to use the [DELETE API](/api/system/license#delete-license) to remove the stored license.

{{#if this.licenseExpired}}
  <div class="license-banner-wrapper" data-test-license-banner data-test-license-banner-expired>
    <AlertBanner
      @type="danger"
      @title="License expired"
      @message="Your Vault license expired on {{date-format @expiry "MMM d, yyyy"}}. Add a new license to your configuration and restart Vault."
      @marginless={{true}}
    >
      <a href="https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license" target="_blank" rel="noreferrer noopenener">Read documentation</a>
    </AlertBanner>
  </div>
{{else if (lte this.licenseExpiringInDays 30))}}
  <div class="license-banner-wrapper" data-test-license-banner data-test-license-banner-warning>
    <AlertBanner
      @type="warning"
      @title="Vault license expiring"
      @message="Your Vault license will expire in {{this.licenseExpiringInDays}} days at {{date-format @expiry "hh:mm:ss a"}} on {{date-format @expiry "MMM d, yyyy"}}. {{if @autoloaded 'Add a new license to your configuration.' 'Keep in mind that your next license will need to be autoloaded'}}"
      @marginless={{true}}
    >
      <a href="https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license" target="_blank" rel="noreferrer noopenener">Read documentation</a>
    </AlertBanner>
  </div>
{{/if}}
// Features is a bitmask of feature flags
type Features uint

const FeatureNone Features = 0

func (f Features) HasFeature(flag Features) bool {
    return false
}

---
layout: docs
page_title: license get - Command
description: |
The "license get" command reports on the license in use.
---

# license get

The `license get` command reports on the license in use. With the `'-signed'` flag, it will return the actual license string, but only if the license is stored, as opposed to [autoloaded]ouched](/docs/enterprise/license/autoloading).

### Examples

Describe current license:

```
```shell-session
$ vault license get
Key                          Value
---                          -----  
expiration_time              2022-05-17T23:59:59.999Z
features                     [HSM Performance Replication DR Replication MFA Sentinel Seal Wrapping Control Groups
Performance Standby Namespaces KMIP Entropy Augmentation Transform Secrets Engine Lease Count Quotas
Key Management Secrets Engine Automated Snapshots]
license_id                   060d7820-fa59-f95c-832b-395db0aeb9ba
performance_standby_count   9999
start_time                   2021-05-17T00:00:00Z
```
```shell-session
$ vault license get -signed
02MV4UU43BK5H...
```

Try to get stored license string when using autoloading:

```shell-session
$ vault license get -signed
License not found or using a temporary license.
```

## Usage

The following flags are available in addition to the [standard set of flags](/docs/commands) included on all commands.

### Command Options

- `-signed` *(bool: false)* - Return the signed license string when using a stored license.

### 1.689 bluez 4.101

#### 1.689.1 Available under license:

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

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copyright notice for the Library among them, as well as a reference
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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
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1.695 ecdsa 0.11
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1.696 gnutls 3.3.5

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1.705 httpunix 0.0.0-20150427012821-b75d8614f926

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1.706 libgpg-error 1.24

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1.716 lvm2 2.02.180

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1.721 unzip 6.0-r5

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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

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1.722 prometheus-client 0.2.0

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1.723 x-time-rate 0.0.0-20200630173020-3af7569d3a1e

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1.726 netbsd-resolv 2.20

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*
* curve25519-donna: Curve25519 elliptic curve, public key function
*
* http://code.google.com/p/curve25519-donna/
*
* Adam Langley <agl@imperialviolet.org>
*
* Derived from public domain C code by Daniel J. Bernstein <djb@cr.yp.to>
*
* More information about curve25519 can be found here
* http://cr.yp.to/ecdh.html
*
* djb's sample implementation of curve25519 is written in a special assembly
* language called qasm and uses the floating point registers.
*
* This is, almost, a clean room reimplementation from the curve25519 paper. It
* uses many of the tricks described therein. Only the crecip function is taken
* from the sample implementation.
*/

1.732 log-rotate 3.9.1
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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

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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
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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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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,
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
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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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1.752 go-systemd 22.1.0

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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
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  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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1.757 protobuf 3.13.0

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  * VI syntax highlighting tweaks.
* Fix compiler to not make output executable.
* Heuristic detection of sub-messages when printing unknown fields in text format.

Brian Atkinson <naibr774@gmail.com>
* Added @Override annotation to generated Java code where appropriate.

Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>
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* Detect unordered_map in stl_hash.m4.

Brian Olson <brianolson@google.com>
* gzip/zlib I/O support.

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* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
* Added generation of field number constants.

Wink Saville <wink@google.com>
* Fixed initialization ordering problem in logging code.

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 <xarthisisukkk@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.

Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xlC compiler build issues
* Added atomicops for AIX (POWER)

1.758 openssl 1.1.0h
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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// Analytics API
//
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//

package analytics

// LicenseTypeEnum Enum with underlying type: string

type LicenseTypeEnum string
// Set of constants representing the allowable values for LicenseTypeEnum
const (
    LicenseTypeLicenseIncluded LicenseTypeEnum = "LICENSE_INCLUDED"
    LicenseTypeBringYourOwnLicense LicenseTypeEnum = "BRING_YOUR_OWN_LICENSE"
)

var mappingLicenseType = map[string]LicenseTypeEnum{
    "LICENSE_INCLUDED":       LicenseTypeLicenseIncluded,
    "BRING_YOUR_OWN_LICENSE": LicenseTypeBringYourOwnLicense,
}

// GetLicenseTypeEnumValues Enumerates the set of values for LicenseTypeEnum
func GetLicenseTypeEnumValues() []LicenseTypeEnum {
    values := make([]LicenseTypeEnum, 0)
    for _, v := range mappingLicenseType {
        values = append(values, v)
    }
    return values
}

1.769 netlink 1.1.0
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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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2.7 2.6 2010 PSF yes

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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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Just configure this file as the SSLCACertificateFile.#

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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
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want its recipients to know that what they have is not the original
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Most GNU software, including some libraries, is covered by the ordinary
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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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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.

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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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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.)

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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 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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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.

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

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

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

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

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

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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
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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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PCRE JUST-IN-TIME COMPILATION SUPPORT
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*** Settings ***
Documentation  Test 19-4 - DRS-Disabled-License-Features
Resource  ../../resources/Util.robot
Suite Teardown  Cleanup VIC Appliance On Test Server

*** Test Cases ***
vic-machine create checks DRS setting and RP options
   Set Environment Variable  TEST_TIMEOUT  30m

   ${output}=  Install VIC Appliance To Test Server  additional-args=--memory 8000 --memory-reservation 512 --memory-shares 6000 --cpu 10000 --cpu-reservation 512 --cpu-shares high
   Should Contain  ${output}  DRS is recommended, but is disabled
   Should Contain  ${output}  Memory Limit
   Should Contain  ${output}  Memory Reservation
   Should Contain  ${output}  Memory Shares
   Should Contain  ${output}  CPU Limit
   Should Contain  ${output}  CPU Reservation
   Should Contain  ${output}  CPU Shares
/*
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*/

package license

import (  "fmt"  "io"  "os"  


type licenseOutput []types.LicenseManagerLicenseInfo

func (res licenseOutput) Write(w io.Writer) error {
    tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
    fmt.Fprintf(tw, "Key:	Edition:	Used:	Total:
")
    for _, v := range res {
        fmt.Fprintf(tw, "%s\t", v.LicenseKey)
        fmt.Fprintf(tw, "%s\t", v.EditionKey)
        fmt.Fprintf(tw, "%d\t", v.Used)
        fmt.Fprintf(tw, "%d\t", v.Total)
        fmt.Fprintf(tw, "\n")
    }
    return tw.Flush()
}

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*/

package license

import (
    "context"
    "flag"
    "fmt"
    "io"
    "os"
    "text/tabwriter"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/vim25/types"
)

type assigned struct {
    *flags.ClientFlag
    *flags.OutputFlag

    id string
}

func init() {
    cli.Register("license.assigned.ls", &assigned{ })
}

func (cmd *assigned) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)

    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
f.StringVar(&cmd.id, "id", ",", "Entity ID")
}

func (cmd *assigned) Process(ctx context.Context) error {
if err := cmd.ClientFlag.Process(ctx); err != nil {
    return err
}
if err := cmd.OutputFlag.Process(ctx); err != nil {
    return err
}
return nil
}

func (cmd *assigned) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    m, err := license.NewManager(client).AssignmentManager(ctx)
    if err != nil {
        return err
    }
    assigned, err := m.QueryAssigned(ctx, cmd.id)
    if err != nil {
        return err
    }
    return cmd.WriteResult(assignedOutput(assigned))
}

type assignedOutput []types.LicenseAssignmentManagerLicenseAssignment

func (res assignedOutput) Write(w io.Writer) error {
    tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
    fmt.Fprintf(tw, "Id:	Scope:	Name:	License:
"
    for _, v := range res {
        fmt.Fprintf(tw, "%s\t", v.EntityId)
        fmt.Fprintf(tw, "%s\t", v.Scope)
        fmt.Fprintf(tw, "%s\t", v.EntityDisplayName)
        fmt.Fprintf(tw, "%s\t", v.AssignedLicense.LicenseKey)
        fmt.Fprintf(tw, "\n")
    }
    return tw.Flush()
}

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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:]...)
return body
}
}
return body

type LicenseAssignmentManager struct {
mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault
// 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
    }
}

body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
    {
        EntityId:        req.EntityId,
        AssignedLicense: EvalLicense,
    },
}

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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package license

import {
  "context"
  "github.com/vmware/govmomi/object"
  "github.com/vmware/govmomi/vim25/methods"
  "github.com/vmware/govmomi/vim25/types"
}

type AssignmentManager struct {
  object.Common
}

func (m AssignmentManager) QueryAssigned(ctx context.Context, id string) ([]types.LicenseAssignmentManagerLicenseAssignment, error) {
  req := types.QueryAssignedLicenses{
    This:     m.Reference(),
    EntityId: id,
  }
  res, err := methods.QueryAssignedLicenses(ctx, m.Client(), &req)
  if err != nil {
    return nil, err
  }
  return res.Returnval, nil
}

func (m AssignmentManager) Remove(ctx context.Context, id string) error {
  req := types.RemoveAssignedLicense{
    This:     m.Reference(),
    EntityId: id,
  }
  _, err := methods.RemoveAssignedLicense(ctx, m.Client(), &req)
  return err
}

func (m AssignmentManager) Update(ctx context.Context, id string, key string, name string) (*types.LicenseManagerLicenseInfo, error) {
  req := types.UpdateAssignedLicense{
    This:     m.Reference(),
    Entity:            id,
    ...
res, err := methods.UpdateAssignedLicense(ctx, m.Client(), &req)
if err != nil {
    return nil, err
}

return &res.Returnval, nil

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    "context"  
    "strconv"  
    "strings"  
    "github.com/vmware/govmomi/object"  
    "github.com/vmware/govmomi/vim25"  
    "github.com/vmware/govmomi/vim25/methods"  
    "github.com/vmware/govmomi/vim25/mo"  
    "github.com/vmware/govmomi/vim25/types"
)

type Manager struct {  
    object.Common  
}

func NewManager(c *vim25.Client) *Manager {  
m := Manager{  
    object.NewCommon(c, *c.ServiceContent.LicenseManager),  
}  

func mapToKeyValueSlice(m map[string]string) []types.KeyValue {
    var r []types.KeyValue
    for k, v := range m {
        r = append(r, types.KeyValue{Key: k, Value: v})
    }
    return r
}

func (m Manager) Add(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
    req := types.AddLicense{
        This: m.Reference(),
        LicenseKey: key,
        Labels:    mapToKeyValueSlice(labels),
    }
    res, err := methods.AddLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }
    return res.Returnval, nil
}

func (m Manager) Decode(ctx context.Context, key string) (types.LicenseManagerLicenseInfo, error) {
    req := types.DecodeLicense{
        This: m.Reference(),
        LicenseKey: key,
    }
    res, err := methods.DecodeLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }
    return res.Returnval, nil
}

func (m Manager) Remove(ctx context.Context, key string) error {
    req := types.RemoveLicense{
        This: m.Reference(),
        LicenseKey: key,
    }
    res, err := methods.RemoveLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }
    return res.Returnval, nil
}


func (m Manager) Update(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateLicense{
        This:       m.Reference(),
        LicenseKey: key,
        Labels:     mapToKeySlice(labels),
    }

    res, err := methods.UpdateLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }

    return res.Returnval, nil
}

func (m Manager) List(ctx context.Context) (InfoList, error) {
    var mlm mo.LicenseManager

    err := m.Properties(ctx, m.Reference(), []string{"licenses"}, &mlm)
    if err != nil {
        return nil, err
    }

    return InfoList(mlm.Licenses), nil
}

func (m Manager) AssignmentManager(ctx context.Context) (*AssignmentManager, error) {
    var mlm mo.LicenseManager

    err := m.Properties(ctx, m.Reference(), []string{"licenseAssignmentManager"}, &mlm)
    if err != nil {
        return nil, err
    }

    if mlm.LicenseAssignmentManager == nil {
        return nil, object.ErrNotSupported
    }

    am := AssignmentManager{
        object.NewCommon(m.Client(), *mlm.LicenseAssignmentManager),
    }

    return am, nil
}
type licenseFeature struct {
    name  string
    level int
}

func parseLicenseFeature(feature string) *licenseFeature {
    lf := new(licenseFeature)
    f := strings.Split(feature, ":")
    lf.name = f[0]
    if len(f) > 1 {
        var err error
        lf.level, err = strconv.Atoi(f[1])
        if err != nil {
            lf.name = feature
        }
    }
    return lf
}

func HasFeature(license types.LicenseManagerLicenseInfo, key string) bool {
    feature := parseLicenseFeature(key)
    for _, p := range license.Properties {
        if p.Key != "feature" {
            continue
        }
        kv, ok := p.Value.(types.KeyValue)
        if !ok {
            continue
        }
        lf := parseLicenseFeature(kv.Key)
        if lf.name == feature.name && lf.level >= feature.level {
            return true
        }
    }
    return false
}
// InfoList provides helper methods for []types.LicenseManagerLicenseInfo

type InfoList []types.LicenseManagerLicenseInfo

func (l InfoList) WithFeature(key string) InfoList {
    var result InfoList

    for _, license := range l {
        if HasFeature(license, key) {
            result = append(result, license)
        }
    }

    return result
}

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package license

import (
    "context"
type assign struct {
    *flags.ClientFlag
    *flags.OutputFlag
    *flags.HostSystemFlag
    *flags.ClusterFlag

    name   string
    remove bool
}

func init() {
    cli.Register("license.assign", &assign{})
}

func (cmd *assign) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)

    cmd.HostSystemFlag, ctx = flags.NewHostSystemFlag(ctx)
    cmd.HostSystemFlag.Register(ctx, f)

    cmd.ClusterFlag, ctx = flags.NewClusterFlag(ctx)
    cmd.ClusterFlag.Register(ctx, f)

    f.StringVar(&cmd.name, "name", "", "Display name")
    f.BoolVar(&cmd.remove, "remove", false, "Remove assignment")
}

func (cmd *assign) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }

    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }

    if err := cmd.HostSystemFlag.Process(ctx); err != nil {
        return err
    }

    return err
}
func (cmd *assign) Usage() string {
    return "KEY"
}

func (cmd *assign) Description() string {
    return `Assign licenses to HOST or CLUSTER.

Examples:
govc license.assign $VCSA_LICENSE_KEY
  govrc license.assign -host a_host.example.com $ESX_LICENSE_KEY
  govrc license.assign -cluster a_cluster $VSAN_LICENSE_KEY`
}

func (cmd *assign) Run(ctx context.Context, f *flag.FlagSet) error {
    if f.NArg() != 1 {
        return flag.ErrHelp
    }
    key := f.Arg(0)

    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m, err := license.NewManager(client).AssignmentManager(ctx)
    if err != nil {
        return err
    }

    host, err := cmd.HostSystemIfSpecified()
    if err != nil {
        return err
    }

    var id string
    if host == nil {
        cluster, cerr := cmd.ClusterIfSpecified()
        if cerr != nil {
            return cerr
        }
        if cluster == nil {
            // Default to vCenter UUID
            return flag.ErrHelp
        }
    }
    return cmd.ClusterFlag.Process(ctx)
}
id = client.ServiceContent.About.InstanceUuid
} else {
    id = cluster.Reference().Value
} else {
    id = host.Reference().Value
}

if cmd.remove {
    return m.Remove(ctx, id)
}

info, err := m.Update(ctx, id, key, cmd.name)
if err != nil {
    return err
}

return cmd.WriteResult(licenseOutput([]types.LicenseManagerLicenseInfo{*info}))

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>>> coreutils-8.27-3.ph2
>>> elfutils-0.169-3.ph2
>>> grep-3.0-4.ph2
>>> gzip-1.8-1.ph2
>>> haveged-1.9.1-4.ph2
>>> readline-7.0-2.ph2

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>>> glibc-2.26-13.ph2
>>> hawkey-2017.1-6.ph2
>>> kmod-24-3.ph2
>>> libgcrypt-1.8.1-2.ph2
>>> libgpg-error-1.27-1.ph2
>>> systemd-233-16.ph2

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>>> gmp-6.1.2-2.ph2

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>>> glib-2.52.1-3.ph2

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>>> nspr-4.15-1.ph2
>>> nss-3.31.1-1.ph2
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>>> maruel_panicparse_stack-25bcac0d793cf4109483505a0d66e066a3a90a80

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>>> armon_go-metrics-f303b03b91d770a11a39677f1d3b55da4002bcb

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>>> armon_go-radix-4239b77079c7b5d1243b7b4736304ce8ddb6f0f2

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Gocheck - A rich testing framework for Go

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>>> go-martini/martini-22fa46961aab2665c3f1343b146d20028f5071

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>>> go-nfs-client-42fca177a36031d648551c751de1daf5f55dd4f0

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>>> godbus_dbus-230e4b23db2fd81e53eaa0073f76659d4849ce51

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>>> gogo_protobuf_gogoprototcp-6a92c871a8f5333cf106b2cdf937567208dbb2b7

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>>> gogo_protobuf_protoc-gen-gogo_descriptor-6a92c871a8f5333cf106b2cdf937567208dbb2b7

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>>> mreiferson_go-httpclient-31f0106b4474f14bc441575c19d3a5fa21aa1f6c

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smartystreets_assertions-287b4346dc4e71a038c346375a9d572453bc469b

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>>> tomb_v1-dd632973f1e7218eb1089048e0798ec9ae7dceb8

tomb - support for clean goroutine termination in Go.

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>>> tylerb/graceful.v1-4654dfbb6ad53cb5e27f37d99b02e16c1872fbbb

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>>> x_net_trace-a6577fac2d73be281a500b310739095313165611

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>>> x_oauth2-1611bb46e67abc64a71ecc5c3ae67f1cbcbc2b921

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>>> x_sync_singleflight-5a06fca2c336a4b2b2fcb45702e8c47621b2aa2c

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```>>> x_tools_go_ast_astutil-381149a2d6e5d8f319ccf04bfefc71e03a78b868
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 Package short implements a simple URL shortener, serving an administrative interface at /s and shortened urls from /s/key.
It is designed to run only on the instance of godoc that serves golang.org.

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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>>> curl-7.59.0-3.ph2

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Author:
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This differs from Colin Plumb's older public domain implementation in that
no exactly 32-bit integer data type is required (any 32-bit or wider
unsigned integer data type will do), there's no compile-time endianness
configuration, and the function prototypes match OpenSSL's. No code from
Colin Plumb's implementation has been reused; this comment merely compares
the properties of the two independent implementations.

The primary goals of this implementation are portability and ease of use.
It is meant to be fast, but not as fast as possible. Some known
optimizations are not included to reduce source code size and avoid
compile-time configuration.

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lib/gssapi/mechglue/g.accept_sec_context.c
lib/gssapi/mechglue/g.acquire_cred.c
lib/gssapi/mechglue/g.canon_name.c
lib/gssapi/mechglue/g.compare_name.c
lib/gssapi/mechglue/g.context_time.c
lib/gssapi/mechglue/g.delete_sec_context.c
lib/gssapi/mechglue/g.dsp_name.c
lib/gssapi/mechglue/g.dsp_status.c
lib/gssapi/mechglue/g.dup_name.c
lib/gssapi/mechglue/g.exp_sec_context.c
lib/gssapi/mechglue/g.export_name.c
lib/gssapi/mechglue/g.glue.c
lib/gssapi/mechglue/g.imp_name.c
lib/gssapi/mechglue/g.imp_sec_context.c
lib/gssapi/mechglue/g.init_sec_context.c
lib/gssapi/mechglue/g.initialize.c
lib/gssapi/mechglue/g.inquire_context.c
lib/gssapi/mechglue/g.inquire_cred.c
lib/gssapi/mechglue/g.inquire_names.c
lib/gssapi/mechglue/g.process_context.c
lib/gssapi/mechglue/g.rel_buffer.c
lib/gssapi/mechglue/g.rel_cred.c
lib/gssapi/mechglue/g.rel_name.c
lib/gssapi/mechglue/g.rel_oid_set.c
lib/gssapi/mechglue/g.seal.c
lib/gssapi/mechglue/g.sign.c
lib/gssapi/mechglue/g.store_cred.c
lib/gssapi/mechglue/g.unseal.c
lib/gssapi/mechglue/g.userok.c
lib/gssapi/mechglue/g.utils.c
lib/gssapi/mechglue/g.verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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```

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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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chkconfig: 2345 11 89
description: sets up CBQ-based traffic control

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IPv6 Hop Limit Target module
Maciej Soltysiak <solt@dns.toxicfilms.tv>
Based on HW's ttl target
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SYN signatures. Those signatures work for SYN packets only (duh!).

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This code offers a very basic support for this EISA bus present in the SGI Indigo-2. It currently only supports PIO (forget about DMA for the time being). This is enough for a low-end ethernet card, but forget about your favorite SCSI card...

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Please send questions/comments/patches about Linux PCI API to the "Linux PCI" <linux-pci@atrey.karlin.mff.cuni.cz> mailing list.

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line - read one line


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From Simon Josefsson
-- derivated from coreutils m4/warnings.m4

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setpwnam.c -- edit an entry in a password database.

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Edited 11/10/96 (DD/MM/YY ;-) by Nicolai Langfeldt (janl@math.uio.no) to read /etc/passwd directly so that passwd, chsh and chfn can work on machines that run NIS (previously YP). Changes will not be made to usernames starting with +.

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Usage:
1) get a struct passwd from getpwnam().
You should assume a struct passwd has an infinite number of fields, so you should not try to create one from scratch.
2) edit the fields you want to edit.
3) call setpwnam() with the edited struct passwd.

A _normal user_ program should never directly manipulate etc/passwd but /use getpwnam() and (family, as well as) setpwnam().

But, setpwnam was made to _edit_ the password file. For use by chfn, chsh and passwd. _I_ _HAVE_ to read and write /etc/passwd directly. Let those who say nay be forever silent and think about how getpwnam (and family) works on a machine running YP.

Added checks for failure of malloc() and removed error reporting to stderr, this is a library function and should not print on the screen, but return appropriate error codes.
27-Jan-97 - poe@daimi.aau.dk

Thanks to "two guys named Ian".

$Author: poer$
$Revision: 1.13$
$Date: 1997/06/23 08:26:29$

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Python bindings for the libmount library.

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Written by Ondrej Oprala and Karel Zak

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Bison implementation for Yacc-like parsers in C


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error.c -- Functions for handling errors.

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A Bison parser, made by GNU Bison 3.0.4.

Bison interface for Yacc-like parsers in C


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(Mostly) portable public-domain implementation -- D A Gwyn
This implementation of the PWB library alloca function, which is used to allocate space off the run-time stack so that it is automatically reclaimed upon procedure exit, was inspired by discussions with J. Q. Johnson of Cornell. J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

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grep-3.0.tar.xz\grep-3.0.tar\grep-3.0\lib\alloca.c

alloca.c -- allocate automatically reclaimed memory
(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library alloca function,
which is used to allocate space off the run-time stack so
that it is automatically reclaimed upon procedure exit,
was inspired by discussions with J. Q. Johnson of Cornell.
J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can
be defined when compiling for your specific system, for
improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep
track of all alloca-allocated blocks, and reclaim any
that are found to be deeper in the stack than the current
invocation. This heuristic does not reclaim storage as
soon as it becomes invalid, but it will do so eventually.

As a special case, alloca(0) reclaims storage without
allocating any. It is a good idea to use alloca(0) in
your main control loop, etc. to force garbage collection.

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Hash DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
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with and without prediction resistance

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Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
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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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That's all there is to it!

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Version 2.1, February 1999

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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.

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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.
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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.

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Ty Coon, President of Vice

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-------------- SECTION 6: GNU Lesser General Public License, V3.0 --------------

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Version 3, 29 June 2007
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A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

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You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

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If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application
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a) under this License, provided that you make a good faith effort to
ensure that, in the event an Application does not supply the
function or data, the facility still operates, and performs
whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of
this License applicable to that copy.


The object code form of an Application may incorporate material from
a header file that is part of the Library. You may convey such object
code under terms of your choice, provided that, if the incorporated
material is not limited to numerical parameters, data structure
layouts and accessors, or small macros, inline functions and templates
(ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the
Library is used in it and that the Library and its use are
covered by this License.
b) Accompany the object code with a copy of the GNU GPL and this license document.


You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.
d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

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.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany
the Minimal Corresponding Source and Corresponding Application

Code. If you use option 4d1, you must provide the Installation

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This work has the LPPL maintenance status "maintained".
The Current Maintainer of this work is M. Y. Name.

This work consists of the files pig.dtx and pig.ins
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Important Recommendations

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[VIC15GAMS010319]
Gocheck - A rich testing framework for Go

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/

package license

import (  
"context"  
"flag"  
"github.com/vmware/govmomi/govc/cli"  
"github.com/vmware/govmomi/govc/flags"  
"github.com/vmware/govmomi/license"
)

type decode struct {  
*flags.ClientFlag  
*flags.OutputFlag

func init() {
cli.Register("license.decode", &decode{})
}

func (cmd *decode) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)

    f.StringVar(&cmd.feature, "feature", ",", featureUsage)
}

func (cmd *decode) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }

    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *decode) Usage() string {
    return "KEY..."
}

func (cmd *decode) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m := license.NewManager(client)
    for _, v := range f.Args() {
        license, err := m.Decode(ctx, v)
        if err != nil {
            return err
        }
    }

    result = append(result, license)
}

var result license.InfoList
if cmd.feature != "" {
    result = result.WithFeature(cmd.feature)
}

return cmd.WriteResult(licenseOutput(result))
}

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Protocol Buffers for Go with Gadgets

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http://github.com/gogo/protobuf

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

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# Purpose:
To verify that vic-machine create checks for the DRS setting and command flags specific to resource pools in a vSphere environment without DRS, such as a ROBO deployment. If a VCH is being installed in a DRS-disabled environment, vic-machine create should warn that DRS is disabled and mention that any resource pool options supplied in the command will be ignored as they are not applicable in this environment.

# References:
2. [Provide License and Feature Check](https://github.com/vmware/vic/issues/7277)
3. [vic-machine to provide license and feature check](https://github.com/vmware/vic/issues/7275)

# Environment:
This test requires access to VMware Nimbus cluster for dynamic ESXi and vCenter creation. This test should be executed in a vCenter environment with a cluster that has DRS turned off.

See https://confluence.eng.vmware.com/display/CNA/VIC+ROBO for more details.

# Test Steps:
1. Deploy a vCenter testbed with DRS disabled
2. Using vic-machine create, install a VCH with compute resource set to the cluster where DRS is off. Also supply options that are specific to resource pools: cpu, cpu-shares, cpu-reservation, memory, memory-shares and memory-reservation.
3. Delete the VCH

# Expected Outcome:
* All test steps should complete without error
* Step 2's output should contain a message stating that DRS is disabled and that the provided resource pool options...
will be ignored.

# Possible Problems:
None

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```go
package gobrake

import (  
    "fmt"
    "net/http"
)

type Error struct {
    Type      string       `json:"type"`
    Message   string       `json:"message"`
    Backtrace []StackFrame `json:"backtrace"`
}

type Notice struct {
    Errors  []Error       `json:"errors"`
    Context map[string]interface{} `json:"context"`
    Env     map[string]interface{} `json:"environment"`
    Session map[string]interface{} `json:"session"`
    Params  map[string]interface{} `json:"params"`
}
func NewNotice(e interface{}, req *http.Request, depth int) *Notice {
    stack := stack(depth)
    notice := &Notice{
        Errors: []Error{
            {
                Type: fmt.Sprintf("%T", e),
                Message: fmt.Sprint(e),
                Backtrace: stack,
            },
        },
        Context: map[string]interface{}{
            "notifier": map[string]interface{}{
                "name": "gobrake",
                "version": "2.0.3",
                "url": "https://github.com/airbrake/gobrake",
            },
        },
        Env: map[string]interface{}{},
        Session: map[string]interface{}{},
        Params: map[string]interface{}{},
    }

    if req != nil {
        notice.Context["url"] = req.URL.String()
        if ua := req.Header.Get("User-Agent"); ua != "" {
            notice.Context["userAgent"] = ua
        }
    }

    for k, v := range req.Header {
        if len(v) == 1 {
            notice.Env[k] = v[0]
        } else {
            notice.Env[k] = v
        }
    }

    if err := req.ParseForm(); err == nil {
        for k, v := range req.Form {
            if len(v) == 1 {
                notice.Params[k] = v[0]
            } else {
                notice.Params[k] = v
            }
        }
    }

    return notice
}
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//
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package github
import (  "context"  "fmt"
)

// LicensesService handles communication with the license related
// methods of the GitHub API.
// GitHub API docs: https://developer.github.com/v3/licenses/
type LicensesService struct {
    Name *string `json:"name,omitempty"
    Path *string `json:"path,omitempty"

    SHA *string `json:"sha,omitempty"
    Size int `json:"size,omitempty"
    URL *string `json:"url,omitempty"
    HTMLURL *string `json:"html_url,omitempty"
    GitURL *string `json:"git_url,omitempty"
    DownloadURL *string `json:"download_url,omitempty"
    Type *string `json:"type,omitempty"
    Content *string `json:"content,omitempty"
    Encoding *string `json:"encoding,omitempty"
    License *License `json:"license,omitempty"
}

func (l RepositoryLicense) String() string {
    return Stringify(l)
}

// License represents an open source license.
type License struct {
    Key *string `json:"key,omitempty"
    Name *string `json:"name,omitempty"
    URL *string `json:"url,omitempty"

    SPDXID *string `json:"spdx_id,omitempty"
    HTMLURL *string `json:"html_url,omitempty"
    Featured *bool `json:"featured,omitempty"
    Description *string `json:"description,omitempty"
    Implementation *string `json:"implementation,omitempty"
    Permissions *[]string `json:"permissions,omitempty"
    Conditions *[]string `json:"conditions,omitempty"
    Limitations *[]string `json:"limitations,omitempty"
    Body *string `json:"body,omitempty"
}
func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
// // GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List(ctx context.Context) ([]*License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }

    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    var licenses []*License
    resp, err := s.client.Do(ctx, req, &licenses)
    if err != nil {
        return nil, resp, err
    }

    return licenses, resp, nil
}

// Get extended metadata for one license.
// // GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)
    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }

    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    license := new(License)
    resp, err := s.client.Do(ctx, req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, nil
}
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>>> go-openapi_isjsonreference-36d33bfe519efa5632669801b180bf1a245da3b
>>> go-openapi_loads-6bb6486231e079eaa125cf39994ed3d0e53399ed
>>> go-openapi_runtime-3b13ebb46790d871d74a6c2450fa4b1280f90854
>>> go-openapi_spec-e072eb23903da03736a6eb617d30f48369160447
>>> go-openapi_strfmt-0cb3db444c13bad3b3f567b762a66751972a310cc
>>> go-openapi_swag-96d7b9e181a1735a1c9ace79714f232bf56c9
>>> go-openapi_validate-035dcd74f1f61e83debe1c22950de53656e7e4b2
>>> go_compute_metadata-cd0da878c66091060d2e7403ab62192b3e387e0
>>> go_internal-cd0da878c66091060d2e7403ab62192b3e387e0
>>> golang-glog-23def4e61c14bda8a2ce2ed8007337bc5e5007998
>>> golang_groupcache_lru-720d40f9fdec7d3821820cc4a6f150eae553639a
>>> govmoni-v0.17.1
>>> maruel_panicparse_stack-25bcac0d793cf4109483505a0d66e066a3a0a80
>>> oxtoacart/bpool-4e1c5567d7c2dd59fa4c7c83d34c2f3528b025d6
>>> syncutil_singleflight-7ce08ca145db0e66a127c447b800ee7914f3e4f9
>>> vdmeeister_shakers-24d7f1d6a71aa5d9cbe7390e4af66b7ee9e1b3
>>> vishvananda_netlink-482f7a52b758233521878c65904b6bd63f3457
>>> vishvananda_netns-604eaf189ee676d8c147faafc28def2394e878d25
>>> yaml_v2-4e78c795fe7c825c61466c42e594dd16f3aba6

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>>> agl.ed25519-master
>>> matryer_resync-d39c09a11215c84a0ab0b65e323fc47dd6e276af1
>>> mattn_go-runewidth-14207d285c6c197daabbc59793d36c7a9f9ab2d50
>>> mdlayher/arp-7140e8e22da120c3efc8e10962f99933624024e
>>> mdlayher/ethernet-e72cf8343052938936194daba1914fd1bb33d2fe
>>> mdlayher/raw-c83864e487652c25edc58048efad1df2f142c7
>>> microsoft_go-winio-24a3e3e32f7451805e9d11e11e959d9a0af205e
>>> microsoft_hcsshim-d327ca738085de7d617aa1df69d8fe7a64c2455
>>> miek_gn_c336af19af689be9c250df26ca7a4742eb4a6f
>>> mitchell_go-wordwrap-ad45545899c71c302ea92b20722200efad42b8
>>> mitchell_mapstructure-5a0325d7afaac12dddd6e70b8bd222ec1b69875e
>>> mreiferson_go-httpclient-31f1016b4474f14b4ca41757c19d3af5a21a16fc
>>> naoina_denco-9af2ba0e24214baco003820f4a501b131b2e04c75
>>> nloops_slack-f243c7602f906248fc1f165284daa4e4d2d09e
>>> nsf_termbox-go-91bae1bb5a9ee050490cebe7043f3a0e92faa3
>>> opennota_urlsec-c5a9f0392746aae1c4b37f44c265a7a9587
>>> pkg_profile-8a808a6967b979a566edaece5b0826d398a69518f
>>> puerkitobio_purell-d6916151cdcf7d514d6a38047a152df2a749d
>>> racksecssl-srlgsrg-974a9af67f8b572dd2dce73ec053e2cc0af0dc
>>> rs/cors-8dd4211af5d0d8bb39a533bb9b9e4b486351df6
>>> ryanuber_go-glob-256dc44b735e601616cf46c809487313d5b0605
>>> sirupsen_logrus-d26492790760ca5d33129d2d799e34bce5c4782eb
>>> smartystreets_assertions-287b4346dc4e71a038c346375a9d572453bc469b
>>> smartystreets_assertions_internal_oglematchers-287b4346dc4e71a038c346375a9d572453bc469b
>>> smartystreets_assertions_internal_oglemock-287b4346dc4e71a038c346375a9d572453bc469b
>>> smartystreets_assertions_internal_ogletest-287b4346dc4e71a038c346375a9d572453bc469b
>>> smartystreets_assertions_internal_retrace-287b4346dc4e71a038c346375a9d572453bc469b
>>> stretchr_objx-1a9d0b9f951897e62256577b352fbc1fbf4d94
>>> tomb_v1-dd632973f17218eb1089048e0798ec9ae7dceeb8
>>> tylerb_graceful-v1.4-6554dfbd6ad5c3cb5e27f37d9b02e16c187fbbb
>>> tylerb_graceful-v1.4-6554dfbd6ad5c3cb5e27f37d9b02e16c187fbbb
>>> ugorji_go_codec-708a2d246822952f3819088c46eb16a0e600c
>>> urfave_negroni-ccca4a194849828dcdb9446ef17fa4967b18624f2b
>>> urfave_cli_v1-0bdeddebe0650497d60dce4ad7b20c6e865862f6
>>> x_crypto_acme-728b753d0135da680145a3864f3ff55779c5e2
>>> x_crypto_curve25519-728b753d0135da680145a3864f3ff55779c5e2
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>>> x_crypto_nacl_secretbox-728b753d0135da680145a3864f3ff55779c5c2
>>> x_crypto_poly1305-728b753d0135da680145a3864f3ff55779c5c2
>>> x_crypto_salsa20_salsa-728b753d0135da680145a3864f3ff55779c5c2
>>> x_crypto_ssh-728b753d0135da680145a3864f3ff55779c5c2
>>> x failed-867650479d60dce4ad7b20c6e865862f6
>>> x_net_context-a6577fac2d73be28a1a005b31073909531316561
>>> x_net_http2-a6577fac2d73be28a1a005b31073909531316561
>>> x_net_idna-a6577fac2d73be28a1a005b31073909531316561
>>> x_net_internal_timeseries-a6577fac2d73be28a1a005b31073909531316561
>>> x_net_lex_httplex-a6577fac2d73be28a1a005b31073909531316561
>>> x_net_proxy-a6577fac2d73be28a1a005b31073909531316561
>>> x_net_trace-a6577fac2d73be28a1a005b31073909531316561
>>> x_net_websocket-a6577fac2d73be28a1a005b31073909531316561
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>>> d2g_dhcp4client-master
>>> hashicorp_go-cleanhttp-875fb671b3ddc66f8e2f0acc33829c8cb989a38d
>>> hashicorp_memberlist-cef12ad58224d55cf26ca9e3d239c2fcb3432a2

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>>> dbus-1.11.12-1.ph2

SECTION 2: Apache License, V2.0

>>> photon-release-2.0-2.ph2

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>>> curl-7.59.0-4.ph2
>>> expat-2.2.4-1.ph2
>>> iputils-20151218-4.ph2
>>> krb5-1.16-2.ph2
>>> libarchive-3.3.1-2.ph2
>>> libcap-2.25-7.ph2
>>> libdb-5.3.28-1.ph2
>>> libffi-3.2.1-5.ph2
>>> libsolv-0.6.26-3.ph2
>>> libssh2-1.8.0-1.ph2
>>> libtirpc-1.0.1-8.ph2
>>> linux-pam-1.3.0-1.ph2
>>> ls/of-4.89-2.ph2
>>> ncurses-6.0-14.ph2
>>> openssh-7.5p1-11.ph2
>>> openssl-1.0.2q-1.ph2
>>> pcric-8.41-1.ph2
>>> popt-1.16-5.ph2
>>> shadow-4.2.1-16.ph2
>>> sqlite-3.22.0-3.ph2
>>> sudo-1.8.20p2-5.ph2
>>> vim-8.0.0533-6.ph2
>>> xz-5.2.3-2.ph2
>>> zlib-1.2.11-1.ph2

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>>> e2fsprogs-1.43.4-2.ph2
>>> gcc-6.3.0-7.ph2
>>> iproute2-4.10.0-3.ph2
>>> iptables-1.6.1-4.ph2
>>> linux-esx-4.9.154-1.ph2
>>> logrotate-3.11.0-3.ph2
>>> mingetty-1.08-2.ph2
>>> net-tools-1.60-11.ph2
>>> procps-ng-3.3.15-2.ph2
>>> rpm-4.13.0.2-1.ph2
>>> tdnf-1.2.3-6.ph2
>>> util-linux-2.32-1.ph2

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>>> bash-4.4.12-3.ph2
>>> coreutils-8.27-3.ph2
>>> elfutils-0.169-3.ph2
>>> grep-3.0-4.ph2
>>> gzip-1.8-1.ph2
>>> haveged-1.9.1-4.ph2
>>> readline-7.0-2.ph2

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>>> cracklib-2.9.6-8.ph2
>>> gdb-2.26-13.ph2
>>> hawkey-2017.1-6.ph2
>>> kmod-24-3.ph2
>>> libgcrypt-1.8.1-2.ph2
>>> libgpg-error-1.27-1.ph2
>>> systemd-233-18.ph2

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>>> gmp-6.1.2-2.ph2

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>>> glib-2.52.1-3.ph2

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>>> ca-certificates-20180919-1.ph2
>>> nspr-4.15-1.ph2
>>> nss-3.31.1-1.ph2

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>>> codegangsta/inject-33e0aa1cb7c019ccc3fbe049a8262a6403d30504

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>>> codegangsta_cli-master

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>>> cpuguy83_go-md2man_md2man-a65d4d2de4d5f7c74868dfa9b202a3c8be315aaa

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>>> d2g_dhcp4-f0e4d29ff0231dce36e250b2ed9ff08412584bca

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>>> deckarep_golang-set-1f0f4ff8d3fbeb9328522993ce71c35890f67554

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>>> dustin_go-humanize-259d2a102b871d17f30e3cd9881a642961a1e486

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>>> gemnasium_logrus-airbrake-hook_v2-31e6fd4bd5a98d8ee7673d24bc54ec73c31810dd

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>>> gizak_termui-798ffb9cbbe4073ef1f88e6069ca4a2e6aa6676b

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>>> go-check_check-20d25e2804050c1cd24a7eea1e7a6447dd0e74ec

Gocheck - A rich testing framework for Go

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```bash
>>> go-martini/martini-22fa46961aabdb2665c3f1343b146d20028f5071
```

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>>> godbus_dbus-230e4b23db2fd81c53ea0073f76659d4849ce51

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>>> gogo_protobuf_gogoproto-6a92c871a8f5333cf106b2cdf937567208dbb2b7

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objx - by Mat Ryer and Tyler Bunnell

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tomb - support for clean goroutine termination in Go.

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This code is a port of the LibTom C implementation. See http://libtom.org/?page=features&newsitems=5&whatfile=crypt.
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It was heavily inspired by the go blowfish package.

```bash
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```

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+build appengine

Package short implements a simple URL shortener, serving an administrative interface at /s and shortened urls from /s/key.
It is designed to run only on the instance of godoc that serves golang.org.
package short

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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_spnego.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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@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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SHA-1 in C
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Bison implementation for Yacc-like parsers in C


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@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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chkconfig: 2345 11 89
description: sets up CBQ-based traffic control

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IPv6 Hop Limit Target module
Maciej Soltysiak <solt@dns.toxicfilms.tv>
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Reasonably optimised generic C-code for memcpy on Microblaze
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A more complete resource is the third edition of "Linux Device Drivers" by Jonathan Corbet, Alessandro Rubini, and Greg Kroah-Hartman. LDD3 is available for free (under Creative Commons License) from:

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However, keep in mind that all documents are subject to "bit rot". Refer to the source code if things are not working as described here.

Please send questions/comments/patches about Linux PCI API to the "Linux PCI" <linux-pci@atrey.karlin.mff.cuni.cz> mailing list.

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uuidparse.c --- Interpret uuid encoded information. This program violates the UUID abstraction barrier by reaching into the guts of a UUID.

Based on libuuid/src/uuid_time.c
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From Simon Josefsson  
-- derivated from coreutils m4/warnings.m4

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2.32\login-utils\setpwnam.c  
setpwnam.c -- edit an entry in a password database.

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Edited 11/10/96 (DD/MM/YY ;-) by Nicolai Langfeldt (janl@math.uio.no)  
to read /etc/passwd directly so that passwd, chsh and chfn can work on  
machines that run NIS (previously YP). Changes will not be made to  
usernames starting with +.

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Usage:
  1) get a struct passwd from getpwnam().  
     You should assume a struct passwd has an infinite number of fields, so  
     you should not try to create one from scratch.  
  2) edit the fields you want to edit.  
  3) call setpwnam() with the edited struct passwd.

A _normal user_ program should never directly manipulate etc/passwd but  
/use getpwnam() and (family, as well as) setpwnam().

But, setpwnam was made to _edit_ the password file. For use by chfn,  
chsh and passwd. _I _HAVE_ to read and write /etc/passwd directly. Let  
those who say nay be forever silent and think about how getpwnam (and  
family) works on a machine running YP.

Added checks for failure of malloc() and removed error reporting to  
stderr, this is a library function and should not print on the screen,  
but return appropriate error codes.  
27-Jan-97 - poe@daimi.aau.dk
Thanks to "two guys named Ian".

$Author: poer $
$Revision: 1.13 $
$Date: 1997/06/23 08:26:29 $

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Python bindings for the libmount library.

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Written by Ondrej Oprala and Karel Zak

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Bison implementation for Yacc-like parsers in C


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error.c -- Functions for handling errors.

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Bison interface for Yacc-like parsers in C


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There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

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alloca.c -- allocate automatically reclaimed memory
(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library alloca function, which is used to allocate space off the run-time stack so that it is automatically reclaimed upon procedure exit, was inspired by discussions with J. Q. Johnson of Cornell. J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.
The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

As a special case, alloca(0) reclaims storage without allocating any. It is a good idea to use alloca(0) in your main control loop, etc. to force garbage collection.

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kmod-24.tar.xz\kmod-24.tar\kmod-24\tools\rmmod.c

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libgcrypt-1.8.1.tar.bz2\libgcrypt-1.8.1.tar\libgcrypt-1.8.1\random\random-drbg.c

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DRBG: Deterministic Random Bits Generator
Based on NIST Recommended DRBG from NIST SP800-90A with the following properties:
CTR DRBG with DF with AES-128, AES-192, AES-256 cores
Hash DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
HMAC DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
with and without prediction resistance

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Version 2.0, January 2004

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

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Version 2.1, February 1999

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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.

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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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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.

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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.

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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-------------- SECTION 21: SIL Open Font License, V1.1 -----------

SIL OPEN FONT LICENSE

Version 1.1 - 26 February 2007

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LPPL Version 1.3c 2008-05-04

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b. If the search is unsuccessful or no action to resume active maintenance is taken by the Current Maintainer, then
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b. If the Current Maintainer is not reachable and the Copyright Holder agrees that maintenance of the Work be
passed to you, then this takes effect immediately upon announcement.

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

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---------------------------------------
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-------------------------
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// 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 license

import (
    "context"
    "flag"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
)

type remove struct {
    *flags.ClientFlag
    *flags.OutputFlag
}

func init() {
    cli.Register("license.remove", &remove{})
}

func (cmd *remove) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
}

func (cmd *remove) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}
func (cmd *remove) Usage() string {
    return "KEY..."
}

func (cmd *remove) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    m := license.NewManager(client)
    for _, v := range f.Args() {
        err = m.Remove(ctx, v)
        if err != nil {
            return err
        }
    }
    return nil
}

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limitations under the License.
func (cmd *add) Usage() string {
    return "KEY..."
}

func (cmd *add) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    m := license.NewManager(client)

    // From the vSphere 5.5 documentation:
    //
    // To specify the edition type and any optional functions, use
    // updateLicense for ESX Server and addLicense follow by
    // LicenseAssingmentManager.updateAssignedLicense for VirtualCenter.
    //
    var addFunc func(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error)
    switch t := client.ServiceContent.About.ApiType; t {
    case "HostAgent":
        addFunc = m.Update
    case "VirtualCenter":
        addFunc = m.Add
    default:
        return fmt.Errorf("unsupported ApiType: %s", t)
    }

    result := make(licenseOutput, 0)
    for _, v := range f.Args() {
        license, err := addFunc(ctx, v, nil)
        if err != nil {
            return err
        }
        result = append(result, license)
    }

    return cmd.WriteResult(licenseOutput(result))
}

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*/

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package license

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    "flag"
    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
)

var featureUsage = "List licenses with given feature"

type ls struct {
    *flags.ClientFlag
    *flags.OutputFlag

    feature string
}

func init() {
    cli.Register("license.ls", &ls{ })
}

func (cmd *ls) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)

    func (cmd *ls) Process(ctx context.Context) error {
        if err := cmd.ClientFlag.Process(ctx); err != nil {
            return err
        }
        return nil
    }

    func (cmd *ls) List(ctx context.Context, f *flag.FlagSet) error {
        // List
        return nil
    }

    func (cmd *ls) Usage(f *flag.FlagSet) {
        f.Usage()
    }

    // Register
    cli.Register("license.ls", &ls{ })
}


func (cmd *ls) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m := license.NewManager(client)
    result, err := m.List(ctx)
    if err != nil {
        return err
    }

    if cmd.feature != "" {
        result = result.WithFeature(cmd.feature)
    }

    return cmd.WriteResult(licenseOutput(result))
}

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1.808 python 2.7.16

1.809 linux-kernel 4.9.0
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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* *
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
*          interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
*          and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
*          loss of link, and correctly re-enable PHY when link is
*          re-established. (put back CFG_PHYIE)
* *
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* *
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* *
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
*
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* M. Welsh, 6 July 1996
*
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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.

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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.

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1.818 busybox 1.24.1

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1.821 sean-seed 0.0.0-20170313163322-e2103e2c3529

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1.823 util-linux 2.28.1

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 */

NR START  END SECTORS SIZE NAME UUID
1  32  7679    7648 3.7M      8f8378c0-01
2  7680 16383    8704 4.3M      8f8378c0-02
5  7936 12799    4864 2.4M
6 12544 16127    3584 1.8M

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

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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.

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1.830 patch 2.7.5

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- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02
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.

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* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/compress/huf_compress.c
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* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/common/threading.h

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/* number.c: Implements arbitrary precision numbers. */
/*

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*************************************************************************/
#include <stdio.h>
#include <config.h>
#include <number.h>
#include <assert.h>
#include <stdlib.h>
#include <string.h>
#include <ctype.h>/* Prototypes needed for external utility routines. */

#define bc_rt_warn rt_warn
#define bc_rt_error rt_error
#define bc_out_of_memory out_of_memory

_PROTOTYPE(void rt_warn, (char *mesg ,...));
_PROTOTYPE(void rt_error, (char *mesg ,...));
_PROTOTYPE(void out_of_memory, (void));

/* Storage used for special numbers. */
bc_num _zero_;
bc_num _one_;
bc_num _two_;
static bc_num _bc_Free_list = NULL;

/* new_num allocates a number and sets fields to known values. */
bc_num
bc_new_num (length, scale)
    int length, scale;
{
   bc_num temp;
if (_bc_Free_list != NULL) {
    temp = _bc_Free_list;
    _bc_Free_list = temp->n_next;
} else {
    temp = (bc_num) malloc (sizeof(bc_struct));
    if (temp == NULL) bc_out_of_memory();
}

    temp->n_sign = PLUS;
temp->n_len = length;
temp->n_scale = scale;
temp->n_refs = 1;
temp->n_ptr = (char *) malloc (length+scale);
    if (temp->n_ptr == NULL) bc_out_of_memory();
temp->n_value = temp->n_ptr;
memset (temp->n_ptr, 0, length+scale);
    return temp;
}

/* "Frees" a bc_num NUM. Actually decreases reference count and only
frees the storage if reference count is zero. */

void
bc_free_num (num)
bc_num *num;
{
    if (*num == NULL) return;
    (*num)->n_refs--;
    if (((*num)->n_refs == 0) {
        if (((*num)->n_ptr)
            free (((*num)->n_ptr);
        (*num)->n_next = _bc_Free_list;
        _bc_Free_list = *num;
    }
    *num = NULL;
}

/* Intialize the number package! */

void
bc_init_numbers ()
{
    _zero_ = bc_new_num (1,0);
    _one_ = bc_new_num (1,0);
    _one_->n_value[0] = 1;
    _two_ = bc_new_num (1,0);
    _two_->n_value[0] = 2;
}
/* Make a copy of a number! Just increments the reference count! */

bc_num
bc_copy_num (num)
    bc_num num;
{
    num->n_refs++;
    return num;
}

/* Initialize a number NUM by making it a copy of zero. */

void
bc_init_num (num)
    bc_num *num;
{
    *num = bc_copy_num (_zero_);
}

/* For many things, we may have leading zeros in a number NUM.
_bc_rm_leading_zeros just moves the data "value" pointer to the
correct place and adjusts the length. */

static void
_bc_rm_leading_zeros (num)
    bc_num num;
{
/* We can move n_value to point to the first non zero digit! */
while (*num->n_value == 0 && num->n_len > 1) {
    num->n_value++;
    num->n_len--;
}
}

/* Compare two bc numbers. Return value is 0 if equal, -1 if N1 is less
than N2 and +1 if N1 is greater than N2. If USE_SIGN is false, just
compare the magnitudes. */

static int
_bc_do_compare (n1, n2, use_sign, ignore_last)
    bc_num n1, n2;
    int use_sign;
    int ignore_last;
{
char *n1ptr, *n2ptr;
int count;

/* First, compare signs. */
if (use_sign && n1->n_sign != n2->n_sign)
{
  if (n1->n_sign == PLUS)
    return (1); /* Positive N1 > Negative N2 */
  else
    return (-1); /* Negative N1 < Positive N1 */
}

/* Now compare the magnitude. */
if (n1->n_len != n2->n_len)
{
  if (n1->n_len > n2->n_len)
  { /* Magnitude of n1 > n2. */
    if (!use_sign || n1->n_sign == PLUS)
      return (1);
    else
      return (-1);
  }
  else
  { /* Magnitude of n1 < n2. */
    if (!use_sign || n1->n_sign == PLUS)
      return (-1);
    else
      return (1);
  }
}

/* If we get here, they have the same number of integer digits.
   check the integer part and the equal length part of the fraction. */
count = n1->n_len + MIN (n1->n_scale, n2->n_scale);
n1ptr = n1->n_value;
n2ptr = n2->n_value;

while ((count > 0) && (*n1ptr == *n2ptr))
{
  n1ptr++;
  n2ptr++;
  count--;
}
if (ignore_last && count == 1 && n1->n_scale == n2->n_scale)
  return (0);
if (count != 0)
if (*n1ptr > *n2ptr)
{
  /* Magnitude of n1 > n2. */
  if (!use_sign || n1->n_sign == PLUS)
    return (1);
  else
    return (-1);
}
else
{
  /* Magnitude of n1 < n2. */
  if (!use_sign || n1->n_sign == PLUS)
    return (-1);
  else
    return (1);
}

/* They are equal up to the last part of the equal part of the fraction. */
if (n1->n_scale != n2->n_scale)
{
  if (n1->n_scale > n2->n_scale)
  {
    for (count = n1->n_scale-n2->n_scale; count>0; count--)
      if (*n1ptr++ != 0)
      {
        /* Magnitude of n1 > n2. */
        if (!use_sign || n1->n_sign == PLUS)
          return (1);
        else
          return (-1);
      }
  }
  else
  {
    for (count = n2->n_scale-n1->n_scale; count>0; count--)
      if (*n2ptr++ != 0)
      {
        /* Magnitude of n1 < n2. */
        if (!use_sign || n1->n_sign == PLUS)
          return (-1);
        else
          return (1);
      }
  }
}
/* They must be equal! */
return (0);
}

/* This is the "user callable" routine to compare numbers N1 and N2. */
int
bc_compare (n1, n2)
    bc_num n1, n2;
{
    return _bc_do_compare (n1, n2, TRUE, FALSE);
}

/* In some places we need to check if the number is negative. */
char
bc_is_neg (num)
    bc_num num;
{
    return num->n_sign == MINUS;
}

/* In some places we need to check if the number NUM is zero. */
char
bc_is_zero (num)
    bc_num num;
{
    int count;
    char *nptr;

    /* Quick check. */
    if (num == _zero_) return TRUE;

    /* Initialize */
    count = num->n_len + num->n_scale;
    nptr = num->n_value;

    /* The check */
    while ((count > 0) && (*nptr++ == 0)) count--;

    if (count != 0)
        return FALSE;
    else
        return TRUE;
}
/* In some places we need to check if the number NUM is almost zero. Specifically, all but the last digit is 0 and the last digit is 1. Last digit is defined by scale. */

char bc_is_near_zero (num, scale)
  {
    bc_num num;
    int scale;

    /* Error checking */
    if (scale > num->n_scale) scale = num->n_scale;

    /* Initialize */
    count = num->n_len + scale;
    nptr = num->n_value;

    /* The check */
    while ((count > 0) && (*nptr++ == 0)) count--;
    if (count != 0 && (count != 1 || *--nptr != 1)) return FALSE;
    else return TRUE;
  }

/* Perform addition: N1 is added to N2 and the value is returned. The signs of N1 and N2 are ignored. SCALE_MIN is to set the minimum scale of the result. */

static bc_num _bc_do_add (n1, n2, scale_min)
  {
    bc_num n1, n2;
    int scale_min;

    bc_num sum;
    int sum_scale, sum_digits;
    char *n1ptr, *n2ptr, *sumptr;
    int carry, n1bytes, n2bytes;
    int count;

    /* Prepare sum. */
    sum_scale = MAX (n1->n_scale, n2->n_scale);
    sum_digits = MAX (n1->n_len, n2->n_len) + 1;
sum = bc_new_num (sum_digits, MAX(sum_scale, scale_min));

/* Zero extra digits made by scale_min. */
if (scale_min > sum_scale)
{
    sumptr = (char *) (sum->n_value + sum_scale + sum_digits);
    for (count = scale_min - sum_scale; count > 0; count--)
        *sumptr++ = 0;
}

/* Start with the fraction part. Initialize the pointers. */
n1bytes = n1->n_scale;
n2bytes = n2->n_scale;
n1ptr = (char *) (n1->n_value + n1->n_len + n1bytes - 1);
n2ptr = (char *) (n2->n_value + n2->n_len + n2bytes - 1);
sumptr = (char *) (sum->n_value + sum_scale + sum_digits - 1);

/* Add the fraction part. First copy the longer fraction.*/
if (n1bytes != n2bytes)
{
    if (n1bytes > n2bytes)
        while (n1bytes>n2bytes)
            { *sumptr-- = *n1ptr--; n1bytes--;}
    else
        while (n2bytes>n1bytes)
            { *sumptr-- = *n2ptr--; n2bytes--;}
}

/* Now add the remaining fraction part and equal size integer parts. */
n1bytes += n1->n_len;
n2bytes += n2->n_len;
carry = 0;
while ((n1bytes > 0) && (n2bytes > 0))
{
    *sumptr = *n1ptr-- + *n2ptr-- + carry;
    if (*sumptr > (BASE-1))
    {
        carry = 1;
        *sumptr -= BASE;
    }
    else
    {
        carry = 0;
        sumptr--;
        n1bytes--;
n2bytes--;}
}

/* Now add carry the longer integer part. */
if (n1bytes == 0)
  { n1bytes = n2bytes; n1ptr = n2ptr; }
while (n1bytes-- > 0)
  {
    *sumptr = *n1ptr-- + carry;
    if (*sumptr > (BASE-1))
      {
        carry = 1;
        *sumptr -= BASE;
      }
    else
      carry = 0;
    sumptr--;  
  }
/* Set final carry. */
if (carry == 1)
  *sumptr += 1;
/* Adjust sum and return. */
_bc_rm_leading_zeros (sum);
return sum;

/* Perform subtraction: N2 is subtracted from N1 and the value is
returned. The signs of N1 and N2 are ignored. Also, N1 is
assumed to be larger than N2. SCALE_MIN is the minimum scale
of the result. */
static bc_num
_bc_do_sub (n1, n2, scale_min)
  bc_num n1, n2;
  int scale_min;
{
  bc_num diff;
  int diff_scale, diff_len;
  int min_scale, min_len;
  char *n1ptr, *n2ptr, *diffptr;
  int borrow, count, val;
/* Allocate temporary storage. */
diff_len = MAX (n1->n_len, n2->n_len);
diff_scale = MAX (n1->n_scale, n2->n_scale);
min_len = MIN  (n1->n_len, n2->n_len);
min_scale = MIN (n1->n_scale, n2->n_scale);
diff = bc_new_num (diff_len, MAX(diff_scale, scale_min));
/* Zero extra digits made by scale_min. */
if (scale_min > diff_scale)
{
    diffptr = (char *) (diff->n_value + diff_len + diff_scale);
    for (count = scale_min - diff_scale; count > 0; count--)
*diffptr++ = 0;
}

/* Initialize the subtract. */
n1ptr = (char *) (n1->n_value + n1->n_len + n1->n_scale -1);
n2ptr = (char *) (n2->n_value + n2->n_len + n2->n_scale -1);
diffptr = (char *) (diff->n_value + diff_len + diff_scale -1);

/* Subtract the numbers. */
borrow = 0;

/* Take care of the longer scaled number. */
if (n1->n_scale != min_scale)
{
    /* n1 has the longer scale */
    for (count = n1->n_scale - min_scale; count > 0; count--)
*diffptr-- = *n1ptr--;
}
else
{
    /* n2 has the longer scale */
    for (count = n2->n_scale - min_scale; count > 0; count--)
    {
        val = - *n2ptr-- - borrow;
        if (val < 0)
        {
            val += BASE;
            borrow = 1;
        }
    }
    else
    borrow = 0;
    *diffptr-- = val;
}

/* Now do the equal length scale and integer parts. */
for (count = 0; count < min_len + min_scale; count++)
{
    val = *n1ptr-- - *n2ptr-- - borrow;
    if (val < 0)
    {
        val += BASE;
    }
}
borrow = 1;
}
else
borrow = 0;
*diffptr-- = val;
}

/* If n1 has more digits then n2, we now do that subtract. */
if (diff_len != min_len)
{
    for (count = diff_len - min_len; count > 0; count--)
    {
        val = *n1ptr-- - borrow;
        if (val < 0)
        {
            val += BASE;
            borrow = 1;
        }
        else
        borrow = 0;
        *diffptr-- = val;
    }
}
/* Clean up and return. */
_bc_rm_leading_zeros (diff);
return diff;
}

/* Here is the full subtract routine that takes care of negative numbers. N2 is subtracted from N1 and the result placed in RESULT. SCALE_MIN is the minimum scale for the result. */

void
bc_sub (n1, n2, result, scale_min)
bc_num n1, n2, *result;
int scale_min;
{
    bc_num diff = NULL;
    int cmp_res;
    int res_scale;

    if (n1->n_sign != n2->n_sign)
    {
        diff = _bc_do_add (n1, n2, scale_min);
        diff->n_sign = n1->n_sign;
    }
else
{
    /* subtraction must be done. */
    /* Compare magnitudes. */
    cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE);
    switch (cmp_res)
    {
        case -1:
            /* n1 is less than n2, subtract n1 from n2. */
            diff = _bc_do_sub (n2, n1, scale_min);
            diff->n_sign = (n2->n_sign == PLUS ? MINUS : PLUS);
            break;
        case 0:
            /* They are equal! return zero! */
            res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
            diff = bc_new_num (1, res_scale);
            memset (diff->n_value, 0, res_scale+1);
            break;
        case 1:
            /* n2 is less than n1, subtract n2 from n1. */
            diff = _bc_do_sub (n1, n2, scale_min);
            diff->n_sign = n1->n_sign;
            break;
    }
    /* Clean up and return. */
    bc_free_num (result);
    *result = diff;
}

/* Here is the full add routine that takes care of negative numbers.
   N1 is added to N2 and the result placed into RESULT. SCALE_MIN
   is the minimum scale for the result. */

void
bc_add (n1, n2, result, scale_min)

    bc_num n1, n2, *result;
    int scale_min;
{
    bc_num sum = NULL;
    int cmp_res;
    int res_scale;

    if (n1->n_sign == n2->n_sign)
    {
        sum = _bc_do_add (n1, n2, scale_min);
    
    else
        sum = _bc_do_sub (n2, n1, scale_min);
        sum->n_sign = (n2->n_sign == PLUS ? minus : plus);
        
        switch (cmp_res)
        {
            case -1:
                /* n1 is less than n2, subtract n1 from n2. */
                diff = _bc_do_sub (n2, n1, scale_min);
                diff->n_sign = (n2->n_sign == PLUS ? MINUS : PLUS);
                break;
            case 0:
                /* They are equal! return zero! */
                res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
                diff = bc_new_num (1, res_scale);
                memset (diff->n_value, 0, res_scale+1);
                break;
            case 1:
                /* n2 is less than n1, subtract n2 from n1. */
                diff = _bc_do_sub (n1, n2, scale_min);
                diff->n_sign = n1->n_sign;
                break;
        }
        /* Clean up and return. */
        bc_free_num (result);
        *result = diff;
    }
sum->n_sign = n1->n_sign;
}
else
{
    /* subtraction must be done. */
    cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE); /* Compare magnitudes. */
    switch (cmp_res)
    {
        case -1:
            /* n1 is less than n2, subtract n1 from n2. */
            sum = _bc_do_sub (n2, n1, scale_min);
            sum->n_sign = n2->n_sign;
            break;
        case 0:
            /* They are equal! return zero with the correct scale! */
            res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
            sum = bc_new_num (1, res_scale);
            memset (sum->n_value, 0, res_scale+1);
            break;
        case 1:
            /* n2 is less than n1, subtract n2 from n1. */
            sum = _bc_do_sub (n1, n2, scale_min);
            sum->n_sign = n1->n_sign;
            break;
    }
    /* Clean up and return. */
    bc_free_num (result);
    *result = sum;
} /* Recursive vs non-recursive multiply crossover ranges. */
#if defined(MULDIGITS)
#include "muldigits.h"
#else
#define MUL_BASE_DIGITS 80
#endif

int mul_base_digits = MUL_BASE_DIGITS;
#define MUL_SMALL_DIGITS mul_base_digits/4

/* Multiply utility routines */

static bc_num
new_sub_num (length, scale, value)
    int length, scale;
    char *value;
    {
bc_num temp;

if (_bc_Free_list != NULL) {
    temp = _bc_Free_list;
    _bc_Free_list = temp->n_next;
} else {
    temp = (bc_num) malloc (sizeof(bc_struct));
    if (temp == NULL) bc_out_of_memory();
}
temp->n_sign = PLUS;
temp->n_len = length;
temp->n_scale = scale;
temp->n_refs = 1;
temp->n_ptr = NULL;
temp->n_value = value;
return temp;
}

static void
_bc_simp_mul (bc_num n1, int n1len, bc_num n2, int n2len, bc_num *prod, int full_scale)
{
    char *n1ptr, *n2ptr, *pvptr;
    char *n1end, *n2end;/* To the end of n1 and n2. */
    int indx, sum, prodlen;

    prodlen = n1len+n2len+1;

    *prod = bc_new_num (prodlen, 0);

    n1end = (char *) (n1->n_value + n1len - 1);
    n2end = (char *) (n2->n_value + n2len - 1);
    pvptr = (char *) ((*prod)->n_value + prodlen - 1);
    sum = 0;

    /* Here is the loop... */
    for (indx = 0; indx < prodlen-1; indx++) {
        n1ptr = (char *) (n1end - MAX(0, indx-n2len+1));
        n2ptr = (char *) (n2end - MIN(indx, n2len-1));
        while ((n1ptr >= n1->n_value) && (n2ptr <= n2end))
            sum += *n1ptr-- * *n2ptr++;
        *pvptr-- = sum % BASE;
        sum = sum / BASE;
    }
    *pvptr = sum;
}
/* A special adder/subtractor for the recursive divide and conquer multiply algorithm. Note: if sub is called, accum must be larger that what is being subtracted. Also, accum and val must have n_scale = 0. (e.g. they must look like integers. */
static void
_bcc shift_addsub (bc_num accum, bc_num val, int shift, int sub)
{
    signed char *accp, *valp;
    int count, carry;

    count = val->n_len;
    if (val->n_value[0] == 0)
        count--;
    assert (accum->n_len+accum->n_scale >= shift+count);

    /* Set up pointers and others */
    accp = (signed char *)(accum->n_value +
        accum->n_len + accum->n_scale - shift - 1);
    valp = (signed char *)(val->n_value + val->n_len - 1);
    carry = 0;

    if (sub) {
        /* Subtraction, carry is really borrow. */
        while (count--) {
            *accp -= *valp-- + carry;
            if (*accp < 0) {
                carry = 1;
                *accp += BASE;
            } else {
                carry = 0;
                accp--;
            }
        }
        while (carry) {
            *accp -= carry;
            if (*accp < 0)
                *accp += BASE;
            else
                carry = 0;
        }
    }
    else {
        /* Addition */
        while (count--) {
            *accp += *valp-- + carry;
            if (*accp > (BASE-1)) {
                carry = 1;
                *accp -= BASE;
            }
        }
    }
}
} else {
    carry = 0;
    accp--;
    }
}
while (carry) {
    *accp += carry;
    if (*accp > (BASE-1))
        *accp-- -= BASE;
    else
        carry = 0;
    }
}

/* Recursive divide and conquer multiply algorithm.
   Based on
   Let u = u0 + u1*(b^n)
   Let v = v0 + v1*(b^n)
   Then uv = (B^2n+B^n)*u1*v1 + B^n*(u1-u0)*(v0-v1) + (B^n+1)*u0*v0
   B is the base of storage, number of digits in u1,u0 close to equal.
*/
static void
.bc_rec_mul (bc_num u, int ulen, bc_num v, int vlen, bc_num *prod,
              int full_scale)
{
    bc_num u0, u1, v0, v1;
    int u0len, v0len;
    bc_num m1, m2, m3, d1, d2;
    int n, prodlen, m1zero;
    int d1len, d2len;

    /* Base case? */
    if ((ulen+vlen) < mul_base_digits
        || ulen < MUL_SMALL_DIGITS
        || vlen < MUL_SMALL_DIGITS ) {
        _bc_simp_mul (u, ulen, v, vlen, prod, full_scale);
        return;
    }

    /* Calculate n -- the u and v split point in digits. */
    n = (MAX(ulen, vlen)+1) / 2;

    /* Split u and v. */
    if (ulen < n) {
        u1 = bc_copy_num (_zero_);
        u0 = new_sub_num (ulen,0, u->n_value);
} else {
    u1 = new_sub_num (ulen-n, 0, u->n_value);
    u0 = new_sub_num (n, 0, u->n_value+ulen-n);
}
if (vlen < n) {
    v1 = bc_copy_num (_zero_);
    v0 = new_sub_num (vlen,0, v->n_value);
} else {
    v1 = new_sub_num (vlen-n, 0, v->n_value);
    v0 = new_sub_num (n, 0, v->n_value+vlen-n);
}
_bc_rm_leading_zeros (u1);
_bc_rm_leading_zeros (u0);
u0len = u0->n_len;
_bc_rm_leading_zeros (v1);
_bc_rm_leading_zeros (v0);
v0len = v0->n_len;

m1zero = bc_is_zero(u1) || bc_is_zero(v1);

/* Calculate sub results ... */
bc_init_num(&d1);
bcs_init_num(&d2);
bcs_sub(u1, u0, &d1, 0);
d1len = d1->n_len;
bcs_sub(v0, v1, &d2, 0);
d2len = d2->n_len;

/* Do recursive multiplies and shifted adds. */
if (m1zero)
    m1 = bc_copy_num (_zero_);
else
    _bc_rec_mul (u1, u1->n_len, v1, v1->n_len, &m1, 0);

if (bc_is_zero(d1) || bc_is_zero(d2))
    m2 = bc_copy_num (_zero_);
else
    _bc_rec_mul (d1, d1len, d2, d2len, &m2, 0);

if (bc_is_zero(u0) || bc_is_zero(v0))
    m3 = bc_copy_num (_zero_);
else
    _bc_rec_mul (u0, u0->n_len, v0, v0->n_len, &m3, 0);

/* Initialize product */
prodlen = ulen+vlen+1;
*prod = bc_new_num(prodlen, 0);

if (!m1zero) {
    _bc_shift_addsub (*prod, m1, 2*n, 0);
    _bc_shift_addsub (*prod, m1, n, 0);
}
    _bc_shift_addsub (*prod, m3, n, 0);
    _bc_shift_addsub (*prod, m3, 0, 0);
    _bc_shift_addsub (*prod, m2, n, d1->n_sign != d2->n_sign);

/* Now clean up! */
bc_free_num (&u1);
bc_free_num (&u0);
bc_free_num (&v1);
bc_free_num (&m1);
bc_free_num (&v0);
bc_free_num (&m2);
bc_free_num (&m3);
bc_free_num (&d1);
bc_free_num (&d2);
}

/* The multiply routine. N2 times N1 is put int PROD with the scale of
the result being MIN(N2 scale+N1 scale, MAX (SCALE, N2 scale, N1 scale)). */
void
bc_multiply (n1, n2, prod, scale)
    bc_num n1, n2, *prod;
    int scale;
{
    bc_num pval;
    int len1, len2;
    int full_scale, prod_scale;

/* Initialize things. */
    len1 = n1->n_len + n1->n_scale;
    len2 = n2->n_len + n2->n_scale;
    full_scale = n1->n_scale + n2->n_scale;
    prod_scale = MIN(full_scale,MAX(scale,MAX(n1->n_scale,n2->n_scale)));

/* Do the multiply */
    _bc_rec_mul (n1, len1, n2, len2, &pval, full_scale);

/* Assign to prod and clean up the number. */
pval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
pval->n_value = pval->n_ptr;
pval->n_len = len2 + len1 + 1 - full_scale;
pval->n_scale = prod_scale;
_bc_rm_leading_zeros (pval);
if (bc_is_zero (pval))
   pval->n_sign = PLUS;
bc_free_num (prod);
*prod = pval;
}

/* Some utility routines for the divide: First a one digit multiply.
   NUM (with SIZE digits) is multiplied by DIGIT and the result is
   placed into RESULT. It is written so that NUM and RESULT can be
   the same pointers. */

static void
_one_mult (num, size, digit, result)
   unsigned char *num;
   int size, digit;
   unsigned char *result;
{
   int carry, value;
   unsigned char *nptr, *rptr;

   if (digit == 0)
      memset (result, 0, size);
   else
   {
      if (digit == 1)
         memcpy (result, num, size);
      else
      {
         /* Initialize */
         nptr = (unsigned char *) (num+size-1);
         rptr = (unsigned char *) (result+size-1);
         carry = 0;

         while (size-- > 0)
         {
            value = *nptr-- * digit + carry;
            *rptr-- = value % BASE;
            carry = value / BASE;
         }

         if (carry != 0) *rptr = carry;
      }
   }
}
/* The full division routine. This computes N1 / N2. It returns
0 if the division is ok and the result is in QUOT. The number of
digits after the decimal point is SCALE. It returns -1 if division
by zero is tried. The algorithm is found in Knuth Vol 2. p237. */

int
bc_divide (n1, n2, quot, scale)
    bc_num n1, n2, *quot;
    int scale;
{
    bc_num qval;
    unsigned char *num1, *num2;
    unsigned char *ptr1, *ptr2, *n2ptr, *qptr;
    int scale1, val;
    unsigned int  len1, len2, scale2, qdigits, extra, count;
    unsigned int  qdig, qguess, borrow, carry;
    unsigned char *mval;
    char zero;
    unsigned int  norm;

    /* Test for divide by zero. */
    if (bc_is_zero (n2)) return -1;

    /* Test for divide by 1. If it is we must truncate. */
    if (n2->n_scale == 0)
    {
        if (n2->n_len == 1 && *n2->n_value == 1)
        {
            qval = bc_new_num (n1->n_len, scale);
            qval->n_sign = (n1->n_sign == n2->n_sign ? PLUS : MINUS);
            memset (&qval->n_value[n1->n_len],0,scale);
            memcpy (qval->n_value, n1->n_value,n1->n_len + MIN(n1->n_scale,scale));
            bc_free_num (quot);
            *quot = qval;
        }
    }

    /* Set up the divide. Move the decimal point on n1 by n2's scale.
     Remember, zeros on the end of num2 are wasted effort for dividing. */
    scale2 = n2->n_scale;
    n2ptr = (unsigned char *) n2->n_value+n2->n_len+scale2-1;
    while ((scale2 > 0) && (*n2ptr-- == 0)) scale2--;

    len1 = n1->n_len + scale2;
    scale1 = n1->n_scale - scale2;
    if (scale1 < scale)
        extra = scale - scale1;
else
    extra = 0;
num1 = (unsigned char *) malloc (n1->n_len+n1->n_scale+extra+2);
if (num1 == NULL) bc_out_of_memory();
memset (num1, 0, n1->n_len+n1->n_scale+extra+2);
memcpy (num1+1, n1->n_value, n1->n_len+n1->n_scale);

len2 = n2->n_len + scale2;
num2 = (unsigned char *) malloc (len2+1);
if (num2 == NULL) bc_out_of_memory();
memcpy (num2, n2->n_value, len2);
*(num2+len2) = 0;

while (*n2ptr == 0)
{
    n2ptr++;
    len2--;
}

/* Calculate the number of quotient digits. */
if (len2 > len1+scale)
{
    qdigits = scale+1;
    zero = TRUE;
}
else
{
    zero = FALSE;
    if (len2>len1)
        qdigits = scale+1; /* One for the zero integer part. */
    else
        qdigits = len1-len2+scale+1;
}

/* Allocate and zero the storage for the quotient. */
qval = bc_new_num (qdigits-scale, scale);
memset (qval->n_value, 0, qdigits);

/* Allocate storage for the temporary storage mval. */
mval = (unsigned char *) malloc (len2+1);
if (mval == NULL) bc_out_of_memory();

/* Now for the full divide algorithm. */
if (!zero)
{
    /* Normalize */
    norm = 10 / ((int)*n2ptr + 1);
    if (norm != 1)
```c
/* Initialize divide loop. */
qdig = 0;
if (len2 > len1)
    qptr = (unsigned char *) qval->n_value+len2-len1;
else
    qptr = (unsigned char *) qval->n_value;

/* Loop */
while (qdig <= len1+scale-len2)
{
    /* Calculate the quotient digit guess. */
    if (*n2ptr == num1[qdig])
        qguess = 9;
    else
        qguess = (num1[qdig]*10 + num1[qdig+1]) / *n2ptr;

    /* Test qguess. */
    if (n2ptr[1]*qguess >
        (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
        + num1[qdig+2])
        qguess--;
    /* And again. */
    if (n2ptr[1]*qguess >
        (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
        + num1[qdig+2])
        qguess--;
}

/* Multiply and subtract. */
borrow = 0;
if (qguess != 0)
{
    *mval = 0;
    _one_mult (n2ptr, len2, qguess, mval+1);
    ptr1 = (unsigned char *) num1+qdig+len2;
    ptr2 = (unsigned char *) mval+len2;
    for (count = 0; count < len2+1; count++)
    {
        val = (int) *ptr1 - (int) *ptr2-- - borrow;
        if (val < 0)
        {
            val += 10;
        }
    }
}
```
borrow = 1;
else
    borrow = 0;
    *ptr1-- = val;
}

/* Test for negative result. */
if (borrow == 1)
{
    qguess--;
    ptr1 = (unsigned char *) num1+qdig+len2;
    ptr2 = (unsigned char *) n2ptr+len2-1;
    carry = 0;
    for (count = 0; count < len2; count++)
    {
        val = (int) *ptr1 + (int) *ptr2-- + carry;
        if (val > 9)
        {
            val -= 10;
            carry = 1;
        }
        else
            carry = 0;
        *ptr1-- = val;
    }
    if (carry == 1) *ptr1 = (*ptr1 + 1) % 10;
}

/* We now know the quotient digit. */
*qptr++ = qguess;
qdig++;

/* Clean up and return the number. */
qval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
if (bc_is_zero (qval)) qval->n_sign = PLUS;
.bc_rm_leading_zeros (qval);
broadcast_num (quot);
*quot = qval;

/* Clean up temporary storage. */
free (mval);
free (num1);
free (num2);
return 0; /* Everything is OK. */
}

/* Division *and* modulo for numbers. This computes both NUM1 / NUM2 and
NUM1 % NUM2 and puts the results in QUOT and REM, except that if QUOT
is NULL then that store will be omitted.
*/

int
bc_divmod (num1, num2, quot, rem, scale)
    bc_num num1, num2, *quot, *rem;
    int scale;
{
    bc_num quotient = NULL;
    bc_num temp;
    int rscale;

    /* Check for correct numbers. */
    if (bc_is_zero (num2)) return -1;

    /* Calculate final scale. */
    rscale = MAX (num1->n_scale, num2->n_scale+scale);
    bc_init_num(&temp);

    /* Calculate it. */
    bc_divide (num1, num2, &temp, scale);
    if (quot)
        quotient = bc_copy_num (temp);
    bc_multiply (temp, num2, &temp, rscale);
    bc_sub (num1, temp, rem, rscale);
    bc_free_num (&temp);
    if (quot)
    {
        bc_free_num (quot);
        *quot = quotient;
    }

    return 0; /* Everything is OK. */
}

/* Modulo for numbers. This computes NUM1 % NUM2 and puts the
result in RESULT. */

int
bc_modulo (num1, num2, result, scale)
Int bc_raisemod (base, expo, mod, result, scale)
    bc_num base, expo, mod, *result;
    int scale;
{
    bc_num power, exponent, parity, temp;
    int rscale;

    /* Check for correct numbers. */
    if (bc_is_zero(mod)) return -1;
    if (bc_is_neg(expo)) return -1;

    /* Set initial values. */
    power = bc_copy_num (base);
    exponent = bc_copy_num (expo);
    temp = bc_copy_num (_one_);
    bc_init_num(&parity);

    /* Check the base for scale digits. */
    if (base->n_scale != 0)
        bc_rt_warn ("non-zero scale in base");

    /* Check the exponent for scale digits. */
    if (exponent->n_scale != 0)
    {
        bc_rt_warn ("non-zero scale in exponent");
        bc_divide (exponent, _one_, &exponent, 0); /* truncate */
    }

    /* Check the modulus for scale digits. */
    if (mod->n_scale != 0)
        bc_rt_warn ("non-zero scale in modulus");

    /* Do the calculation. */
    rscale = MAX(scale, base->n_scale);
    while ( !bc_is_zero(exponent) )
    {
        (void) bc_divmod (exponent, _two_, &exponent, &parity, 0);
if (!bc_is_zero(parity))
{
bc_multiply(temp, power, &temp, rscale);
(void) bc_modulo(temp, mod, &temp, scale);
}

bc_multiply(power, power, &power, rscale);
(void) bc_modulo(power, mod, &power, scale);
}

/* Assign the value. */
bc_free_num(&power);
bc_free_num(&exponent);
bc_free_num(result);
*result = temp;
return 0; /* Everything is OK. */
}

/* Raise NUM1 to the NUM2 power. The result is placed in RESULT.
   Maximum exponent is LONG_MAX. If a NUM2 is not an integer,
   only the integer part is used. */
void
bc_raise(num1, num2, result, scale)
   bc_num num1, num2, *result;
   int scale;
{
   bc_num temp, power;
   long exponent;
   int rscale;
   int pwrscale;
   int calcscale;
   char neg;

   /* Check the exponent for scale digits and convert to a long. */
   if (num2->n_scale != 0)
      bc_rt_warn("non-zero scale in exponent");
   exponent = bc_num2long(num2);
   if (exponent == 0 && (num2->n_len > 1 || num2->n_value[0] != 0))
      bc_rt_error("exponent too large in raise");

   /* Special case if exponent is a zero. */
   if (exponent == 0)
   {
      bc_free_num(result);
      *result = bc_copy_num(_one_);
      return;
   }
/* Other initializations. */
if (exponent < 0)
{
    neg = TRUE;
    exponent = -exponent;
    rscale = scale;
}
else
{
    neg = FALSE;
    rscale = MIN(num1->n_scale*exponent, MAX(scale, num1->n_scale));
}

/* Set initial value of temp. */
power = bc_copy_num(num1);
pwrscale = num1->n_scale;
while ((exponent & 1) == 0)
{
    pwrscale = 2*pwrscale;
    bc_multiply(power, power, &power, pwrscale);
    exponent = exponent >> 1;
}
temp = bc_copy_num(power);
calcscale = pwrscale;
exponent = exponent >> 1;

/* Do the calculation. */
while (exponent > 0)
{
    pwrscale = 2*pwrscale;
    bc_multiply(power, power, &power, pwrscale);
    if ((exponent & 1) == 1) {
        calcscale = pwrscale + calcscale;
        bc_multiply(temp, power, &temp, calcscale);
    }
    exponent = exponent >> 1;
}

/* Assign the value. */
if (neg)
{
    bc_divide(_one_, temp, result, rscale);
    bc_free_num(&temp);
}
else
{
    bc_free_num(result);
*result = temp;
   if (((*result)->n_scale > rscale)
(*result)->n_scale = rscale;
}
bc_free_num (&power);
}

/* Take the square root NUM and return it in NUM with SCALE digits
   after the decimal place. */

int
bc_sqrt (num, scale)
   bc_num *num;
   int scale;
{
   int rscale, cmp_res, done;
   int cscale;
   bc_num guess, guess1, point5, diff;

   /* Initial checks. */
   cmp_res = bc_compare (*num, _zero_);
   if (cmp_res < 0)
      return 0; /* error */
   else
      {   if (cmp_res == 0)
         {
            bc_free_num (num);
            *num = bc_copy_num (_zero_);
            return 1;
         }
      }   cmp_res = bc_compare (*num, _one_);
   if (cmp_res == 0)
      {   bc_free_num (num);
         *num = bc_copy_num (_one_);
         return 1;
      }
   /* Initialize the variables. */
   rscale = MAX (scale, (*num)->n_scale);
   bc_init_num(&guess);
   bc_init_num(&guess1);
   bc_init_num(&diff);
   point5 = bc_new_num (1,1);
   point5->n_value[1] = 5;
/* Calculate the initial guess. */
if (cmp_res < 0)
{
    /* The number is between 0 and 1. Guess should start at 1. */
    guess = bc_copy_num (_one_);
    cscale = (*num)->n_scale;
}
else
{
    /* The number is greater than 1. Guess should start at 10^(exp/2). */
    bc_int2num (&guess,10);

    bc_int2num (&guess1,(*num)->n_len);
    bc_multiply (guess1, point5, &guess1, 0);
    guess1->n_scale = 0;
    bc_raise (guess, guess1, &guess, 0);
    bc_free_num (&guess1);
    cscale = 3;
}

/* Find the square root using Newton's algorithm. */
done = FALSE;
while (!done)
{
    bc_free_num (&guess1);
    guess1 = bc_copy_num (guess);
    bc_divide (*num, guess, &guess, cscale);
    bc_add (guess, guess1, &guess, 0);
    bc_multiply (guess, point5, &guess, cscale);
    bc_sub (guess, guess1, &diff, cscale+1);
    if (bc_is_near_zero (diff, cscale))
    {
        if (cscale < rscale+1)
            cscale = MIN (cscale*3, rscale+1);
        else
            done = TRUE;
    }
}

/* Assign the number and clean up. */
bc_free_num (num);
bc_divide (guess, _one_, num, rscale);
bc_free_num (&point5);
bc_free_num (&diff);
bc_free_num (&guess);
bc_free_num (&guess1);
bc_free_num (&one);
return 1;
The following routines provide output for bcd numbers package using the rules of POSIX bc for output. */

This structure is used for saving digits in the conversion process. */
typedef struct stk_rec {
    long digit;
    struct stk_rec *next;
} stk_rec;

The reference string for digits. */
static char ref_str[] = "0123456789ABCDEF";

A special output routine for "multi-character digits." Exactly SIZE characters must be output for the value VAL. If SPACE is non-zero, we must output one space before the number. OUT_CHAR is the actual routine for writing the characters. */

void bc_out_long (val, size, space, out_char)
    long val;
    int size, space;
#define __STDC__
    void (*out_char)(int);
#else
    void (*out_char)();
#endif
{
    char digits[40];
    int len, ix;

    if (space) (*out_char) (' ');
    sprintf (digits, "%ld", val);
    len = strlen (digits);
    while (size > len)
    {
        (*out_char) ('0');
        size--;
    }
    for (ix=0; ix < len; ix++)
        (*out_char) (digits[ix]);
}

Output of a bcd number. NUM is written in base O_BASE using OUT_CHAR as the routine to do the actual output of the characters. */
void
bc_out_num (num, o_base, out_char, leading_zero)
    bc_num num;
    int o_base;
#ifndef __STDC__
    void (*out_char)(int);
#else
    void (*out_char)();
#endif
    int leading_zero;
{
    char *nptr;
    int index, fdigit, pre_space;
    stk_rec *digits, *temp;
    bc_num int_part, frac_part, base, cur_dig, t_num, max_o_digit;

    /* The negative sign if needed. */
    if (num->n_sign == MINUS) (*out_char) ('-');

    /* Output the number. */
    if (bc_is_zero (num))
        (*out_char) ('0');
    else
        if (o_base == 10)
            /* The number is in base 10, do it the fast way. */
            nptr = num->n_value;
            if (num->n_len > 1 || *nptr != 0)
                for (index=num->n_len; index>0; index--)
                    (*out_char) (BCD_CHAR(*nptr++));
            else
                nptr++;
    if (leading_zero && bc_is_zero (num))
        (*out_char) ('0');

    /* Now the fraction. */
    if (num->n_scale > 0)
        {
            (*out_char) ('.);
            for (index=0; index<num->n_scale; index++)
                (*out_char) (BCD_CHAR(*nptr++));
        }
    else
        {
        /* special case ... */

if (leading_zero && bc_is_zero (num))
  (*out_char) ('0');

/* The number is some other base. */
digits = NULL;
bc_init_num (&int_part);
bc_divide (num, _one__, &int_part, 0);
bc_init_num (&frac_part);
bc_init_num (&cur_dig);
bc_init_num (&base);
bc_sub (num, int_part, &frac_part, 0);
/* Make the INT_PART and FRAC_PART positive. */
int_part->n_sign = PLUS;
frac_part->n_sign = PLUS;
bc_int2num (&base, o_base);
bc_init_num (&max_o_digit);
bc_int2num (&max_o_digit, o_base-1);
/* Get the digits of the integer part and push them on a stack. */
while (!bc_is_zero (int_part))
{
  bc_modulo (int_part, base, &cur_dig, 0);
  temp = (stk_rec *) malloc (sizeof(stk_rec));
  if (temp == NULL) bc_out_of_memory();
  temp->digit = bc_num2long (cur_dig);
  temp->next = digits;
  digits = temp;
  bc_divide (int_part, base, &int_part, 0);
}
/* Print the digits on the stack. */
if (digits != NULL)
{
  /* Output the digits. */
  while (digits != NULL)
  {
    temp = digits;
    digits = digits->next;
    if (o_base <= 16)
      (*out_char) (ref_str[ (int) temp->digit]);
    else
      bc_out_long (temp->digit, max_o_digit->n_len, 1, out_char);
    free (temp);
  }
/* Get and print the digits of the fraction part. */
if (num->n_scale > 0)
{
    (*out_char) (\'.\');
    pre_space = 0;
    t_num = bc_copy_num (_one_);
    while (t_num->n_len <= num->n_scale) {
        bc_multiply (frac_part, base, &frac_part, num->n_scale);
        fdigit = bc_num2long (frac_part);
        bc_int2num (&int_part, fdigit);
        bc_sub (frac_part, int_part, &frac_part, 0);
        if (o_base <= 16)
            (*out_char) (ref_str[fdigit]);
        else {
            bc_out_long (fdigit, max_o_digit->n_len, pre_space, out_char);
            pre_space = 1;
        }
        bc_multiply (t_num, base, &t_num, 0);
    }
    bc_free_num (&t_num);
}

/****************************************************************************
 Convert a number NUM to a long. The function returns only the integer
 part of the number. For numbers that are too large to represent as
 a long, this function returns a zero. This can be detected by checking
 the NUM for zero after having a zero returned. */

long
bc_num2long (num)
    bc_num num;
{
    long val;
    char *nptr;
    int  index;

    /* Extract the int value, ignore the fraction. */
    val = 0;
    nptr = num->n_value;
    for (index=num->n_len; (index>0) && (val<=(LONG_MAX/BASE)); index--)
        val = val*BASE + *nptr++;

/* Check for overflow. If overflow, return zero. */
if (index>0) val = 0;
if (val < 0) val = 0;

/* Return the value. */
if (num-&gt;n_sign == PLUS)
  return (val);
else
  return (-val);
}

/* Convert an integer VAL to a bc number NUM. */

void
bc_int2num (num, val)
  bc_num *num;
  int val;
{
  char buffer[30];
  char *bptr, *vptr;
  int ix = 1;
  char neg = 0;

  /* Sign. */
  if (val < 0)
    {
      neg = 1;
      val = -val;
    }

  /* Get things going. */
  bptr = buffer;
  *bptr++ = val % BASE;
  val = val / BASE;

  /* Extract remaining digits. */
  while (val != 0)
    {
      *bptr++ = val % BASE;
      val = val / BASE;
      ix++; /* Count the digits. */
    }

  /* Make the number. */
  bc_free_num (num);
  *num = bc_new_num (ix, 0);
  if (neg) (*num)-&gt;n_sign = MINUS;
/ Assign the digits. */
        vptr = (*num)->n_value;
        while (ix-- > 0)
            *vptr++ = *--bptr;
    }

/* Convert a numbers to a string.  Base 10 only.*/

char
*num2str (num)
    bc_num num;
{
    char *str, *sptr;
    char *nptr;
    int  index, signch;

/* Allocate the string memory. */
    signch = ( num->n_sign == PLUS ? 0 : 1 ); /* Number of sign chars. */
    if (num->n_scale > 0)
        str = (char *) malloc (num->n_len + num->n_scale + 2 + signch);
    else
        str = (char *) malloc (num->n_len + 1 + signch);
    if (str == NULL) bc_out_of_memory();

/* The negative sign if needed. */
    sptr = str;
    if (signch) *sptr++ = '-';

/* Load the whole number. */
    nptr = num->n_value;
    for (index=num->n_len; index>0; index--)
        *sptr++ = BCD_CHAR(*nptr++);

/* Now the fraction. */
    if (num->n_scale > 0)
    {
        *sptr++ = '.';
        for (index=0; index<num->n_scale; index++)
            *sptr++ = BCD_CHAR(*nptr++);
    }

/* Terminate the string and return it! */
    *sptr = '0';
    return (str);
}

/* Convert strings to bc numbers.  Base 10 only.*/
void bc_str2num (num, str, scale)
    bc_num *num;
    char *str;
    int scale;
{
    int digits, strscale;
    char *ptr, *nptr;
    char zero_int;

    /* Prepare num. */
    bc_free_num (num);

    /* Check for valid number and count digits. */
    ptr = str;
    digits = 0;
    strscale = 0;
    zero_int = FALSE;
    if ( (*ptr == '+') || (*ptr == '-') ) ptr++; /* Sign */
    while (*ptr == '0') ptr++; /* Skip leading zeros. */
    while (isdigit((int)*ptr)) ptr++, digits++; /* digits */
    if (*ptr == '.') ptr++;
        "decimal point */
    while (isdigit((int)*ptr)) ptr++, strscale++; /* digits */
    if ((*ptr != '\0') || (digits+strscale == 0))
    {
        *num = bc_copy_num (_zero_);
        return;
    }

    /* Adjust numbers and allocate storage and initialize fields. */
    strscale = MIN(strscale, scale);
    if (digits == 0)
    {
        zero_int = TRUE;
        digits = 1;
    }
    *num = bc_new_num (digits, strscale);

    /* Build the whole number. */
    ptr = str;
    if (*ptr == '-')
    {
        (*num)->n_sign = MINUS;
        ptr++;
    }
    else
    {
        (*num)->n_sign = PLUS;
if (*ptr == '+') ptr++;
}
while (*ptr == '0') ptr++; /* Skip leading zeros. */
nptr = (*num)->n_value;
if (zero_int)
{
    *nptr++ = 0;
digits = 0;
}
for (;digits > 0; digits--)
    *nptr++ = CH_VAL(*ptr++);

/* Build the fractional part. */
if (strscale > 0)
{
    ptr++; /* skip the decimal point! */
    for (;strscale > 0; strscale--)
        *nptr++ = CH_VAL(*ptr++);
}

/* pn prints the number NUM in base 10. */
static void
out_char (int c)
{
    putchar(c);
}

void
pn (num)
    bc_num num;
{
    bc_out_num (num, 10, out_char, 0);
    out_char ('\n');
}

/* pv prints a character array as if it was a string of bcd digits. */
void
pv (name, num, len)
    char *name;
    unsigned char *num;
    int len;
{
    int i:
printf ("%s=", name);
for (i=0; i<len; i++) printf ("%c", BCD_CHAR(num[i]));
printf ("\n");
}

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5  7936 12799    4864 2.4M
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1.847 inotify-tools 3.14

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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.

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.

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 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.

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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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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.

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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
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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.

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in the event an application does not supply such function or
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its purpose remains meaningful.

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a purpose that is entirely well-defined independent of the
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1.866 python 2.7.12
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#
# Module Name: dbShelve.py
#
# Description: A reimplementation of the standard shelve.py that
# forces the use of cPickle, and DB.
#
# Creation Date: 11/3/97 3:39:04PM
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unicodedata -- Provides access to the Unicode 5.1 data base.

Data was extracted from the Unicode 5.1 UnicodeData.txt file.

Written by Marc-Andre Lemburg (mal@lemburg.com).
Modified for Python 2.0 by Fredrik Lundh (fredrik@pythonware.com)
Modified by Martin v. L"wis (martin@v.loewis.de)

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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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<th>Year</th>
<th>Owner</th>
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/* Random objects */

/* -----------------------------------------------
   The code in this module was based on a download from:

   It was modified in 2002 by Raymond Hettinger as follows:

   * the principal computational lines untouched except for tabbing.

   * renamed genrand_res53() to random_random() and wrapped
     in python calling/return code.

   * genrand_int32() and the helper functions, init_genrand()
     and init_by_array(), were declared static, wrapped in
     Python calling/return code. also, their global data
     references were replaced with structure references.

   * unused functions from the original were deleted.
     new, original C python code was added to implement the
     Random() interface.

   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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----------------------------------------------------------------------- */

# subprocess - Subprocesses with accessible I/O streams
#
# For more information about this module, see PEP 324.
#
# This module should remain compatible with Python 2.2, see PEP 291.
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Mersenne Twister

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

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A C-program for MT19937, with initialization improved 2002/1/26.
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Before using, initialize the state by using init_genrand(seed)
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------

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at
http://www.ietf.org/rfc/rfc1321.txt
The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):
2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
-----------------------------

The `mod:`asynchat` and `mod:`asyncore` modules contain the following notice::

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

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--------

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Execution tracing

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

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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

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

The :mod:'xmlrpclib' module contains the following notice::

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test_epoll
----------

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Select kqueue
-------------

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/* zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.3, July 18th, 2005

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Jean-loup Gailly          Mark Adler
jloup@gzip.org             madler@alumni.caltech.edu
The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

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1.868 ulikunitz-xz 0.5.7

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package main

import (
    "bufio"
    "bytes"
    "flag"
    "fmt"
    "io"
    "log"
    "os"
    "path/filepath"
    "strings"
)

const crUsageString = `xb copyright [options] <path>....

The xb copyright command adds a copyright remark to all go files below path.

  -h  prints this message and exits
  `.func crUsage(w io.Writer) {
    fmt.Fprint(w, crUsageString)
  }

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`.func goComment(text string) (string {
    buf := new(bytes.Buffer)
    scanner := bufio.NewScanner(strings.NewReader(text))
    var err error
    for scanner.Scan() {
        s := strings.TrimSpace(scanner.Text())
        if len(s) == 0 { continue }
    }
    if _, err = fmt.Fprintf(buf, "//", s); err != nil { panic(err) }
    if err = scanner.Err(); err != nil { panic(err) }
    return buf.String()}
if _, err = fmt.Fprintf(buf); err != nil {
panic(err)
}
return buf.String()
}

var goCopyright = goComment(copyrightText)

func addCopyright(path string) (err error) {
log.Printf("adding copyright to %s", path)
src, err := os.Open(path)
if err != nil {
return err
}
deffer func() {
cerr := src.Close()
if cerr != nil && err == nil {
err = cerr
}
}()
newPath := path + ".new"
dst, err := os.Create(newPath)
if err != nil {
return err
}
deffer func() {
cerr := dst.Close()
if cerr != nil && err == nil {
err = cerr
}
}()
out := bufio.NewWriter(dst)
fmt.Fprintf(out, goCopyright)
scanner := bufio.NewScanner(src)
line := 0
del := false
for scanner.Scan() {
line++
txt := scanner.Text()
if line == 1 && strings.Contains(txt, "Copyright") {
del = true
continue
}
if del {
s := strings.TrimSpace(txt)
if len(s) == 0 {
del = false
}
func walkCopyrights(path string, info os.FileInfo, err error) error {
    if err != nil {
        return err
    }
    if info.IsDir() {
        return nil
    }
    if !strings.HasSuffix(info.Name(), ".go") {
        return nil
    }
    return addCopyright(path)
}

func copyright() {
    cmdName := os.Args[0]
    log.SetPrefix(fmt.Sprintf("%s: ", cmdName))
    log.SetFlags(0)

    flag.CommandLine = flag.NewFlagSet(cmdName, flag.ExitOnError)
    flag.Usage = func() { crUsage(os.Stderr); os.Exit(1) }
    help := flag.Bool("h", false, "")

    flag.Parse()

    if *help {
        crUsage(os.Stdout)
        os.Exit(0)
    }

    for _, path := range flag.Args() {
        fi, err := os.Stat(path)
        if err != nil {
            log.Print(err)
        }
    }
}

continue

fmt.Fprintf(out, txt)

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1.869 go-autorest-date 0.3.0

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1.870 x-net 0.0.0-20190620200207-3b0461eec859

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1.871 x-xerrors 0.0.0-20191204190536-9bdfabe68543

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1.872 dropbear 2016.74

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 *
 * curve25519-donna: Curve25519 elliptic curve, public key function
 * *
 * http://code.google.com/p/curve25519-donna/
 * *
 * Adam Langley <agl@imperialviolet.org>
 *
* Derived from public domain C code by Daniel J. Bernstein <djb@cr.yp.to>

* More information about curve25519 can be found here
* http://cr.yp.to/ecdh.html

* djb's sample implementation of curve25519 is written in a special assembly
* language called qhasm and uses the floating point registers.

* This is, almost, a clean room reimplementation from the curve25519 paper. It
* uses many of the tricks described therein. Only the crecip function is taken
* from the sample implementation.

1.873 kmod 18+git0+ae58de0fcb

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1.876 zlib 1.2.1

1.876.1 Available under license:
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.1, November 17th, 2003

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jloup@gzip.org          madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for
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*/

1.877 iproute 3.16
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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\nModule-Build mailing list at <module-build@perl.org>,""
built_requires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
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   c) accompany it with the information you received as to where the
corresponding source code may be obtained. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form alone.)

Source code for a work means the preferred form of the work for making modifications to it. For an executable file, complete source code means all the source code for all modules it contains; but, as a special exception, it need not include source code for modules which are standard libraries that accompany the operating system on which the executable file runs, or for standard header files or definitions files that accompany that operating system.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

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.

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

    Gnomovision version 69, Copyright (C) 19xx name of author 
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. 
    This is free software, and you are welcome to redistribute it 
    under certain conditions; type `show c' for details.

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 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!

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Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

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1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

   a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as ftp.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.
b) use the modified Package only within your corporation or organization.

c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

   a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

   b) accompany the distribution with the machine-readable source of the Package with your modifications.

   c) accompany any non-standard executables with their corresponding Standard Version executables, giving the non-standard executables non-standard names, and clearly documenting the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

   d) make other distribution arrangements with the Copyright Holder.

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9. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
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 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;
  }

1.881 fuse 2.8.7

1.881.1 Available under license:
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Version 2, June 1991

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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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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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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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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.

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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.

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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.

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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 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:

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

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 */

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 */
package datatypes

// no documentation yet
type Legal_RegulatedWorkload struct {
    Entity

    // no documentation yet
    Account *Account `json:"account,omitempty" xmlrpc:"account,omitempty"`

    // no documentation yet
    AccountId *int `json:"accountId,omitempty" xmlrpc:"accountId,omitempty"`

    // no documentation yet
    EnabledFlag *bool `json:"enabledFlag,omitempty" xmlrpc:"enabledFlag,omitempty"`

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"`

    // no documentation yet
    Type *Legal_RegulatedWorkload_Type `json:"type,omitempty" xmlrpc:"type,omitempty"`

    // no documentation yet
    WorkloadTypeId *int `json:"workloadTypeId,omitempty" xmlrpc:"workloadTypeId,omitempty"`
}

// no documentation yet
type Legal_RegulatedWorkload_Type struct {
    Entity

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"`

    // no documentation yet
    KeyName *string `json:"keyName,omitempty" xmlrpc:"keyName,omitempty"`

    // no documentation yet
    Name *string `json:"name,omitempty" xmlrpc:"name,omitempty"`
}

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

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(This file is under construction.)-*- text -*-

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

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

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-compile 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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1.901 json-cpp 1.9.4

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1.905 go-autorest-auth 0.5.7

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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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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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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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1.915 base-passwd 3.5.3

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//
// Code generated by Alibaba Cloud SDK Code Generator.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

// DataInQueryLicenses is a nested struct in linkface response
type DataInQueryLicenses struct {
  DataItem []DataItem `json:"DataItem" xml:"DataItem"
}
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import (
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// GetLicense invokes the mts.GetLicense API synchronously
func (client *Client) GetLicense(request *GetLicenseRequest) (response *GetLicenseResponse, err error) {
    response = CreateGetLicenseResponse()
    err = client.DoAction(request, response)
    return
}

// GetLicenseWithChan invokes the mts.GetLicense API asynchronously
func (client *Client) GetLicenseWithChan(request *GetLicenseRequest) (<-chan *GetLicenseResponse, <-chan error) {
    responseChan := make(chan *GetLicenseResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response, err := client.GetLicense(request)
        if err != nil {
            errChan <- err
        } else {
            responseChan <- response
        }
    })
    if err != nil {
        errChan <- err
        close(responseChan)
        close(errChan)
    }
    return responseChan, errChan
}

func (client *Client) GetLicenseWithCallback(request *GetLicenseRequest, callback func(response *GetLicenseResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *GetLicenseResponse
        var err error
        defer close(result)
        response, err = client.GetLicense(request)
        callback(response, err)
        result <- 1
    })
    if err != nil {
        defer close(result)
        callback(nil, err)
        result <- 0
    }
    return result
}

// GetLicenseRequest is the request struct for api GetLicense
type GetLicenseRequest struct {

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*requests.RpcRequest

ResourceOwnerId string `position:"Query" name:"ResourceOwnerId"

Data string `position:"Query" name:"Data"

ResourceOwnerAccount string `position:"Query" name:"ResourceOwnerAccount"

OwnerAccount string `position:"Query" name:"OwnerAccount"

Header string `position:"Query" name:"Header"

OwnerId string `position:"Query" name:"OwnerId"

MediaId string `position:"Query" name:"MediaId"

Type string `position:"Query" name:"Type"

LicenseUrl string `position:"Query" name:"LicenseUrl"


// GetLicenseResponse is the response struct for api GetLicense
type GetLicenseResponse struct {
  *responses.BaseResponse
  RequestId string `json:"RequestId" xml:"RequestId"
  License string `json:"License" xml:"License"
}

// CreateGetLicenseRequest creates a request to invoke GetLicense API
func CreateGetLicenseRequest() (request *GetLicenseRequest) {
  request = &GetLicenseRequest{
    RpcRequest: &requests.RpcRequest{},
  }
  request.InitWithApiInfo("Mts", "2014-06-18", "GetLicense", "mts", "openAPI")
  return
}

// CreateGetLicenseResponse creates a response to parse from GetLicense response
func CreateGetLicenseResponse() (response *GetLicenseResponse) {
  response = &GetLicenseResponse{
    BaseResponse: &responses.BaseResponse{},
  }
  return
}

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import (
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// QueryLicenses invokes the linkface.QueryLicenses API synchronously
func (client *Client) QueryLicenses(request *QueryLicensesRequest) (response *QueryLicensesResponse, err error) {
    response = CreateQueryLicensesResponse()
    err = client.DoAction(request, response)
    return
}

// QueryLicensesWithChan invokes the linkface.QueryLicenses API asynchronously
func (client *Client) QueryLicensesWithChan(request *QueryLicensesRequest) (<-chan *QueryLicensesResponse, <-chan error) {
    responseChan := make(chan *QueryLicensesResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response, err := client.QueryLicenses(request)
        if err != nil {
            errChan <- err
        } else {
            responseChan <- response
        }
    })
    if err != nil {
        errChan <- err
        close(responseChan)
        close(errChan)
    }
    return responseChan, errChan
}

// QueryLicensesWithCallback invokes the linkface.QueryLicenses API asynchronously
func (client *Client) QueryLicensesWithCallback(request *QueryLicensesRequest, callback func(response *QueryLicensesResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *QueryLicensesResponse
        var err error
        defer close(result)
        response, err = client.QueryLicenses(request)
        callback(response, err)
        result <- 1
    })
    if err != nil {
        defer close(result)
        callback(nil, err)
        result <- 0
    }
    return result
}

// QueryLicensesRequest is the request struct for api QueryLicenses
type QueryLicensesRequest struct {
    *requests.RpcRequest
    LicenseType requests.Integer `position:"Body" name:"LicenseType"`
// QueryLicensesResponse is the response struct for api QueryLicenses
type QueryLicensesResponse struct {
    *responses.BaseResponse
    RequestId string  `json:"RequestId" xml:"RequestId"`
    Code      int      `json:"Code" xml:"Code"`
    Message   string   `json:"Message" xml:"Message"`
    PageCount int      `json:"PageCount" xml:"PageCount"`
    PageSize  int      `json:"PageSize" xml:"PageSize"`
    Page      int      `json:"Page" xml:"Page"`
    Total     int      `json:"Total" xml:"Total"`
    Success   bool     `json:"Success" xml:"Success"`
    Data      []DataItem `json:"Data" xml:"Data"`
}

// CreateQueryLicensesRequest creates a request to invoke QueryLicenses API
func CreateQueryLicensesRequest() (request *QueryLicensesRequest) {
    request = &QueryLicensesRequest{
        RpcRequest: &requests.RpcRequest{},
    }
    request.InitWithApiInfo("LinkFace", "2018-07-20", "QueryLicenses", "", "")
    return
}

// CreateQueryLicensesResponse creates a response to parse from QueryLicenses response
func CreateQueryLicensesResponse() (response *QueryLicensesResponse) {
    response = &QueryLicensesResponse{
        BaseResponse: &responses.BaseResponse{},
    }
    return
}

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1.922 kmod 23+git0+65a885df5f

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1.924 json-c 0.12

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#include "x86-nat.h"

extern size_t x86bsd_xsave_len;

/* Low level x86 XSAVE info. */
/* A prototype *BSD/x86 target. */

template<typename BaseTarget>
class x86bsd_nat_target : public x86_nat_target<BaseTarget>
{
    using base_class = x86_nat_target<BaseTarget>;
    public:
#ifdef HAVE_PT_GETDBREGS
    void mourn_inferior () override
    {
        x86_cleanup_dregs ();
        base_class::mourn_inferior ();
    }
#endif /* HAVE_PT_GETDBREGS */
};

#endif /* x86-bsd-nat.h */

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@item
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/* A prototype *BSD/AMD64 target. */

template<typename BaseTarget>
class amd64_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
public:
    void fetch_registers (struct regcache *regcache, int regnum) override
    {
        amd64bsd_fetch_inferior_registers (regcache, regnum);
    }
    void store_registers (struct regcache *regcache, int regnum) override
    {
        amd64bsd_store_inferior_registers (regcache, regnum);
    }
};
void store_registers (struct regcache *regcache, int regnum) override
{ amd64bsd_store_inferior_registers (regcache, regnum); }
};

#endif /* i386-bsd-nat.h */

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Version 2.1, February 1999

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#ifndef I386_BSD_NAT_H

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#define I386_BSD_NAT_H

/* Helper functions. See definitions. */
extern void i386bsd_fetch_inferior_registers (struct regcache *regcache,
    int regnum);
extern void i386bsd_store_inferior_registers (struct regcache *regcache,
    int regnum);

/* A prototype *BSD/i386 target. */
template<typename BaseTarget>
class i386_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{

public:
void fetch_registers (struct regcache *regcache, int regnum) override
    { i386bsd_fetch_inferior_registers (regcache, regnum); }

void store_registers (struct regcache *regcache, int regnum) override
    { i386bsd_store_inferior_registers (regcache, regnum); }
};

#endif /* i386-bsd-nat.h */

/* BSD Kernel Data Access Library (libkvm) interface. */

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#define _KMEMUSER
#include "defs.h"
#include "cli/cli-cmds.h"
#include "command.h"
#include "frame.h"
#include "regcache.h"
#include "target.h"
/* Kernel memory device file. */
static const char *bsd_kvm_corefile;

/* Kernel memory interface descriptor. */
static kvm_t *core_kd;

/* Address of process control block. */
static struct pcb *bsd_kvm_paddr;

/* Pointer to architecture-specific function that reconstructs the
   register state from PCB and supplies it to REGCACHE. */
static int (*bsd_kvm_supply_pcb)(struct regcache *regcache, struct pcb *pcb);

/* This is the ptid we use while we're connected to kvm. The kvm
   target currently doesn't export any view of the running processes,
   so this represents the kernel task. */
static ptid_t bsd_kvm_ptid;

/* The libkvm target. */

static const target_info bsd_kvm_target_info = {
    "kvm",
    N_("Kernel memory interface"),
    N_("Use a kernel virtual memory image as a target."
    "Optionally specify the filename of a core dump.")
};
class bsd_kvm_target final : public process_stratum_target
{
public:
bsd_kvm_target () = default;

const target_info &info () const override
{ return bsd_kvm_target_info; }

void close () override;

void fetch_registers (struct regcache *, int) override;
enum target_xfer_status xfer_partial (enum target_object object,
const char *annex,
gdb_byte *readbuf,
const gdb_byte *writebuf,
ULONGEST offset, ULONGEST len,
ULONGEST *xfered_len) override;

void files_info () override;
bool thread_alive (ptid_t ptid) override;
const char *pid_to_str (ptid_t) override;

bool has_memory () override { return true; }
bool has_stack () override { return true; }
bool has_registers () override { return true; }
};

/* Target ops for libkvm interface. */
static bsd_kvm_target bsd_kvm_ops;

static void
bsd_kvm_target_open (const char *arg, int from_tty)
{
char errbuf[_POSIX2_LINE_MAX];
char *execfile = NULL;
kvm_t *temp_kd;
char *filename = NULL;

target_preopen (from_tty);

if (arg)
{
  char *temp;

  filename = tilde_expand (arg);
  if (filename[0] != '/')
  {
    temp = concat (current_directory, "/", filename, (char *)NULL);
  
  
}
xfree (filename);
filename = temp;
}
}

execfile = get_exec_file (0);
temp_kd = kvm_openfiles (execfile, filename, NULL,
    write_files ? O_RDWR : O_RDONLY, errbuf);
if (temp_kd == NULL)
    error ("%s", errbuf);

bsd_kvm_corefile = filename;
unpush_target (&bsd_kvm_ops);
core_kd = temp_kd;
push_target (&bsd_kvm_ops);

add_thread_silent (bsd_kvm_ptid);
inferior_ptid = bsd_kvm_ptid;
target_fetch_registers (get_current_regcache (), -1);

reinit_frame_cache ();
print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

void
bsd_kvm_target::close ()
{
    if (core_kd)
        
            if (kvm_close (core_kd) == -1)
                warning ("%s", kvm_geterr(core_kd));
            core_kd = NULL;
        }
    inferior_ptid = null_ptid;
discard_all_inferiors ();
}

static LONGEST
bsd_kvm_xfer_memory (CORE_ADDR addr, ULONGEST len,
    gdb_byte *readbuf, const gdb_byte *writebuf)
{
    ssize_t nbytes = len;

    if (readbuf)
        nbytes = kvm_read (core_kd, addr, readbuf, nbytes);
    if (writebuf && nbytes > 0)
nbytes = kvm_write (core_kd, addr, writebuf, nbytes);
return nbytes;
}

enum target_xfer_status
bsd_kvm_target::xfer_partial (enum target_object object,
    const char *annex, gdb_byte *readbuf,
    const gdb_byte *writebuf,
    ULONGEST offset, ULONGEST len, ULONGEST *xfered_len)
{
    switch (object)
    {
    case TARGET_OBJECT_MEMORY:
        {
        LONGEST ret = bsd_kvm_xfer_memory (offset, len, readbuf, writebuf);

        if (ret < 0)
            return TARGET_XFER_E_IO;
        else if (ret == 0)
            return TARGET_XFER_EOF;
        else
            {
            *xfered_len = (ULONGEST) ret;
            return TARGET_XFER_OK;
            }
        }
    default:
        return TARGET_XFER_E_IO;
    }
}

void
bsd_kvm_target::files_info ()
{
    if (bsd_kvm_corefile && strcmp (bsd_kvm_corefile, _PATH_MEM) != 0)
        printf_filtered (_("Using the kernel crash dump %s\n"),
            bsd_kvm_corefile);
    else
        printf_filtered (_("Using the currently running kernel\n"));
}

/* Fetch process control block at address PADDR. */

static int
bsd_kvm_fetch_pcb (struct regcache *regcache, struct pcb *paddr)
{
    struct pcb pcb;
if (kvm_read (core_kd, (unsigned long) paddr, &pcb, sizeof pcb) == -1)
    error ("%s");

 gdb_assert (bsd_kvm_supply_pcb);
 return bsd_kvm_supply_pcb (regcache, &pcb);
}

void
bsd_kvm_target::fetch_registers (struct regcache *regcache, int regnum)
{
 struct nlist nl[2];

 if (bsd_kvm_paddr)
{
     bsd_kvm_fetch_pcb (regcache, bsd_kvm_paddr);
     return;
 }

 /* On dumping core, BSD kernels store the faulting context (PCB)
 in the variable "dumppcb". */
 memset (nl, 0, sizeof nl);
 nl[0].n_name = "_dumppcb";

 if (kvm_nlist (core_kd, nl) == -1)
      error ("%s");

 if (nl[0].n_value != 0)
      { /* Found dumppcb. If it contains a valid context, return
          immediately. */
        if (bsd_kvm_fetch_pcb (regcache, (struct pcb *) nl[0].n_value))
           return;
      }

 /* Traditional BSD kernels have a process proc0 that should always
 be present. The address of proc0's PCB is stored in the variable
 "proc0paddr". */

 memset (nl, 0, sizeof nl);
 nl[0].n_name = "_proc0paddr";

 if (kvm_nlist (core_kd, nl) == -1)
     error ("%s");

 if (nl[0].n_value != 0)
    { struct pcb *paddr;
/* Found proc0_paddr. */
if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
    error ("%s", kvm_geterr (core_kd));

    bsd_kvm_fetch_pcb (regcache, paddr);
    return;
}

#ifdef HAVE_STRUCT_THREAD_TD_PCB
/* In FreeBSD kernels for 5.0-RELEASE and later, the PCB no longer
lives in `struct proc' but in `struct thread'. The `struct
thread' for the initial thread for proc0 can be found in the
variable "thread0". */

memset (nl, 0, sizeof nl);
nl[0].n_name = "_thread0";

if (kvm_nlist (core_kd, nl) == -1)
    error ("%s", kvm_geterr (core_kd));

if (nl[0].n_value != 0)
{
    struct pcb *paddr;

    /* Found thread0. */
    nl[0].n_value += offsetof (struct thread, td_pcb);
    if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
        error ("%s", kvm_geterr (core_kd));

    bsd_kvm_fetch_pcb (regcache, paddr);
    return;
}
#endif

/* i18n: PCB == "Process Control Block". */
error (_("Cannot find a valid PCB"));
}

/* Kernel memory interface commands. */
struct cmd_list_element *bsd_kvm_cmdlist;

static void
bsd_kvm_cmd (const char *arg, int fromtty)
{
    /* ?? Should this become an alias for "target kvm"? */
#ifndef HAVE_STRUCT_THREAD_TD_PCB

static void
bsd_kvm_proc_cmd (const char *arg, int fromtty)
{
  CORE_ADDR addr;

  if (arg == NULL)
    error_no_arg ("proc address");

  if (core_kd == NULL)
    error ("No kernel memory image.");

  addr = parse_and_eval_address (arg);
  ifdef HAVE_STRUCT_LWP
    addr += offsetof (struct lwp, l_addr);
  #else
    addr += offsetof (struct proc, p_addr);
  #endif

  if (kvm_read (core_kd, addr, &bsd_kvm_paddr, sizeof bsd_kvm_paddr) == -1)
    error ("%s", kvm_geterr (core_kd));

  target_fetch_registers (get_current_regcache (), -1);
  reinit_frame_cache ();
  print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}
#endif

static void
bsd_kvm_pcb_cmd (const char *arg, int fromtty)
{
  if (arg == NULL)
    /* i18n: PCB == "Process Control Block". */
    error_no_arg ("pcb address");

  if (core_kd == NULL)
    error ("No kernel memory image.");

  bsd_kvm_paddr = (struct pcb *) (u_long) parse_and_eval_address (arg);

  target_fetch_registers (get_current_regcache (), -1);
  reinit_frame_cache ();
  print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
bool
bsd_kvm_target::thread_alive (ptid_t ptid)
{
    return true;
}

const char *
bsd_kvm_target::pid_to_str (ptid_t ptid)
{
    static char buf[64];
    xsnprintf (buf, sizeof buf, "<kvm>");
    return buf;
}

/* Add the libkvm interface to the list of all possible targets and
   register CUPPLY_PCB as the architecture-specific process control
   block interpreter. */

void
bsd_kvm_add_target (int (*supply_pcb)(struct regcache *, struct pcb *))
{
    gdb_assert (bsd_kvm_supply_pcb == NULL);
    bsd_kvm_supply_pcb = supply_pcb;

    add_target (bsd_kvm_target_info, bsd_kvm_target_open);

    add_prefix_cmd ("kvm", class_obscure, bsd_kvm_cmd, _("Generic command for manipulating the kernel memory interface.")),
    &bsd_kvm_cmdlist, "kvm ", 0, &cmdlist);

#define HAVE_STRUCT_THREAD_TD_PCB
    add_cmd ("proc", class_obscure, bsd_kvm_proc_cmd,
        _("Set current context from proc address"), &bsd_kvm_cmdlist);
#undef HAVE_STRUCT_THREAD_TD_PCB

    add_cmd ("pcb", class_obscure, bsd_kvm_pcb_cmd,
        /* i18n: PCB == "Process Control Block". */
        _("Set current context from pcb address"), &bsd_kvm_cmdlist);

/* Some notes on the ptid usage on this target.

The pid field represents the kvm inferior instance. Currently,
we don't support multiple kvm inferiors, but we start at 1
anyway. The lwp field is set to != 0, in case the core wants to
refer to the whole kvm inferior with ptid(1,0,0).

If kvm is made to export running processes as gdb threads,
the following form can be used:
ptid (1, 1, 0) -> kvm inferior 1, in kernel
ptid (1, 1, 1) -> kvm inferior 1, process 1
ptid (1, 1, 2) -> kvm inferior 1, process 2
ptid (1, 1, n) -> kvm inferior 1, process n */

bsd_kvm_ptid = ptid_t (1, 1, 0);
}
BEGIN{
FS="\";  
print " /\"===> Do not modify this file!! \" \
"*- buffer-read-only: t -*- vi" \ 
":set ro:;  
print " It is created automatically by copying.awk.";  
print " Modify copying.awk instead. <=== */";  
print ""  
print "#include \"defs.h\""  
print "#include \"command.h\""  
print "#include \"gdbcmd.h\""  
print ""  
print "static void show_copying_command (const char *, int);"  
print ""  
print "static void show_warranty_command (const char *, int);"  
print ""  
print "static void";  
print "show_copying_command (const char *ignore, int from_tty);";  
print "{";  
}
NR == 1;/^[ ]*15\. Disclaimer of Warranty\[ ]*$/
if ($0 ~ //)
{
  printf " printf_filtered ("\n);\n";
}
else if ($0 !~ /^[ ]*15\. Disclaimer of Warranty\[ ]*$/)
{
  printf " printf_filtered (\"";
  for (i = 1; i < NF; i++)
printf "%s\n\", s;  
  printf "%s\n\")\n", $NF;
}
}  
/^[ ]*15\. Disclaimer of Warranty\[ ]*$/
print "}";  
print "";  
print "static void";  
print "show_warranty_command (const char *ignore, int from_tty);";  
print "{";  
}
Disclaimer of Warranty

END

END

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```python
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```
result = []
for gdb_dir in ('gdb', 'sim', 'include/gdb'):
    for root, dirs, files in os.walk(gdb_dir, topdown=True):
        for dirname in dirs:
            reldirname = "%s/%s" % (root, dirname)
            if (dirname in EXCLUDE_ALL_LIST
                or reldirname in EXCLUDE_LIST
                or reldirname in NOT_FSF_LIST
                or reldirname in BY_HAND):
                # Prune this directory from our search list.
                dirs.remove(dirname)
            for filename in files:
                relpath = "%s/%s" % (root, filename)
                if (filename in EXCLUDE_ALL_LIST
                    or relpath in EXCLUDE_LIST
                    or relpath in NOT_FSF_LIST
                    or relpath in BY_HAND):
                    # Ignore this file.
                    pass
                else:
                    result.append(relpath)
return result

def update_files(update_list):
    """Update the copyright header of the files in the given list.
    """
    We use gnulib's update-copyright script for that.
    """
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'
    # Perform the update, and save the output in a string.
    update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
    update_cmd += update_list
    p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                         stderr=subprocess.PIPE)
    update_out = p.communicate()[0]
    # Process the output. Typically, a lot of files do not have
    # a copyright notice :-(. The update-copyright script prints
    # a well defined warning when it did not find the copyright notice.
    # For each of those, do a sanity check and see if they may in fact
# have one. For the files that are found not to have one, we filter
# the line out from the output, since there is nothing more to do.
# short of looking at each file and seeing which notice is appropriate.
# Too much work! (~4,000 files listed as of 2012-01-03).
update_out = update_out.splitlines()
warning_string = ': warning: copyright statement not found'
warning_len = len(warning_string)

for line in update_out:
    if line.endswith('\n'):
        line = line[:-1]
    if line.endswith(warning_string):
        filename = line[:-warning_len]
        if may_have_copyright_notice(filename):
            print line
        else:
            # Unrecognized file format. !?!
            print "*** " + line

def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.

    The filename is relative to the root directory.
    This function assumes that the current working directory is that root
directory.

    The algorithm is fairly crude, meaning that it might return
    some false positives. I do not think it will return any false
    negatives... We might improve this function to handle more
    complex cases later...
    ""
    # For now, it may have a copyright notice if we find the word
    # "Copyright" at the (reasonable) start of the given file, say
    # 50 lines...
    MAX_LINES = 50

    fd = open(filename)

    lineno = 1
    for line in fd:
        if 'Copyright' in line:
            return True
        lineno += 1
        if lineno > 50:
            return False
    return False
def main():
    """The main subprogram."""
    if not os.path.isfile("gnulib/import/extra/update-copyright"):
        print "Error: This script must be called from the gdb directory."
    root_dir = os.path.dirname(os.getcwd())
    os.chdir(root_dir)

    update_list = get_update_list()
    update_files(update_list)

    # Remind the user that some files need to be updated by HAND...

    if MULTIPLE_COPYRIGHT_HEADERS:
        print
        print("033[31m"
              "REMINDER: Multiple copyright headers must be updated by hand:" 
              "033[0m")
        for filename in MULTIPLE_COPYRIGHT_HEADERS:
            print " ", filename

    if BY_HAND:
        print
        print "033[31mREMINDER: The following files must be updated by hand." "033[0m"
        for filename in BY_HAND:
            print " ", filename

########################################################################
# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = (  'gdb/nat/glibc_thread_db.h',  'gdb/CONTRIBUTE',  'gdb/gnulib/import' )

########################################################################
# generated, non-FSF, or otherwise special (e.g. license text,  
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere. Use with caution.  
# This is mostly for files that can be found in multiple directories.  
# Eg: We want all files named COPYING to be left untouched.

EXCLUDE_ALL_LIST = (  
    "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",  
    "fdl.texi", "gpl.texi", "alocal.m4",  
)

# The list of files to update by hand.
BY_HAND = (  
    # Nothing at the moment :-).  
)

# Files containing multiple copyright headers.  This script is only  
# fixing the first one it finds, so we need to finish the update  
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (  
    "gdb/doc/gdb.texinfo",  
    "gdb/doc/refcard.tex",  
    "gdb/gdbarch.sh",  
)

# The list of file which have a copyright, but not head by the FSF.  
# Filenames are relative to the root directory.
NOT_FSF_LIST = (  
    "gdb/exc_request.defs",  
    "gdb/gdbtk",  
    "gdb/testsuite/gdb.gdbtk/",  
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",  
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",  
    "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",  
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",  
    "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",  
    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",  
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",  
    "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",  
    "sim/arm/arminit.c",  
    "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",  
    "sim/common/cgen-accfp.c",  
    "sim/mips/m16run.c", "sim/mips/sim-main.c",  
    "sim/moxie/moxie-gdb.dts",  
    # Not a single file in sim/ppc/ appears to be copyright FSF :-(.  
    "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/id-insn.h",  
    "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/decode_branch.h", 
)
if __name__ == '__main__':
    main()

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//
// 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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Gocheck - A rich testing framework for Go

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

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limitations under the License.

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

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1.949 safestring 4.1.9

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* strremovews_s.c
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# comp-mdata.pl -- HFR Component Meta-Data File
#
# Up-to-date information about the format of data in this file may
# be found at:
#
#
# For questions/comments, please send e-mail to edde@cisco.com.
#
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#
# Component identification
$Comp_Name = 'infra/safeC';
$Comp_Code = 'infra-safec';
$Description = 'safeC library';
$Identifier = '0x15A1';

# Exports declaration
@Exports = ( 
    
    { 
        name=> 'libsafeC.dll',
        cards=> ['all'],
        target_dir=> 'lib',
        implement_apis=> [ 'safec___mem_primitives_lib___api',
                          'safec___safe_lib_errno___api',
                          'safec___safe_lib___api', 'safec___safe_limits___api',
                          'safec___safe_mem_constraint___api',
                          'safec___safe_mem_lib___api',
                          'safec___safe_str_constraint___api',
                          'safec___safe_string___api', 'safec___safe_str_lib___api',
                          'safec___safe_types___api' ],
        workspace_type => "xr",
    },
    
    { 
        name=> 'libsafeC.so',
        target_dir=> '/opt/cisco/calvados/usr/lib64',
        workspace_type => "calvados",
    }
);
# Tools version declaration

$MetaDataToolsVersion = '5.0'; # Change to a higher version as needed to use new attributes.

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* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/comp-mdata.pl

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/*
 * safec_str_lib.h -- Safe C Library String APIs
 * 
 * October 2008, Bo Berry
 * 
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* safec_mem_lib.h -- Safe C Library Memory APIs
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/*
* mem_primitives_lib.c - Unguarded Memory Copy Routines
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*
Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/mem_primitives_lib.c
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* strncpy_s.c
* 
* October 2008, Bo Berry
* 
* Copyright (c) 2008-2018, 2022 by Cisco Systems, Inc.
* All rights Reserved.
* 
* NOTE: This function should ONLY be used when the intention is to
*       TRUNCATE the data in source into destination. If truncation
*       is not desired strcpy_s should be used.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strncpy_s.c
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* strljustify_s.c
* 
* November 2008, Bo Berry
* 
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*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strljustify_s.c
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* safe_mem_lib.h -- Safe C Library Memory APIs
* 
* October 2008, Bo Berry
* 
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*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/include/safe_mem_lib.h

No license file was found, but licenses were detected in source scan.

#........................................................................
# infra/safeC/Jamfile
#
# May-2013, Subramanian Karunanithi
#
# Copyright (c) 2013 by cisco Systems, Inc.
# All rights reserved.
#........................................................................
SubDir TOP infra safeC ;

IosComponentSrc infra safeC ;
SubInclude TOP infra safeC test ;

#........................................................................
# End of infra/safeC/Jamfile
#........................................................................

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/Jamfile

No license file was found, but licenses were detected in source scan.

/*........................................................................
* strprefix_s.c
* *
* November 2008, Bo Berry
* Copyright (c) 2008-2015, 2018 by Cisco Systems, Inc.
* All rights reserved
* -------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strprefix_s.c
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* strcat_s.c
*
* October 2008, Bo Berry
*
* Copyright (c) 2008-2016, 2018 by Cisco Systems, Inc.
* All rights Reserved.
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strcat_s.c
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* strncat_s.c
*
* October 2008, Bo Berry
*
* Copyright (c) 2008-2018, 2022 by Cisco Systems, Inc.
* All Rights reserved
*
* NOTE: This function should ONLY be used when the intention is to
*       TRUNCATE the data in source into destination. If truncation
*       is not desired strcat_s should be used.
*-------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strncat_s.c
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* strispassword_s.c
*
* October 2008, Bo Berry
*
* Copyright (c) 2008-2015, 2018 by Cisco Systems, Inc.
* All rights Reserved.
*/
*------------------------------------------------------------------
* Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strispassword_s.c
* No license file was found, but licenses were detected in source scan.
#
# Jamfile - specify NG rules to build this component.
# May 2013, Subramanian Karunanithi
# Copyright (c) 2013, 2016, 2018, 2020 by cisco Systems, Inc.
# All rights reserved.
#
SearchSource $(TOP)/infra/safeC/src/safe_string ;

# Disable BOSC (Built-in Object Size Checking)
local BOSC_HEADERS = ;

IosDLLlibsafec
  : abort_handler_s.c
dcdi_handler_s.c
ignore_handler_s.c
mem_primitives_lib.c
memcmp16_s.c
memcmp32_s.c
memcmp_s.c
memcpy16_s.c
memcpy32_s.c
memcpy_s.c
memmove16_s.c
memmove32_s.c
memmove_s.c
memset16_s.c
memset32_s.c
memset_s.c
safe_logger.c
safe_mem_constraint.c
safe_package_info.c
safe_str_constraint.c
set_constraint_handler_s.c
smemzero16_s.c
smemzero32_s.c
smemzero_s.c
strcasecmp_s.c
strcasestr_s.c
strcat_s.c
strcmp_s.c
strcmpfld_s.c
strcpy_s.c
strcpyfld_s.c
strcpyfldin_s.c
strcpyfldout_s.c
strcsn_s.c
strfirstchar_s.c
strfirstdiff_s.c
strfirstsame_s.c
strisalphanumeric_s.c
strisascii_s.c
strisdigit_s.c
strishex_s.c
strislowercase_s.c
strismixedcase_s.c
strispassword_s.c
strisuppercase_s.c
strlastchar_s.c
strlastdiff_s.c
strlastsame_s.c
strlastjustify_s.c
strncasecmp_s.c
strncat_s.c
strncpy_s.c
strncpy_s.c
strnlen_s.c
strpbrk_s.c
strprefix_s.c
strremovews_s.c
strspn_s.c
strstr_s.c
strtok_s.c
strtolowercase_s.c
strtouppercase_s.c
strzero_s.c

: NO_EXTRA_LIBS

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/Jamfile
No license file was found, but licenses were detected in source scan.

/*---------------------------------------------------------------
 * safe_types.h -- types include for portability
 *
 * March 2007, Bo Berry
 *
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 *---------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/include/safe_types.h

No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/module.mk
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/BUILD
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/header-exports.yaml
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/src.mk
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/Makefile.binos
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/makefile
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/Makefile.calvados

No license file was found, but licenses were detected in source scan.

/*---------------------------------------------------------------
 * strlastchar_s.c
 */
* November 2008, Bo Berry
*
* Copyright (c) 2008-2015, 2018 by Cisco Systems, Inc.
* All rights reserved
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strlastchar_s.c
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* strncasecmp_s.c
*
* November 2016, Thomas Greenslade
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/include/safe_lib.h
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* safe_lib.h -- library include for portability
*
* February 2009, Bo Berry
*
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*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/include/safe_lib.h
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* strncasecmp_s.c
*
* November 2016, Thomas Greenslade
*/
This file is used for generation of unit test module by SESUT. See http://wwwin-ses.cisco.com/unittest/sesut_ios.html for information about SESUT.

Testing the safe C string APIs

% Cflow
! Enter the files/subsystems in the unit under test. These files will be instrumented for Cflow and MIF (if MIF is available in your view). GDB flag -g is used during compilation.
cflow_list=$(sub_mif) xyz.o $(my_subsys) abc.o
cflow_list=strcpy.o

% MIF
! Enter MIF configuration
! If MIF configuration is not specified and cflow_list is specified then a default MIF configuration is used.
!

%! DTD headers
! DTD is not available with SESUT yet.
#include "master.h"
#include &lt;types.h&gt;
#include "./testtools/testtools.h"
#include "./testtools/testtools_private.h"

%! DTD functions
! DTD is not available with SESUT yet.
! List functions to be tested for robustness
!
imf_enable
imf_disable
imf_clear
imf_lock

%! env
! Use this section to list object modules and libraries that are not part of the standard build but are used by the tests defined in this file. The text following "link:" is inserted into the final link step.
!link: xyz.o abc.o libmyunittest.a -llibmytest -ltestlib
!
! Use this section to add any special 'CFLAGS' needed to compile sesut generated test file
!cflags: -I./http/http_core/include
!cflags: -I./http/http_core/server
!cflags: -DEW_CONFIG_OPTION_CLIENT_CACHE
You can specify functions to be executed before and after the test. 
pretest is executed before executing the unit test and the posttest is
executed after executing the unit test. These are executed once regardless
of the repeat count. The prototypes of these functions are expected to be:
void <pretest>(void);
void <posttest>(void);
Define these functions in the 'model prolog' section. Note that these
are optional. You can have one or both or none.
pretest:config_my_feature
posttest:validate_results
If want want your pretest/posttest functions to receive same
parameters as the test then specify the functions as:
pretest_withparams:config_my_feature
posttest_withparams:validate_results
The prototypes for these functions would be:
void <pretest_withparams>(<types of parameters>)
void <posttest_withparams>(<types of parameters>)
Parameters are specified using "parameter:" keyword in % model" section.
If both {pre|post}test and {pre|post}test_withparams are specified:
pretest is executed before pretest_withparams.
posttest is executed after posttest_withparams.

You can specify a initializer/finalizer function to be executed
before/after the test
These functions are executed before/after 'pretest'/'posttest' function.
initializer function can contain code to initialize global variables used
in your test
finalizer function can contain code for clean up and freeing memory used
by test
Both initializer and finalizer options are useful if you use SESUT loader
to do unit testing and required if your test allocates heap memory.
The prototypes of these functions are expected to be:
void <initializer>(void);
void <finalizer> (void);
Define these functions in the 'model prolog' section. Note that these
are optional. You can have one or both or none.
initializer:my_init
finalizer:my_finit

% model prolog
This code will be copied unchanged to the start of the generated .c file
Include definitions, declarations, include statements that
are used in the model
You can include stubs for the functions that are not ready yet but are
invoked.
! If you choose to have pretest and posttest functions include them here.
!
! "model prolog " accepts additional keywords.
! dt - This is meaningful in automation environments. If the test you are
! creating alters global state then use "dt" keyword. This informs
! automation framework that device should be reloaded prior to
! running next test.
! iou - Use this keyword if the test can be executed under IOU.
! preinit - Use this if the test executes prior to system initialization.
! % model prolog dt

#include "master.h"
#include COMP_INC(posix, sys/types.h)
#include <kernel/kas/include/danger_map_os.h>
#include <posix/include/string.h>
#include <safeC/include/safe_mem_lib.h>
#include <safeC/include/safe_str_lib.h>

#define debug_printf printf
#define MaxTestCases 61

/* global var declaration */
typedef void (*TestFuncs) (void);
static TestFuncs testFuncs[MaxTestCases];

static void test_memcmp_s (void)
{
    errno_t rc;

    int LEN=128;
    int  ind;
    int32_t std_ind;
    uint32_t len;

    uint8_t  mem1[LEN];
    uint8_t  mem2[LEN];

    /*------------------------------------------*/
    printf("memcmp_s TESTING\n");

    rc = memcmp_s(NULL, LEN, mem2, LEN, &ind);
    if (rc != ESNULLP) {
        debug_printf("%s %u  Ind=%d  Error rc=%u \n",
                        __FUNCTION__, __LINE__, ind, rc);
    }

    /*------------------------------------------*/
rc = memcmp_s(mem1, LEN, NULL, LEN, &ind);
if (rc != ESNULLP) {
    debug_printf("%s %u Ind=%d Error rc=%u \n",
                __FUNCTION__, __LINE__, ind, rc);
}
/*---------------------------------------------*/
rc = memcmp_s(mem1, LEN, mem2, LEN, NULL);
if (rc != ESNULLP) {
    debug_printf("%s %u Ind=%d Error rc=%u \n",
                __FUNCTION__, __LINE__, ind, rc);
}
/*---------------------------------------------*/
rc = memcmp_s(mem1, 0, mem2, LEN, &ind);
if (rc != ESZEROL) {
    debug_printf("%s %u Ind=%d Error rc=%u \n",
                __FUNCTION__, __LINE__, ind, rc);
}
/*---------------------------------------------*/
rc = memcmp_s(mem1, LEN, mem2, 0, &ind);
if (rc != ESZEROL) {
    debug_printf("%s %u Ind=%d Error rc=%u \n",
                __FUNCTION__, __LINE__, ind, rc);
}
/*---------------------------------------------*/
rc = memcmp_s(mem1, LEN, mem2, RSIZE_MAX_MEM+1, &ind);
if (rc != ESLEMAX) {
    debug_printf("%s %u Ind=%d Error rc=%u \n",
                __FUNCTION__, __LINE__, ind, rc);
}
/*---------------------------------------------*/
rc = memcmp_s(mem1, RSIZE_MAX_MEM+1, mem2, LEN, &ind);
if (rc != ESLEMAX) {
    debug_printf("%s %u Ind=%d Error rc=%u \n",
                __FUNCTION__, __LINE__, ind, rc);
}
/*---------------------------------------------*/
len = 1;

memset(mem1, 55, len);
memset(mem2, 55, len);

rc = memcmp_s(mem1, len, mem2, len, &ind);
if (rc != EOK) {
    debug_printf("%s %u Ind=%d Error rc=%u \n",
        __FUNCTION__, __LINE__, ind, rc);
}

if (ind != 0) {
    debug_printf("%s %u Ind=%d rc=%u \n",
        __FUNCTION__, __LINE__, ind, rc);
}

std_ind = memcmp(mem1, mem2, len);
if (ind != std_ind) {
    debug_printf("%s %u Ind=%d rc=%u \n",
        __FUNCTION__, __LINE__, ind, rc);
}

/*--------------------------------------------------*/

len = 2;

memset(mem1, 55, LEN);
memset(mem2, 55, LEN);

rc = memcmp_s(&mem1[1], len, &mem2[1], len, &ind);
if (rc != EOK) {
    debug_printf("%s %u Ind=%d Error rc=%u \n",
        __FUNCTION__, __LINE__, ind, rc);
}

if (ind != 0) {
    debug_printf("%s %u Ind=%d rc=%u \n",
        __FUNCTION__, __LINE__, ind, rc);
}

std_ind = memcmp(mem1, mem2, len);
if (ind != std_ind) {
    debug_printf("%s %u Ind=%d rc=%u \n",
        __FUNCTION__, __LINE__, ind, rc);
}

/*--------------------------------------------------*/
len = 32;

memset(mem1, 55, len);
memset(mem2, 55, len);

rc = memcmp_s(mem1, len, mem2, len, &ind);
if (rc != EOK) {
    debug_printf("%s %u Ind=%d Error rc=%u \n",
                  __FUNCTION__, __LINE__, ind, rc);
}

if (ind != 0) {
    debug_printf("%s %u Ind=%d rc=%u \n",
                  __FUNCTION__, __LINE__, ind, rc);
}

std_ind = memcmp(mem1, mem2, len);
if (ind != std_ind) {
    debug_printf("%s %u Ind=%d rc=%u \n",
                  __FUNCTION__, __LINE__, ind, rc);
}

/*--------------------------------------------------*/

len = 32;

memset(mem1, 55, len);
memset(mem2, 55, len);
memset( &mem2[(len/2)], 35, len);
rc = memcmp_s(mem1, len, mem2, len, &ind);
if (rc != EOK) {
    debug_printf("%s %u Ind=%d Error rc=%u \n",
                  __FUNCTION__, __LINE__, ind, rc);
}

if (ind < 1) {
    debug_printf("%s %u Ind=%d rc=%u \n",
                  __FUNCTION__, __LINE__, ind, rc);
}

/*--------------------------------------------------*/

len = 32;

memset(mem1, 55, len);
memset(mem2, 55, len);
memset( &mem2[(len/2)], 65, len);

rc = memcmp_s(mem1, len, mem2, len, &ind);
if (rc != EOK) {
    debug_printf("%s %u Ind=%d Error rc=%u \n",
        __FUNCTION__, __LINE__, ind, rc);
}

if (ind > -1) {
    debug_printf("%s %u Ind=%d rc=%u \n",
        __FUNCTION__, __LINE__, ind, rc);
}

/*--------------------------------------------------*/

len = 3;

memset(mem1, 55, len);
memset(mem2, 55, len);
rc = memcmp_s(mem1, len, mem2, len, &ind);
if (rc != EOK) {
    debug_printf("%s %u Ind=%d Error rc=%u \n",
        __FUNCTION__, __LINE__, ind, rc);
}

if (ind != 0) {
    debug_printf("%s %u Ind=%d rc=%u \n",
        __FUNCTION__, __LINE__, ind, rc);
}

/*--------------------------------------------------*/

printf("\n\nDone \n");
}

static void test_memcpy_s(void)
{
    errno_t rc;

    int LEN=1024;
    uint32_t i;
    rsize_t len;

    uint8_t mem1[LEN+2];
    uint8_t mem2[LEN+2];

    /*------------------------------------------*/
printf("\nmemcpy_s TESTING\n");

rc = memcpy_s(NULL, LEN, mem2, LEN);
if (rc != ESNULLP) {
    debug_printf("%s %u Error rc=%u \n",
                  __FUNCTION__, __LINE__, rc);
}

/*------------------------------------------------__*/
rc = memcpy_s(mem1, 0, mem2, LEN);
if (rc != ESZEROL) {
    debug_printf("%s %u Error rc=%u \n",
                  __FUNCTION__, __LINE__, rc);
}

/*------------------------------------------------__*/
rc = memcpy_s(mem1, RSIZE_MAX_MEM+1, mem2, LEN);
if (rc != ESLEMAX) {
    debug_printf("%s %u Error rc=%u \n",
                  __FUNCTION__, __LINE__, rc);
}

/*------------------------------------------------__*/
rc = memcpy_s(mem1, LEN, NULL, LEN);
if (rc != ESNULLP) {
    debug_printf("%s %u Error rc=%u \n",
                  __FUNCTION__, __LINE__, rc);
}

/*------------------------------------------------administrator://
rc = memcpy_s(mem1, 10, mem2, 0);
if (rc != ESZEROL) {
    debug_printf("%s %u Error rc=%u \n",
                  __FUNCTION__, __LINE__, rc);
}

/*------------------------------------------------administrator://
rc = memcpy_s(mem1, LEN, mem2, RSIZE_MAX_MEM+1);
if (rc != ESLEMAX) {
    debug_printf("%s %u Error rc=%u \n",
                  __FUNCTION__, __LINE__, rc);
}
for (i=0; i<LEN+1; i++) { mem1[i] = 33; }
for (i=0; i<LEN; i++) { mem2[i] = 44; }

len = LEN;
rc = memcpy_s(mem1, len, mem2, len);
if (rc != EOK) {
  debug_printf("%s %u   Error rc=%u \n", 
                  __FUNCTION__, __LINE__, rc);
} else {
  for (i=0; i<len; i++) {
    if (mem1[i] != mem2[i]) {
      printf("%d - %d m1=%d  m2=%d  \n", 
              __LINE__, i, mem1[i], mem2[i]);
    }
  }
  if (mem1[i] != 33) {
    printf("%d - %d m1=%d  m2=%d  \n", 
              __LINE__, len, mem1[len], mem2[len]);
  }
}

for (i=0; i<LEN+1; i++) { mem1[i] = 33; }
for (i=0; i<LEN; i++) { mem2[i] = 44; }

len = LEN;
rc = memcpy_s(mem1, len, mem2, (len+1) );
if (rc == EOK) {
  debug_printf("%s %u   Error rc=%u \n", 
                  __FUNCTION__, __LINE__, rc);
} else {
  for (i=0; i<len; i++) {
    if (mem1[i] != 0) {
      printf("%d - %d m1=%d  m2=%d  \n", 
              __LINE__, i, mem1[i], mem2[i]);
    }
  }
  if (mem1[i] != 33) {
    printf("%d - %d m1=%d  m2=%d  \n", 
              __LINE__, len, mem1[len], mem2[len]);
  }
}
printf("%d - %d m1=%d  m2=%d \n",
    __LINE__, len, mem1[len], mem2[len]);
}

/*--------------------------------------------------*/
for (i=0; i<LEN+2; i++) { mem1[i] = 33; }
for (i=0; i<LEN; i++) { mem2[i] = 44; }

len = LEN/2;
rc = memcpys_s(mem1, len, mem2, LEN);
if (rc != ESLEMAX) {
    debug_printf("%s %u Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
} else {
for (i=0; i<len; i++) {
    if (mem1[i] != 0) {
        printf("%d - %d m1=%d  m2=%d \n",
            __LINE__, i, mem1[i], mem2[i]);
    }
}

if (mem1[len] != 33) {
    printf("%d - %d m1=%d  m2=%d \n",
        __LINE__, len, mem1[len], mem2[len]);
}
}
/*--------------------------------------------------*/
for (i=0; i<LEN+2; i++) { mem1[i] = 33; }
for (i=0; i<LEN; i++) { mem2[i] = 44; }

len = LEN;
rc = memcpys_s(mem1, len, mem2, 0);
if (rc != ESZEROL) {
    debug_printf("%s %u Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
} else {
/* verify mem1 was zeroed */
for (i=0; i<len; i++) {
    if (mem1[i] != 0) {
printf("%d - %d m1=%d  m2=%d  
", __LINE__, i, mem1[i], mem2[i]);
} 
}

if (mem1[len] != 33) {
    printf("%d - %d m1=%d  m2=%d  
", __LINE__, len, mem1[len], mem2[len]);
}

/*--------------------------------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 33; }
for (i=0; i<LEN; i++) { mem2[i] = 44; }

len = LEN;
rc = memcpy_s(mem1, len, mem2, RSIZE_MAX_MEM+1);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u 
", __FUNCTION__, __LINE__, rc);
} else {
 /* verify mem1 was zeroed */
    for (i=0; i<len; i++) {
        if (mem1[i] != 0) {
            printf("%d - %d m1=%d  m2=%d  
", __LINE__, i, mem1[i], mem2[i]);
        }
    }
    if (mem1[len] == 0) {
        printf("%d - %d m1=%d  m2=%d  
", __LINE__, len, mem1[len], mem2[len]);
    }
}
/*--------------------------------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 55; }

/* same ptr - no move */
rc = memcpy_s(mem1, LEN, mem1, LEN);
if (rc != EOK) {
    debug_printf("%s %u  Error rc=%u 
", __FUNCTION__, __LINE__, rc);
}
# Open Source Used In IOS XR Software 7.5.2

```c
for (i=0; i<LEN; i++) { mem1[i] = 55; }
for (i=0; i<LEN; i++) { mem2[i] = 65; }

/* overlap */
len = 100;
rc = memcpy_s(&mem1[0], len, &mem1[10], len);
if (rc != ESOVRLP) {
    debug_printf("%s %u  Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
} else {
    for (i=0; i<len; i++) {
        if (mem1[i] != 0) {
            printf("%d - %d m1=%d  m2=%d  \n",
                __LINE__, i, mem1[i], mem2[i]);
        }
    }
    if (mem1[len] == 0) {
        printf("%d - %d m1=%d  m2=%d  \n",
                __LINE__, i, mem1[i], mem2[i]);
    }
}

/* overlap */
len = 100;
rc = memcpy_s(&mem1[10], len, &mem1[0], len);
if (rc != ESOVRLP) {
    debug_printf("%s %u  Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
} else {
    for (i=10; i<len+10; i++) {
        if (mem1[i] != 0) {
            printf("%d - %d m1=%d  m2=%d  \n",
                __LINE__, i, mem1[i], mem2[i]);
        }
    }
}
```
for (i=0; i<LEN; i++) { mem1[i] = 35; }
for (i=0; i<LEN; i++) { mem2[i] = 55; }

len = 5;
rc = memcpy_s(mem1, len, mem2, len);
if (rc != EOK) {
    debug_printf("%s %u  Error rc=%u \n", __FUNCTION__, __LINE__, rc);
} else {

for (i=0; i<len; i++) {
    if (mem1[i] != 55) {
        printf("%d - %d m1=%d  m2=%d  \n", __LINE__, i, mem1[i], mem2[i]);
    }
}

rc = memcpy_s(mem1, LEN, mem2, LEN/2);
if (rc != EOK) {
    debug_printf("%s %u  Error rc=%u \n", __FUNCTION__, __LINE__, rc);
} else {

for (i=0; i<LEN/2; i++) {
    if (mem1[i] != 55) {
        printf("%d - %d m1=%d  m2=%d  \n", __LINE__, i, mem1[i], mem2[i]);
    }
}

printf("\n\nDone \n");
return;

static void test_memmove_s(void) {
    errno_t rc;

    int LEN=1024;
    uint32_t i;
    uint32_t len;

    uint8_t  mem1[LEN];
    uint8_t  mem2[LEN];

    /*-----------------------------*/
    printf("memmove_s TESTING\n");

    rc = memmove_s(NULL, LEN, mem2, LEN);
    if (rc != ESNULLP) {
        debug_printf("%s %u   Error rc=%u \n",
                      __FUNCTION__, __LINE__, rc);
    }

    /*-----------------------------*/
    rc = memmove_s(mem1, 0, mem2, LEN);
    if (rc != ESZEROL) {
        debug_printf("%s %u   Error rc=%u \n",
                      __FUNCTION__, __LINE__, rc);
    }

    /*-----------------------------*/
    rc = memmove_s(mem1, RSIZE_MAX_MEM+1, mem2, LEN);
    if (rc != ESLEMAX) {
        debug_printf("%s %u   Error rc=%u \n",
                      __FUNCTION__, __LINE__, rc);
    }

    /*-----------------------------*/
    rc = memmove_s(mem1, LEN, NULL, LEN);
    if (rc != ESNULLP) {
        debug_printf("%s %u   Error rc=%u \n",
                      __FUNCTION__, __LINE__, rc);
    }

    /*-----------------------------*/
}

Open Source Used In IOS XR Software 7.5.2 14114
rc = memmove_s(mem1, 10, mem2, 0);
if (rc != ESZEROL) {
    debug_printf("%s %u Error rc=%u \n",
                  __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
rc = memmove_s(mem1, LEN, mem2, RSIZE_MAX_MEM+1);
if (rc != ESLEMAX) {
    debug_printf("%s %u Error rc=%u \n",
                  __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 33; }
for (i=0; i<LEN; i++) { mem2[i] = 44; }

/* a valid move */
len = LEN;
rc = memmove_s(mem1, len, mem2, LEN);
if (rc != EOK) {
    debug_printf("%s %u Error rc=%u \n",
                  __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (mem1[i] != mem2[i]) {
        printf("%d m1=%d  m2=%d \n",
                i, mem1[i], mem2[i]);
    }
}

/*--------------------------------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 33; }
for (i=0; i<LEN; i++) { mem2[i] = 44; }

/* length error */
len = LEN/2;
rc = memmove_s(mem1, len, mem2, LEN);
if (rc != ESLEMAX) {
    debug_printf("%s %u Error rc=%u \n",
                  __FUNCTION__, __LINE__, rc);
}

/* verify mem1 was zeroed */

Open Source Used In IOS XR Software 7.5.2  14115
for (i=0; i<len; i++) {
    if (mem1[i] != 0) {
        printf("%d - %d m1=%d \n", __LINE__, i, mem1[i]);
    }
}

/*--------------------------------------------------*/

for (i=0; i<LEN; i++) { mem1[i] = 33; }
for (i=0; i<LEN; i++) { mem2[i] = 44; }

/* invalid length - zero dest */
len = LEN;
rc = memmove_s(mem1, len, mem2, 0);
if (rc != ESZEROL) {
    debug_printf("%s %u \ Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

/* verify mem1 was zeroed */
for (i=0; i<len; i++) {
    if (mem1[i] != 0) {
        printf("%d - %d m1=%d \n", __LINE__, i, mem1[i]);
    }
}

/*--------------------------------------------------*/

for (i=0; i<LEN; i++) { mem1[i] = 33; }
for (i=0; i<LEN; i++) { mem2[i] = 44; }

/* invalid length - zero dest */
len = LEN;
rc = memmove_s(mem1, len, mem2, RSIZE_MAX_MEM+1);
if (rc != ESLEMAX) {
    debug_printf("%s %u \ Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

/* verify mem1 was zeroed */
for (i=0; i<len; i++) {
    if (mem1[i] != 0) {
        printf("%d - %d m1=%d \n", __LINE__, i, mem1[i]);
    }
}
for (i=0; i<LEN; i++) { mem1[i] = 33; }
for (i=0; i<LEN; i++) { mem2[i] = 44; }

/* same ptr - no move */
rc = memmove_s(mem1, LEN, mem1, LEN);
if (rc != EOK) {
    debug_printf("%s %u Error rc=%u \n",
                     __FUNCTION__, __LINE__, rc);
}

/* overlap move */
len = 20;
rc = memmove_s(&mem1[0], len, &mem1[10], len);
if (rc != EOK) {
    debug_printf("%s %u Error rc=%u \n",
                     __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (mem1[i] != 35) {
        printf("%d - %d m1=%d \n", __LINE__, i, mem1[i]);
    }
}

for (i=0; i<LEN; i++) { mem1[i] = 25; }
for (i=10; i<LEN-10; i++) { mem1[i] = 35; }

/* overlap move */
len = 20;
rc = memmove_s(&mem1[10], len, &mem1[0], len);
if (rc != EOK) {
    debug_printf("%s %u Error rc=%u \n",
                     __FUNCTION__, __LINE__, rc);
}
for (i=0; i<LEN; i++) { mem2[i] = 25; }
for (i=10; i<LEN-10; i++) { mem2[i] = 35; }

for (i=0; i<10; i++) {
    if (mem1[i] != 25) {
        printf("%d - %d m1=%d \n",
               __LINE__, i, mem1[i]);
    }
}

/*--------------------------------------------------*/
/*--------------------------------------------------*/
printf("\n\nDone \n");
}

static void test_memzero_s(void)
{
    errno_t rc;

    int LEN = 512;

    uint32_t i;
    uint32_t len;
    uint8_t mem1[LEN];

    /*-----------------------------------------------*/
    printf("\nmemzero_s TESTING\n");

    rc = memzero_s(NULL, LEN);
    if (rc != ESNULLP) {
        debug_printf("%s %u   Error rc=%u \n",
                     __FUNCTION__, __LINE__, rc);
    }

    /*-----------------------------------------------*/
    printf("\nmemzero_s TESTING\n");

    rc = memzero_s(mem1, 0);
    if (rc != ESZEROL) {
        debug_printf("%s %u   Error rc=%u \n",
                     __FUNCTION__, __LINE__, rc);
    }

    /*-----------------------------------------------*/
    printf("\nmemzero_s TESTING\n");

    rc = memzero_s(mem1, RSIZE_MAX_MEM+1);
    if (rc != ESLEMAX) {
        debug_printf("%s %u   Error rc=%u \n",
                     __FUNCTION__, __LINE__, rc);
    }

    /*-----------------------------------------------*/
}
for (i=0; i<LEN; i++) { mem1[i] = 33; }

len = 1;
rc = memzero_s(mem1, len);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

/* verify mem1 was zeroed */
for (i=0; i<len; i++) {
    if (mem1[i] != 0) {
        printf("%d - %d m1=%d \n",
                __LINE__, i, mem1[i]);
    }
}

for (i=0; i<LEN; i++) { mem1[i] = 33; }

len = 2;
rc = memzero_s(mem1, len);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

/* verify mem1 was zeroed */
for (i=0; i<len; i++) {
    if (mem1[i] != 0) {
        printf("%d - %d m1=%d \n",
                __LINE__, i, mem1[i]);
    }
}

for (i=0; i<LEN; i++) { mem1[i] = 33; }

len = 3;
rc = memzero_s(mem1, len);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
#define _func_ __FUNCTION__, __LINE__, rc);

/* verify mem1 was zeroed */
for (i=0; i<len; i++) {
    if (mem1[i] != 0) {
        printf("%d - %d m1=%d 
", __LINE__, i, mem1[i]);
    }
}

/*--------------------------------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 33; }

len = LEN;
rc = memzero_s(mem1, len);
if (rc != EOK) {
    debug_printf("%s %u Error rc=%u 
", __FUNCTION__, __LINE__, rc);
}

/* verify mem1 was zeroed */
for (i=0; i<len; i++) {
    if (mem1[i] != 0) {
        printf("%d - %d m1=%d 
", __LINE__, i, mem1[i]);
    }
}

/*--------------------------------------------------*/
/*--------------------------------------------------*/
printf("Done 
");

static void test_strcasecmp_s(void)
{
    int LEN=128;
    errno_t rc;

    int ind;
    int std_ind;

    char   str1[LEN];
    char   str2[LEN];
/*-------------------------------*/

printf("strncasecmp_s TESTING\n");

rc = strn cyclic_s(NULL, LEN, str2, &ind);
if (rc != ESNULLP) {
   printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

/*-------------------------------*/

rc = strn cyclic_s(str1, LEN, NULL, &ind);
if (rc != ESNULLP) {
   printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

/*-------------------------------*/

rc = strn cyclic_s(str1, LEN, str2, NULL);
if (rc != ESNULLP) {
   printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

/*-------------------------------*/

rc = strn cyclic_s(str1, 0, str2, &ind);
if (rc != ESZEROL) {
   printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

/*-------------------------------*/

rc = strn cyclic_s(str1, RSIZE_MAX_STR+1, str2, &ind);
if (rc != ESLEMAX) {
   printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

/*-------------------------------*/

str1[0] = '0';
str2[0] = '0';
rc = strcasecmp_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

if (ind != 0) {
    printf("%s %u  Error  ind=%d rc=%d \n", __FUNCTION__, __LINE__, ind, rc);
}
std_ind = strcasecmp(str1, str2);
if (ind != std_ind) {
    printf("%s %u  ind=%d  std_ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, std_ind, rc);
}
/*--------------------------------------------------*/
strcpy (str1, "KEEP IT SIMPLE");
strcpy (str2, "keep it simple");
/*-----------------------------*/
rc = strcasecmp_s(str1, 4, str2, &ind);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy (str1, "KEEP IT SIMPLE");
strcpy (str2, "keep it simple");
rc = strcasecmp_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
if (ind != 0) {
    printf("%s %u  Error ind=%d rc=%d \n", __FUNCTION__, __LINE__, ind, rc);
}
std_ind = strcasecmp(str1, str2);
if (ind != std_ind) {
    printf("%s %u  ind=%d  std_ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, std_ind, rc);
}
strcpy (str1, "keep it simple");
strcpy (str2, "keeP it simple");

rc = strcasecmp_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
if (ind != 0) {
    printf("%s %u  Error ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, rc);
}

std_ind = strcasecmp(str1, str2);
if (ind != std_ind) {
    printf("%s %u  ind=%d  std_ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, std_ind, rc);
}

strcpy (str1, "keep it simple");
rc = strcasecmp_s(str1, LEN, str1, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
if (ind != 0) {
    printf("%s %u  Error ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, rc);
}

/* be sure the results are the same as strcasecmp */
std_ind = strcasecmp(str1, str1);
if (ind != std_ind) {
/*--------------------------------------------*/
}

//  printf("%s %u  ind=%d  std_ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, std_ind, rc);

/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "keeP it simple");

rc = strcasecmp_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    /*--------------------------------------------*/
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
if (ind != 0) {
    /*--------------------------------------------*/
    printf("%s %u  Error ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, rc);
}

std_ind = strcasecmp(str1, str2);
if (ind != std_ind) {
    /*--------------------------------------------*/
    printf("%s %u  ind=%d  std_ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, std_ind, rc);
}

/*--------------------------------------------*/
strcpy (str1, "keep it simple");
rc = strcasecmp_s(str1, LEN, str1, &ind);
if (rc != EOK) {
    /*--------------------------------------------*/
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
if (ind != 0) {
    /*--------------------------------------------*/
    printf("%s %u  Error ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, rc);
}

/* be sure the results are the same as strcasecmp */
std_ind = strcasecmp(str1, str1);
if (ind != std_ind) {
/*--------------------------------------------*/
printf("%s %u  ind=%d  std_ind=%d  rc=%d \n",
    __FUNCTION__, __LINE__,  ind, std_ind, rc);
}

/*------------------------------------------------*/
strcpy (str1, "KEEP it simplified");
strcpy (str2, "keep it simple");

rc = strcasecmp_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
if (ind <= 0) {
    printf("%s %u  Error ind=%d  rc=%d \n",
        __FUNCTION__, __LINE__,  ind, rc);
}
/* be sure the results are the same as strcasecmp */
std_ind = strcasecmp(str1, str2);
if (std_ind <= 0) {
    printf("%s %u  ind=%d  std_ind=%d  rc=%d \n",
        __FUNCTION__, __LINE__,  ind, std_ind, rc);
}
/*------------------------------------------------*/
strcpy (str1, "KEEP 1234567890");
strcpy (str2, "keep it simple");

rc = strcasecmp_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
if (ind >= 0) {
    printf("%s %u  Error ind=%d  rc=%d \n",
        __FUNCTION__, __LINE__,  ind, rc);
}
/* be sure the results are the same as strcasecmp */
std_ind = strcasecmp(str1, str2);
if (std_ind != ind) {
    printf("%s %u  ind=%d  std_ind=%d  rc=%d \n",
        __FUNCTION__, __LINE__,  ind, std_ind, rc);
static void test_strcasestr_s(void) {
    int LEN=128;
    //int SHORT_LEN=5;

    // char temp_char;
    errno_t rc;

    char *sub;
    // char *std_sub;

    rsize_t len1;
    rsize_t len2;

    char   str1[LEN];
    char   str2[LEN];

    /*-----------------------------*/
    printf("strcasestr_s TESTING\n");
    rc = strcasestr_s(NULL, LEN, str2, LEN, &sub);
    if (rc != ENULLP) {
        printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
    }

    /*-----------------------------*/
    printf("nstrcasestr_s TESTING\n");
    rc = strcasestr_s(str1, LEN, NULL, LEN, &sub);
    if (rc != ENULLP) {
        printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
    }

    /*-----------------------------*/
    printf("strcasestr_s\n");
    rc = strcasestr_s(str1, LEN, str2, LEN, NULL);
    if (rc != ENULLP) {

}
printf("%s %u  Error rc=%d \n",
    __FUNCTION__, __LINE__, rc);
}

/*------------------------------------*/
rc = strcasestr_s(str1, 0, str2, LEN, &sub);
if (rc != ESZEROL) {
    printf("%s %u  Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
/*------------------------------------*/
rc = strcasestr_s(str1, RSIZE_MAX_STR+1, str2, LEN, &sub);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
/*------------------------------------*/
rc = strcasestr_s(str1, LEN, str2, 0, &sub);
if (rc != ESZEROL) {
    printf("%s %u  Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
/*------------------------------------*/
rc = strcasestr_s(str1, LEN, str2, RSIZE_MAX_STR+1, &sub);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
/*------------------------------------*/
*str1 = '\0';
*str2 = '\0';

rc = strcasestr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
if (sub != str1) {

printf("%s %u Error rc=%d \n",
    __FUNCTION__, __LINE__, rc);
}

/* compare to legacy */
/*
std_sub = strcasestr(str1, str2);
if (sub != std_sub) {
    printf("%s %u Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}
*/
/*----------------------------------*/

*str1 = '\0';
strcpy(str1, "key");

rc = strcasestr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
if (sub != str1) {
    printf("%s %u Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
/* compare to legacy */
/*
std_sub = strcasestr(str1, str2);
if (sub != std_sub) {
    printf("%s %u Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}
*/
/*----------------------------------*/

strcpy(str1, "keep it all together");
*str2 = '\0';

/* str2 being empty, must return str1 */
rc = strcasestr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
if (sub != str1) {
    printf("%s %u  Error rc=%d 
",
           __FUNCTION__, __LINE__, rc);
}
/* compare to legacy */
/*
std_sub = strcasestr(str1, str2);
if (sub != std_sub) {
    printf("%s %u  Error rc=%u 
",
           __FUNCTION__, __LINE__, rc);
}
*/
/*--------------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "kee");

/* substring at beginning */
rc = strcasestr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%d 
",
           __FUNCTION__, __LINE__, rc);
}
if (sub != &str1[0]) {
    printf("%s %u  Error rc=%d 
",
           __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "eep it");
/* substring in the middle - left */
rc = strcasestr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%d 
",
           __FUNCTION__, __LINE__, rc);
}
if (sub != &str1[1]) {
    printf("%s %u  Error rc=%d 
",
           __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "ethe");

/* substring in the middle - right */
rc = strcasestr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
if (sub != &str1[15]) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "er");
len1 = strlen(str1);
len2 = strlen(str2);
/* substring at the end */
rc = strcasestr_s(str1, len1, str2, len2, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
if (sub != &str1[18]) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "it all");

/* compare to legacy */
/* std_sub = strcasestr(str1, str2); */
if (sub != std_sub) {
    printf("%s %u  Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "it all");
/* str1 is unterminated */
rc = strcasestr_s(str1, 3, str2, LEN, &sub);
if (rc != ESUNTERM) {
    printf("%s %u Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
if (sub != NULL) {
    printf("%s %u Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "it all");
/* str1 is unterminated */
rc = strcasestr_s(str1, LEN, str2, 5, &sub);
if (rc != ESUNTERM) {
    printf("%s %u Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
if (sub != NULL) {
    printf("%s %u Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "1234");
len1 = strlen(str1);
/* str1 is unterminated */
rc = strcasestr_s(str1, len1, str2, LEN, &sub);
if (rc != ESNOTFND) {
    printf("%s %u Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
if (sub != NULL) {
    printf("%s %u Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
strcpy(str1, "keep it all together");
strcpy(str2, "IT ALL");

/* str2 is unterminated */
rc = strcasestr_s(str1, LEN, str2, 2, &sub);
if (rc != ESNOTFND) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (sub != NULL) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

strcpy(str1, "keep it all together");
strcpy(str2, "eep");

/* validate */
rc = strcasestr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
if (sub != &str1[1]) {
    printf("%s %u  Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

/* compare to legacy */
/*
std_sub = strcasestr(str1, str2);
if (sub != std_sub) {
    printf("%s %u  Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
} */
/
/*
*/
printf("\n\nDone \n");
return ;
}
static void test_strcat_s(void)
{
    int LEN=128;

    errno_t rc;

    int32_t ind;

    char str1[LEN];
    char str2[LEN];

    /*-----------------------------------------------*/
    printf("strcat_s TESTING
");
    rc = strcat_s(NULL, LEN, str2);
    if (rc != ESNULLP) {
        debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__,  rc);
    }
    /*-----------------------------------------------*/
    rc = strcat_s(str1, LEN, NULL);
    if (rc != ESNULLP) {
        debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__,  rc);
    }
    /*-----------------------------------------------*/
    rc = strcat_s(str1, 0, str2);
    if (rc != ESZEROL) {
        debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__,  rc);
    }
    /*-----------------------------------------------*/
    rc = strcat_s(str1, (RSIZE_MAX_STR+1), str2);
    if (rc != ESLEMAX) {
        debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__,  rc);
    }
    /*-----------------------------------------------*/
}
strcpy(str1, "aaaaaaaaaa");
strcpy(str2, "keep it simple");

rc = strcat_s(str1, 1, str2);
if (rc != ESUNTERM) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
if (str1[0] != '\0') {
    debug_printf("%s %u  Expected null \n", __FUNCTION__, __LINE__);  
}

/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaa");
strcpy(str2, "keep it simple");

rc = strcat_s(str1, 2, str2);
if (rc != ESUNTERM) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
if (str1[0] != '\0') {
    debug_printf("%s %u  Expected null \n", __FUNCTION__, __LINE__);  
}

/*--------------------------------------------------*/
strcpy(&str1[0], "aaaaaaaaaa");
strcpy(&str2[0], "keep it simple");

rc = strcat_s(str1, 50, str2);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
/*--------------------------------------------------*/
str1[0] = '\0';
strcpy(str2, "keep it simple");
rc = strcat_s(str1, 1, str2);
if (rc != ESNOSPC) {
    debug_printf("%s %u  Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

if (str1[0] != '\0') {
    debug_printf("%s %u  Expected null \n", __FUNCTION__, __LINE__);
}
/*--------------------------------------------------*/
str1[0] = '\0';
strcpy(str2, "keep it simple");
rc = strcat_s(str1, 2, str2);
if (rc != ESNOSPC) {
    debug_printf("%s %u  Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
/*--------------------------------------------------*/
str1[0] = '\0';
str2[0] = '\0';
rc = strcat_s(str1, LEN, str2);
if (rc != EOK) {
    debug_printf("%s %u  Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
/*--------------------------------------------------*/
str1[0] = '\0';
str2[0] = '\0';
rc = strcat_s(str1, LEN, str2);
if (rc != EOK) {
    debug_printf("%s %u  Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
str1[0] = '\0';
strcpy(str2, "keep it simple");
rc = strcat_s(str1, LEN, str2);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}

ind = strcmp(str1, str2);
if (ind != 0) {
    debug_printf("%s %u   Error -%s- \n",
                __FUNCTION__, __LINE__, str1);
}
/*--------------------------------------------------*/
strcpy(str1, "qqweqq");
strcpy(str2, "keep it simple");
rc = strcat_s(str1, LEN, str2);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}

ind = strcmp(str1, "qqweqqkeep it simple");
if (ind != 0) {
    debug_printf("%s %u   Error -%s- \n",
                __FUNCTION__, __LINE__, str1);
}
/*--------------------------------------------------*/
strcpy(str1, "1234");
strcpy(str2, "keep it simple");
rc = strcat_s(str1, 12, str2);
if (rc != ESNOSPC) {
    debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy(str1, "1234");
strcpy(str2, "keep it simple");
rc = strcat_s(str1, 52, str2);
if (rc != EOK) {
    debug_printf("%s %u Error rc=%u \n", 
                 __FUNCTION__, __LINE__, rc);
}

ind = strcmp(str1, "1234keep it simple");
if (ind != 0) {
    debug_printf("%s %u Error -%s- \n", 
                 __FUNCTION__, __LINE__, str1);
}
/*--------------------------------------------------*/
strcpy(str1, "12345678901234567890");
rc = strcat_s(str1, 21, &str1[5]);
if (rc != ESOVRLP) {
    debug_printf("%s %u Error rc=%u \n", 
                 __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy(str2, "123");
strcpy(str1, "keep it simple");
rc = strcat_s(str2, 31, &str1[0]);
if (rc != EOK) {
    debug_printf("%s %u Error rc=%u \n", 
                 __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy(str2, "1234");
strcpy(str1, "keep it simple");
rc = strcat_s(str2, 31, str1);
if (rc != EOK) {
    debug_printf("%s %u Error rc=%u \n", 
                 __FUNCTION__, __LINE__, rc);
}
static void test_strcmp_s(void)
{
    int LEN=128;
    //int SHORT_LEN=5;

    //    char temp_char;
        errno_t rc;

    int ind;
    int std_ind;

    char   str1[LEN];
    char   str2[LEN];

    /*---------------------------*/
    printf("strcmp_s TESTING\n");
    rc = strcmp_s(NULL, LEN, str2, &ind);
    if (rc != E_NULLP) {
        printf("%s %u  Error rc=%d \n",
                __FUNCTION__, __LINE__, rc);
    }
    /*---------------------------*/
    rc = strcmp_s(str1, LEN, NULL, &ind);
    if (rc != E_NULLP) {
        printf("%s %u  Error rc=%d \n",
                __FUNCTION__, __LINE__, rc);
    }
    /*---------------------------*/
    rc = strcmp_s(str1, LEN, str2, NULL);
    if (rc != E(NULL)) {
        printf("%s %u  Error rc=%d \n",
                __FUNCTION__, __LINE__, rc);
    }
/*--------------------------------------------------*/

rc = strcmp_s(str1, 0, str2, &ind);
if (rc != ESZEROL) {
        printf("%s %u Error rc=%d \n",
                __FUNCTION__, __LINE__, rc);
    }

/*--------------------------------------------------*/

rc = strcmp_s(str1, RSIZE_MAX_STR+1, str2, &ind);
if (rc != ESLEMAX) {
        printf("%s %u Error rc=%d \n",
                __FUNCTION__, __LINE__, rc);
    }

/*--------------------------------------------------*/

str1[0] = '\0';
str2[0] = '\0';

rc = strcmp_s(str1, LEN, str2, &ind);
if (rc != EOK) {
        printf("%s %u Error rc=%d \n",
                __FUNCTION__, __LINE__, rc);
    }

if (ind != 0) {
        printf("%s %u Error ind=%d rc=%d \n",
                __FUNCTION__, __LINE__, ind, rc);
    }

std_ind = strcmp(str1, str2);
if (ind != std_ind) {
        printf("%s %u ind=%d std_ind=%d rc=%d \n",
                __FUNCTION__, __LINE__, ind, std_ind, rc);
    }

/*--------------------------------------------------*/

/* K - k == -32 */
strcpy (str1, "keep it simple");
strcpy (str2, "keep it simple");

rc = strcmp_s(str1, 5, str2, &ind);
if (rc != ESUNTERM) {
        printf("%s %u Error rc=%d \n",
                __FUNCTION__, __LINE__, rc);
    }
strcpy (str1, "Keep it simple");
strcpy (str2, "keep it simple");
rc = strcmp_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
if (ind == 0) {
    printf("%s %u  Error ind=%d  rc=%d \n",
           __FUNCTION__, __LINE__, ind, rc);
}
std_ind = strcmp(str1, str2);
if (ind != std_ind) {
    printf("%s %u  ind=%d  std_ind=%d  rc=%d \n",
           __FUNCTION__, __LINE__, ind, std_ind, rc);
}
strcpy (str1, "keep it simple");
strcpy (str2, "keeP it simple");
rc = strcmp_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
if (ind == 0) {
    printf("%s %u  Error ind=%d  rc=%d \n",
           __FUNCTION__, __LINE__, ind, rc);
}
std_ind = strcmp(str1, str2);
if (ind != std_ind) {
strcpy (str1, "keep it simple");

rc = strcmp_s(str1, LEN, str1, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
if (ind <= 0) {
    printf("%s %u  Error ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, rc);
}
/* be sure the results are the same as strcmp */
std_ind = strcmp(str1, str1);
if (ind != std_ind) {
    printf("%s %u  ind=%d  std_ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, std_ind, rc);
}

strcpy (str2, "keep it simple");

rc = strcmp_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
if (ind <= 0) {
    printf("%s %u  Error ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, rc);
}
/* be sure the results are the same as strcmp */
std_ind = strcmp(str1, str2);
if (ind != std_ind) {
static void test_strcmpfld_s(void)
{
    int MAX=128;
    int LEN=128;

    errno_t rc;

    uint32_t i;
    rszize_t len;
    int ind;

    char   str1[LEN];
    char   str2[LEN];

    strcpy (str1, "keep it simple");
    strcpy (str2, "keep it simplified");

    rc = strcmp_s(str1, LEN, str2, &ind);
    if (rc != EOK) {
        printf("%s %u  Error rc=%d \n", 
                __FUNCTION__, __LINE__, rc);
    }

    if (ind >= 0) {
        printf("%s %u  Error ind=%d  rc=%d \n", 
                __FUNCTION__, __LINE__,  ind, rc);
    }

    /* be sure the results are the same as strcmp */
    std_ind = strcmp(str1, str2);
    if (ind != std_ind) {
        printf("%s %u  ind=%d  std_ind=%d  rc=%d \n", 
                __FUNCTION__, __LINE__,  ind, std_ind, rc);
    }

    printf("\n\nDone \n");
    return ;
}
printf("unstrcmpfld_s TESTING\n");

rc = strcmpfld_s(NULL, LEN, str2, &ind);
if (rc != ESNULLP) {
    debug_printf("%s %u Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

len = 5;
rc = strcmpfld_s(str1, len, NULL, &ind);
if (rc != ESNULLP) {
    debug_printf("%s %u Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

len = 5;
rc = strcmpfld_s(str1, len, str2, NULL);
if (rc != ESNULLP) {
    debug_printf("%s %u Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

rc = strcmpfld_s(str1, 0, str2, &ind);
if (rc != ESZEROL) {
    debug_printf("%s %u Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

rc = strcmpfld_s(str1, (RSIZE_MAX_STR+1), str2, &ind);
if (rc != ESLEMAX) {
    debug_printf("%s %u Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
strcpy(str2, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");

len = 1;
rc = strcmpfld_s(str1, len, str2, &ind);
if (rc != EOK) {
    debug_printf("%s %u Error rc=%u\n",
    __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u diff s1[%d]=%d s2[%d]=%d ind=%d rc=%u \n",
        __FUNCTION__, __LINE__, i, str1[i], i, str2[i], ind, rc);
    }
}
/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
strcpy(str2, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");

len = 2;
rc = strcmpfld_s(str1, len, str2, &ind);
if (rc != EOK) {
    debug_printf("%s %u Error rc=%u\n",
    __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u diff s1[%d]=%d s2[%d]=%d ind=%d rc=%u \n",
        __FUNCTION__, __LINE__, i, str1[i], i, str2[i], ind, rc);
    }
}
/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
strcpy(str2, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");

len = 3;
rc = strcmpfld_s(str1, len, str2, &ind);
if (rc != EOK) {
    debug_printf("%s %u Error rc=%u\n",
    __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  ind=%d  rc=%u
",
            __FUNCTION__, __LINE__, i, str1[i], i, str2[i], ind, rc);
    }
}

strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
strcpy(str2, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");

len = strlen(str1);
rc = strcmpfld_s(str1, len, str2, &ind);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  ind=%d  rc=%u \n",
            __FUNCTION__, __LINE__, i, str1[i], i, str2[i], ind, rc);
    }
}

strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
str1[10] = '\0';

strcpy(str2, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
str2[10] = '\0';

len = strlen(str1);
rc = strcmpfld_s(str1, len, str2, &ind);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  ind=%d  rc=%u \n",
            __FUNCTION__, __LINE__, i, str1[i], i, str2[i], ind, rc);
    }
}
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
len = strlen(str1);
str1[0] = \'0\';
str1[15] = \'0\';

strcpy(str2, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
str2[0] = \'0\';
str2[15] = \'0\';

rc = strcmpfld_s(str1, len, str2, &ind);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  ind=%d  rc=%u \n", __FUNCTION__, __LINE__, i, str1[i], i, str2[i], ind, rc);
    }
}

strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
len = strlen(str1);
str1[3] = \'0\';  /* now place a null */

strcpy(str2, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
str2[3] = \'0\';

rc = strcmpfld_s(str1, len, str2, &ind);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  ind=%d  rc=%u \n", __FUNCTION__, __LINE__, i, str1[i], i, str2[i], ind, rc);
    }
}
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
len = strlen(str1);
str1[1] = '0'; /* now place nulls */
str1[20] = '0';

strcpy(str2, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
str2[1] = '0';
str2[20] = '0';

crc = strcmpfld_s(str1, len, str2, &ind);
if (rc != EOK) {
    debug_printf("%s %u Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  ind=%d  rc=%u \n", __FUNCTION__, __LINE__, i, str1[i], i, str2[i], ind, rc);
    }
}

/*--------------------------------------------------
/*--------------------------------------------------

printf("\n\nDone \n");
return ;
}

static void test_strcpy_s(void)
{
    //int MAX=128;
    int LEN=128;
    
    errno_t rc;

    int32_t ind;
    char str1[LEN];
    char str2[LEN];

    /*---------------------------------------------------*/

    printf("\n\nstrcpy_s TESTING\n");
}
rc = strcpy_s(NULL, LEN, str2);
if (rc != ESNULLP) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
rc = strcpy_s(str1, 5, NULL);
if (rc != ESNULLP) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
#endif
#endif

strcpy(str1, str2);
rc = strcpy_s(str1, 0, str2);
if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

rc = strcpy_s(str1, (RSIZE_MAX_STR+1), str2);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

rc = strcpy_s(str1, 0, str2);
if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

rc = strcpy_s(str1, (RSIZE_MAX_STR+1), str2);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

rc = strcpy_s(str1, 0, str2);
if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

rc = strcpy_s(str1, (RSIZE_MAX_STR+1), str2);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

rc = strcpy_s(str1, 0, str2);
if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

rc = strcpy_s(str1, (RSIZE_MAX_STR+1), str2);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

rc = strcpy_s(str1, 0, str2);
if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

rc = strcpy_s(str1, (RSIZE_MAX_STR+1), str2);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

rc = strcpy_s(str1, 0, str2);
if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

rc = strcpy_s(str1, (RSIZE_MAX_STR+1), str2);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

rc = strcpy_s(str1, 0, str2);
if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

rc = strcpy_s(str1, (RSIZE_MAX_STR+1), str2);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

rc = strcpy_s(str1, 0, str2);
if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

rc = strcpy_s(str1, (RSIZE_MAX_STR+1), str2);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
str2[0] = \0;

rc = strcpy_s(str1, LEN/2, str2);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}

#ifdef SAFE_LIB_STR_NULL_SLACK
    for (i=0; i<LEN/2; i++) {
        if (str1[i] != \0) {
            debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
        }
    }
#else
    if (str1[0] != \0) {
        debug_printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
    }
#endif

/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");

rc = strcpy_s(str1, LEN, str1);
if (rc != ESOVRLP) {
    debug_printf("%s %u   Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}

#ifdef SAFE_LIB_STR_NULL_SLACK
    for (i=0; i<LEN; i++) {
        if (str1[i] != \0) {
            debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
        }
    }
#else
    if (str1[0] != \0) {
        debug_printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
    }
#endif
strncpy(&str1[0], "keep it simple");

rc = strcpy_s(&str1[0], LEN, &str1[5]);
if (rc != ESOVRLP) {
    debug_printf("%s %u   Error rc=%u \n", 
                __FUNCTION__, __LINE__, rc );
}

#ifdef SAFE_LIB_STR_NULL_SLACK
for (i=0; i<LEN; i++) {
    if (str1[i] != '\0') {
        debug_printf("%s %u   Error rc=%u \n", 
                    __FUNCTION__, __LINE__, rc );
    }
}
#else
if (str1[0] != '\0') {
    debug_printf("%s %u   Error rc=%u \n", 
                __FUNCTION__, __LINE__, rc );
}
#endif

strcpy(&str1[0], "keep it simple");
str2[0] = '\0';

rc = strcpy_s(str1, LEN, str2);  
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", 
                __FUNCTION__, __LINE__, rc );
}

if (*str1 != '\0') {
    debug_printf("%s %u -%s-  Error rc=%u \n", 
                __FUNCTION__, __LINE__, str1, rc );
}

strcpy(&str2[0], "keep it simple");

str1[0] = '\0';
strncpy(&str2[0], "keep it simple");

rc = strcpy_s(str1, LEN, str2);  
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", 
                __FUNCTION__, __LINE__, rc );
}
/* be sure the results are the same as strcmp */
ind = strcmp(str1, str2);
if (ind != 0) {
    debug_printf("%s %u -%s-  Error rc=%u \n",
        __FUNCTION__, __LINE__,  str1, rc);
}
/*--------------------------------------------------*/
strcpy(str1, "qqweqeqeqeq");
strcpy(str2, "keep it simple");
rc = strcpy_s(str1, LEN, str2);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
        __FUNCTION__, __LINE__,  rc);
}
/* be sure the results are the same as strcmp */
ind = strcmp(str1, str2);
if (ind != 0) {
    debug_printf("%s %u -%s-  Error rc=%u \n",
        __FUNCTION__, __LINE__,  str1, rc);
}
/*--------------------------------------------------*/
strcpy(str1, "qqweqeqeqeq");
strcpy(str2, "keep it simple");
rc = strcpy_s(str1, 1, str2);
if (rc != ESNOSPC) {
    debug_printf("%s %u   Error rc=%u \n",
        __FUNCTION__, __LINE__,  rc);
}
if (*str1 != '0') {
    debug_printf("%s %u -%s-  Error rc=%u \n",
        __FUNCTION__, __LINE__,  str1, rc);
}
/*--------------------------------------------------*/
strcpy(str1, "qqweqeqeqeq");
strcpy(str2, "keep it simple");
rc = strcpy_s(str1, 2, str2);
if (rc != ESNOSPC) {
    debug_printf("%s %u   Error rc=%u\n", 
    __FUNCTION__, __LINE__, rc);
}
if (*str1 != '\0') {
    debug_printf("%s %u -%s-  Error rc=%u\n", 
    __FUNCTION__, __LINE__, str1, rc);
}
/*--------------------------------------------------*/
strcpy(str1, "qqweqeqeqeq");
strcpy(str2, "it");
rc = strcpy_s(str1, 3, str2);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u\n", 
    __FUNCTION__, __LINE__, rc);
}
/* be sure the results are the same as strcmp */
ind = strcmp(str1, str2);
if (ind != 0) {
    debug_printf("%s %u -%s-  Error rc=%u\n", 
    __FUNCTION__, __LINE__, str1, rc);
}
/*--------------------------------------------------*/
strcpy(str1, "qq12345weqeqeqeq");
strcpy(str2, "it");
rc = strcpy_s(str1, 10, str2);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u\n", 
    __FUNCTION__, __LINE__, rc);
}
/* be sure the results are the same as strcmp */
ind = strcmp(str1, str2);
if (ind != 0) {
    debug_printf("%s %u -%s-  Error rc=%u\n", 
    __FUNCTION__, __LINE__, str1, rc);
}
```c
//for (i=0; i<10; i++) {
//    printf("str1[\%i] = \%d \n", i, str1[i]);
//}

/*-----------------------------------------------*/

    printf("\n\nDone ");
    return;
}

static void test_strcpyfld_s(void)
{
    int LEN=128;

    errno_t rc;
    uint32_t i;
    rsize_t len = 5;
    rsize_t slen = 5;

    char str1[LEN];
    char str2[LEN];

    printf("\nstrcpyfld_s TESTING\n");

    /*-----------------------------------------------*/

    rc = strcpyfld_s(NULL, LEN, str2, slen);
    if (rc != ESNULLP) {
        debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc );
    }

    /*-----------------------------------------------*/

    strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");

    rc = strcpyfld_s(str1, len, NULL, slen);
    if (rc != ESNULLP) {
        debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc );
    }

    for (i=0; i<len; i++) {
        if (str1[i] != \0) {
            debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc );
        }
    }
```
len = 5;
slen = 5;
rc = strcpyfld_s(str1, 0, str2, slen);
if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}

len = 5;
slen = 5;
rc = strcpyfld_s(str1, (RSIZE_MAX_STR+1), str2, slen);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}

len = 5;
slen = 0;
rc = strcpyfld_s(str1, len, str2, slen);
if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}

len = 5;
slen = len+1;
rc = strcpyfld_s(str1, (RSIZE_MAX_STR+1), str2, slen);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}

strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
len = 1;
strcpy(str2, "bbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb");
slen = 1;
str2[0] = '\0';

rc = strcpyfld_s(str1, len, str2, slen);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d   rc=%u \n", __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

/*------------------------------------------------__*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
len = 2;

strcpy(str2, "bbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb");
slen = 2;
str2[0] = '\0';

rc = strcpyfld_s(str1, len, str2, slen);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d   rc=%u \n", __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

/*------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
len = 3;

strcpy(str2, "bbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb");
slen = 3;
str2[0] = '\0';
rc = strcpyfld_s(str1, len, str2, slen);
if (rc != EOK) {
    debug_printf("%s %u  Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d   rc=%u \n",
                        __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
len = strlen(str1);

strcpy(str2, "bbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb");
slen = strlen(str1);
str2[0] = \0;
rc = strcpyfld_s(str1, len, str2, slen);
if (rc != EOK) {
    debug_printf("%s %u  Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d   rc=%u \n",
                        __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
len = strlen(str1) + 2;
str1[20] = \0;

strcpy(str2, "bbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb");
slen = strlen(str1);
str2[0] = \0;
str2[20] = \0;
rc = strcpyfld_s(str1, len, str2, slen);
if (rc != EOK) {

debug_printf("\%s \%u  Error rc=\%u \n",  
   __FUNCTION__, __LINE__, rc);
}

for (i=0; i<slen; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("\%s \%u  diff s1[%d]=\%d  s2[%d]=\%d  rc=\%u \n",  
          __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
        }
    }

/*--------------------------------------------------*/
/*--------------------------------------------------*/

printf("\n\nDone \n");
return;
}

static void test_strncpyldin_s(void)
{
    int LEN=128;

erro_t rc;
uint32_t i;
rsize_t len;
rsize_t slen;

    char str1[LEN];
    char str2[LEN];

    /*-------------------------------------------*/
    printf("\nstrncpyldin_s TESTING\n");
    rc = strncpyldin_s(NULL, LEN, str2, LEN);
    if (rc != ESNULLP) {
        debug_printf("\%s \%u  Error rc=\%u \n",  
           __FUNCTION__, __LINE__, rc);
    }

    /*-------------------------------------------*/
    len = 5;
    rc = strncpyldin_s(str1, len, NULL, LEN);
    if (rc != ESNULLP) {
        debug_printf("\%s \%u  Error rc=\%u \n",  
          __FUNCTION__, __LINE__, rc);
    }
}
for (i=0; i<len; i++) {
    if (str1[i] != '0') {
        debug_printf("%s %u   Error rc=%u \n",
                    __FUNCTION__, __LINE__, rc);
    }
}

/*--------------------------------------------------*/
rc = strcpyfldin_s(str1, 0, str2, LEN);
if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n",
                    __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaa");
strcpy(str2, "01234567890123456789");
len = strlen(str1);
slen = strlen(str2);
rc = strcpyfldin_s(str1, len, str2, slen);
if (rc == EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                    __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (str1[i] != 0) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n",
                    __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}
/*--------------------------------------------------*/
rc = strcpyfldin_s(str1, (RSIZE_MAX_STR+1), str2, LEN);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n",
                    __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
rc = strcpyfldin_s(str1, 0, str2, LEN);
if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n",
                    __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/

strcpy(str1, "aaaaaaaaaaaaaaaaaa");
strcpy(str2, "01234567890123456789");
len = strlen(str1);
slen = strlen(str2);
rc = strcpyfldin_s(str1, len, str2, slen);
if (rc == EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                    __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (str1[i] != 0) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n",
                    __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}
/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
strcpy(str2, "01234567890123456789");

len = 1;
rc = strcpyfldin_s(str1, len, str2, len);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n", 
                      __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
strcpy(str2, "01234567890123456789");

len = 2;
rc = strcpyfldin_s(str1, len, str2, len);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n", 
                      __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
strcpy(str2, "01234567890123456789");

len = 3;
rc = strcpyfldin_s(str1, len, str2, len);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("\%s \%u  diff \%s\[%u\]=\%d  \%s\[%u\]=\%d  rc=\%u \n",
                    __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");

/* same string in dest and src */
len = LEN;
rc = strcpyfldin_s(str1, len, str1, len);
if (rc != ESOVRLP) {
    debug_printf("\%s \%u   Error rc=\%u \n",
                    __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (str1[i] != \0) {
        debug_printf("\%s \%u  diff s1[\%d]=\%d  s2[\%d]=\%d  rc=\%u \n",
                    __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}
/*--------------------------------------------------*/
strcpy(str1, "keep it simple for best results ");
len = strlen(str1);

/* overlap */
rc = strcpyfldin_s(&str1[0], len, &str1[5], len);
if (rc != ESOVRLP) {
    debug_printf("\%s \%u   Error rc=\%u \n",
                    __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (str1[i] != \0) {
        debug_printf("\%s \%u  diff s1[\%d]=\%d  s2[\%d]=\%d  rc=\%u \n",
                    __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}
/*--------------------------------------------------*/

strcpy(str1, "keep it simple for best results ");
len = 20;

/* overlap */
rc = strcpyfdlin_s(&str1[10], len, &str1[0], len);
if (rc != ESOVRLP) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
for (i=10; i<len; i++) {
    if (str1[i] != '0') {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n", __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

/*--------------------------------------------------*/
strcpy(str1, "keep it simple");
len = strlen(str1);
strcpy(str2, "KEEP IT SIMPLE PLEASE");
rc = strcpyfdlin_s(str1, len, str2, len);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n", __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

/*--------------------------------------------------*/
strcpy(str1, "always keep it simple");
len = strlen(str1);
strcpy(str2, "keep it simple");
slen = strlen(str2);
rc = strcpyfdlin_s(str1, len, str2, slen);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
for (i=0; i<slen; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n",
            __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

/*--------------------------------------------------*/
/*--------------------------------------------------*/
printf("\n\nDone \n");
return ;
}

static void test_strncpyldout_s(void)
{
    int LEN=128;
    errno_t rc;
    uint32_t i;
    rsize_t len = 5;
    rsize_t slen = 0;

    char   str1[LEN];
    char   str2[LEN];

    /*-----------------------------------------------*/
    printf("\nstrncpyldout_s TESTING\n");

    rc = strncpyldout_s(NULL, LEN, str2, slen);
    if (rc != EISNULLP) {
        debug_printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc);
    }
    /*-----------------------------------------------*/

    rc = strncpyldout_s(str1, len, NULL, len);
    if (rc != EISNULLP) {
        debug_printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc);
    }
    for (i=0; i<len; i++) {
        if (str1[i] != '\0') {

debug_printf("%s %u Error rc=%u \n",
__FUNCTION__, __LINE__, rc);
}
}

/*-----------------------------------------------*/

rc = strcpyfldout_s(str1, 0, str2, LEN);
if (rc != ESZEROL) {
    debug_printf("%s %u Error rc=%u \n",
__FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

rc = strcpyfldout_s(str1, (RSIZE_MAX_STR+1), str2, LEN);
if (rc != ESLEMAX) {
    debug_printf("%s %u Error rc=%u \n",
__FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

len = 5;
rc = strcpyfldout_s(str1, len, str2, slen);
if (rc != ESZEROL) {
    debug_printf("%s %u Error rc=%u \n",
__FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

len = 5;
slen = 6;
rc = strcpyfldout_s(str1, len, str2, slen);
if (rc != ESLEMAX) {
    debug_printf("%s %u Error rc=%u \n",
__FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

/*--------------------------------------------------*/

strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
strcpy(str2, "01234567890123456789");

len = 1;
slen = 1;
rc = strcpyfldout_s(str1, len, str2, slen);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",  
        __FUNCTION__, __LINE__, rc);
}

/* str1 becomes null */
for (i=0; i<len; i++) {
    if (str1[i] != '\0') {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n",  
            __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa\0");
strcpy(str2, "01234567890123456789");
len = 2;
slen = 2;
rc = strcpyfldout_s(str1, len, str2, slen);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",  
        __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len-1; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n",  
            __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa\0");
strcpy(str2, "01234567890123456789");
len = 3;
slen = 3;
rc = strcpyfldout_s(str1, len, str2, slen);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",  
        __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len-1; i++) {

if (str1[i] != str2[i]) {
    debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n",
            __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
}
}

/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");

/* same string in dest and src */
len = LEN;
rc = strcpyfldout_s(str1, len, str1, len);
if (rc != ESOVRLP) {
    debug_printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (str1[i] != 0) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n",
                        __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}
/*--------------------------------------------------*/
strcpy(str1, "keep it simple for best results");
len = strlen(str1);

/* overlap */
rc = strcpyfldout_s(&str1[0], len, &str1[5], len);
if (rc != ESOVRLP) {
    debug_printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (str1[i] != 0) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n",
                        __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}
/*--------------------------------------------------*/
strcpy(str1, "keep it simple for best results ");
len = 20;

/* overlap */
rc = strcpyfldout_s(&str1[10], len, &str1[0], len);
if (rc != ESOVRLP) {
    debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}

for (i=10; i<len; i++) {
    if (str1[i] != '0') {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n",
                      __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

/*--------------------------------------------------*/
strcpy(str1, "keep it simple");
len = strlen(str1);

strcpy(str2, "aaaaaaaaaaaaaaa");
slen = strlen(str2);
rc = strcpyfldout_s(str1, len, str2, slen);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len-1; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n",
                      __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

/*--------------------------------------------------*/
strcpy(str1, "always keep it simple");
len = strlen(str1);

strcpy(str2, "keep it simple");
slen = strlen(str2);
rc = strcpyfldout_s(str1, len, str2, slen);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}
for (i=0; i<slen; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n",
                     __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

/*--------------------------------------------------
/*--------------------------------------------------

done 
return;
}

static void test_strcspn_s(void)
{
int LEN=128;

errno_t rc;

rsize_t count;
int std_count;

// rsize_t len;

char   str1[LEN];
char   str2[LEN];

/*--------------------------------------------------
printf("\n\n\nDone \n\n\nDone \n"");
return;
}

}
/*---------------------------------------------*/

rc = strcspn_s(str1, LEN, str2, LEN, NULL);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*---------------------------------------------*/

rc = strcspn_s(str1, 0, str2, LEN, &count);
if (rc != ESZEROL) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*---------------------------------------------*/

rc = strcspn_s(str1, LEN, str2, 0, &count);
if (rc != ESZEROL) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*---------------------------------------------*/

rc = strcspn_s(str1, RSIZE_MAX_STR+1, str2, LEN, &count);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*---------------------------------------------*/

rc = strcspn_s(str1, RSIZE_MAX_STR, str2, RSIZE_MAX_STR+1, &count);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*---------------------------------------------*/

str1[0] = '0';
str2[0] = '0';
rc = strcspn_s(str1, LEN, str2, LEN, &count);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

if (count != 0) {
    printf("%s %u  Error  count=%d rc=%d \n", __FUNCTION__, __LINE__, count, rc);
}

std_count = strcspn(str1, str2);
if (count != std_count) {
    printf("%s %u  count=%d  std_count=%d  rc=%d \n", __FUNCTION__, __LINE__, count, std_count, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "KEEP");
rc = strcspn_s(str1, 5, str2, LEN, &count);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "KEEP");
rc = strcspn_s(str1, LEN, str2, 2, &count);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "keep");
rc = strcspn_s(str1, LEN, str2, LEN, &count);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
static void test_strfirstchar_s(void)
{
    std_count = strspn(str1, str2);
    if (count != std_count) {
        printf("%s %u count=%d std_count=%d rc=%d \n",
                __FUNCTION__, __LINE__,  count, std_count, rc);
    }

    /*-----------------------------------------------*/

    strcpy (str1, "keep it simple");
    strcpy (str2, "notincluded");

    rc = strcspn_s(str1, LEN, str2, LEN, &count);
    if (rc != EOK) {
        printf("%s %u Error rc=%d \n",
                __FUNCTION__, __LINE__, rc);
    }

    std_count = strcspn(str1, str2);
    if (count != std_count) {
        printf("%s %u count=%d std_count=%d rc=%d \n",
                __FUNCTION__, __LINE__,  count, std_count, rc);
    }

    /*-----------------------------------------------*/

    strcpy (str1, "keep it simple");
    strcpy (str2, "1234567890");

    rc = strcspn_s(str1, LEN, str2, LEN, &count);
    if (rc != EOK) {
        printf("%s %u Error rc=%d \n",
                __FUNCTION__, __LINE__, rc);
    }

    std_count = strcspn(str1, str2);
    if (count != std_count) {
        printf("%s %u count=%d std_count=%d rc=%d \n",
                __FUNCTION__, __LINE__,  count, std_count, rc);
    }

    /*-----------------------------------------------*/

    printf("\n\n\nDone \
\n\n\nRet
    return;
}

Open Source Used In IOS XR Software 7.5.2 14169
int LEN=128;

erno_t rc;
rszize_t len;

char *first;
char str1[LEN];

/*-----------------------------------------------*/
printf("\nstrfirstchar_s TESTING\n");//
rc = strfirstchar_s(NULL, LEN, 'a', &first);
if (rc != ENULLP) {
    printf("%s \%u Error str1=%p first=%p rc=%d \n", 

            __FUNCTION__, __LINE__, str1, first, rc);
}
/*-----------------------------------------------*/
rc = strfirstchar_s(str1, LEN, 'a', NULL);
if (rc != ENULLP) {
    printf("%s \%u Error str1=%p first=%p rc=%d \n", 

            __FUNCTION__, __LINE__, str1, first, rc);
}
/*-----------------------------------------------*/
rc = strfirstchar_s(str1, 0, 'a', &first);
if (rc != ESZEROL) {
    printf("%s \%u Error str1=%p first=%p rc=%d \n", 

            __FUNCTION__, __LINE__, str1, first, rc);
}
/*-----------------------------------------------*/
rc = strfirstchar_s(str1, 0, 'a', &first);
if (rc != ESZEROL) {
    printf("%s \%u Error str1=%p first=%p rc=%d \n", 

            __FUNCTION__, __LINE__, str1, first, rc);
}
/*-----------------------------------------------*/
rc = strfirstchar_s(str1, RSIZE_MAX_STR+1, 'a', &first);
if (rc != ESLEMAX) {
    printf("%s \%u Error str1=%p first=%p rc=%d \n", 

            __FUNCTION__, __LINE__, str1, first, rc);
}
/*-----------------------------------------------*/
str1[0] = '\0';

rc = strfirstchar_s(str1, LEN, 'a', &first);
if (rc != ESNOTFND) {
    printf("%s %u  Error  str1=%p  first=%p  rc=%d \n",
            __FUNCTION__, __LINE__,  str1, first, rc);
}
*/-------------------------------------------------------*/

strcpy (str1, "Keep it simple");

rc = strfirstchar_s (str1, LEN, 'z', &first);
if (rc != ESNOTFND) {
    printf("%s %u  Error  str1=%p  first=%p  rc=%d \n",
            __FUNCTION__, __LINE__,  str1, first, rc);
}

//  printf("%s %u  str1=%p  first=%p   rc=%d \n",
          __FUNCTION__, __LINE__, str1, first, rc);
*/-------------------------------------------------------*/

strcpy (str1, "kEep it simple");

rc = strfirstchar_s (str1, LEN, 'E', &first);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

if (first != &str1[1]) {
    printf("%s %u  Error  str1=%p  first=%p  rc=%d \n",
            __FUNCTION__, __LINE__,  str1, first, rc);
}

//  printf("%s %u  str1=%p  first=%p   rc=%d \n",
          __FUNCTION__, __LINE__, str1, first, rc);
*/-------------------------------------------------------*/

strcpy (str1, "keep it simpleZ");

rc = strfirstchar_s (str1, LEN, 'Z', &first);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

if (first != &str1[14]) {
    printf("%s %u  Error  str1=%p  first=%p  rc=%d \n",
            __FUNCTION__, __LINE__,  str1, first, rc);
}
*/-------------------------------------------------------*/
void test_strfirstchar_s(void)
{
    int LEN=128;
    errno_t rc;

    rsize_t ind;

    char *str1[LEN];
    char *str2[LEN];

    __FUNCTION__, __LINE__, str1, first, rc);

    // printf("%s %u str1=%p first=%p rc=%d\n",
    // __FUNCTION__, __LINE__, str1, first, rc);

    /*-----------------------------------------------*/

    strcpy (str1, "keep it simpleZ");
    len = strlen(str1);

    rc = strfirstchar_s(str1, len, 'Z', &first);
    if (rc != EOK) {
        printf("%s %u Error rc=%d\n",
                __FUNCTION__, __LINE__, rc);
    }

    if (first != &str1[14]) {
        printf("%s %u Error str1=%p first=%p rc=%d
",
                __FUNCTION__, __LINE__, str1, first, rc);
    }

    /*-----------------------------------------------*/

    printf("\n\nDone\n\n")
    return;
}

static void test_strfirstdiff_s(void)
{
    int LEN=128;
    errno_t rc;

    rsize_t ind;

    char *str1[LEN];
    char *str2[LEN];

    /*-----------------------------------------------*/

    printf("strfirstdiff_s TESTING\n");
    return;
}

void test_strfirstdiff_s(void)
{
    int LEN=128;
    errno_t rc;

    rsize_t ind;

    char *str1[LEN];
    char *str2[LEN];

    /*-----------------------------------------------*/

    printf("strfirstdiff_s TESTING\n");
    rc = strfirstdiff_s(NULL, LEN, str2, &ind);
    if (rc != ESNULLP) {
        printf("%s %u Error rc=%d\n",
                __FUNCTION__, __LINE__, rc);
    }

    /*-----------------------------------------------*/

    printf("strfirstdiff_s TESTING\n");
    rc = strfirstdiff_s(NULL, LEN, str2, &ind);
    if (rc != ESNULLP) {
        printf("%s %u Error rc=%d\n",
                __FUNCTION__, __LINE__, rc);
    }

    /*-----------------------------------------------*/

    printf("\n\nDone\n\n")
    return;
}
rc = strfirstdiff_s(str1, LEN, NULL, &ind);
if (rc != ESNULLP) {
    printf("%s %u Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
rc = strfirstdiff_s(str1, LEN, str2, NULL);
if (rc != ESNULLP) {
    printf("%s %u Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
rc = strfirstdiff_s(str1, 0, str2, &ind);
if (rc != ESZEROL) {
    printf("%s %u Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
rc = strfirstdiff_s(str1, RSIZE_MAX_STR+1, str2, &ind);
if (rc != ESLEMAX) {
    printf("%s %u Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
str1[0] = \0;
str2[0] = \0;
rc = strfirstdiff_s(str1, LEN, str2, &ind);
if (rc != ESNODIFF) {
    printf("%s %u Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (ind != 0) {
    printf("%s %u Error  ind=%d rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);
}
/*--------------------------------------------------*/
/*   K - k == -32 */
strcpy (str1, "Keep it simple");
strcpy (str2, "keep it simple");

rc = strfirstdiff_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

if (ind != 0) {
    printf("%s %u  Error ind=%d  rc=%d \n",
            __FUNCTION__, __LINE__,  ind, rc);
}
    // printf("%s %u  ind=%d   rc=%d \n",
    //                     __FUNCTION__, __LINE__, ind, rc);

strcpy (str1, "kEep it simple");
strcpy (str2, "keep it simple");

rc = strfirstdiff_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

if (ind != 1) {
    printf("%s %u  Error ind=%d  rc=%d \n",
            __FUNCTION__, __LINE__,  ind, rc);
}
    // printf("%s %u  ind=%d   rc=%d \n",
    //                     __FUNCTION__, __LINE__, ind, rc);

strcpy (str1, "keep it simple");
strcpy (str2, "keEp it simple");

rc = strfirstdiff_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

if (ind != 2) {
    printf("%s %u  Error ind=%d  rc=%d \n",
           __FUNCTION__, __LINE__, ind, rc);
} //
    printf("%s %u  ind=%d   rc=%d \n",
    __FUNCTION__, __LINE__, ind, rc);

/*--------------------------------------------------*/
strcpy (str1, "keep it simple");

rc = strfirstdiff_s(str1, LEN, str1, &ind);
if (rc != ESNODIFF) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "keep it simple");

rc = strfirstdiff_s(str1, 1, str2, &ind);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "keep it simple");

rc = strfirstdiff_s(str1, 5, str2, &ind);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

printf("\n\nDone \n");
#if 0
static void test_strfirstsame_s(void)
{
int LEN=128;
errno_t rc;

  rsize_t ind;

  char str1[LEN];
  char str2[LEN];

/*----------------------------------------*/
printf("strfirstsame_s TESTING\n");

rc = strfirstsame_s(NULL, LEN, str2, &ind);
if (rc != ENULLP) {
    printf("%s %u  Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
*/
/*----------------------------------------*/

rc = strfirstsame_s(str1, LEN, NULL, &ind);
if (rc != ENULLP) {
    printf("%s %u  Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
*/
/*----------------------------------------*/

rc = strfirstsame_s(str1, LEN, str2, NULL);
if (rc != ENULLP) {
    printf("%s %u  Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
*/
/*----------------------------------------*/

rc = strfirstsame_s(str1, 0, str2, &ind);
if (rc != ESZEROL) {
    printf("%s %u  Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
/*-------------------------------*/
rc = strfirstsame_s(str1, RSIZE_MAX_STR+1, str2, &ind);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*-------------------------------*/
str1[0] = '\0';
str2[0] = '\0';
rc = strfirstsame_s(str1, LEN, str2, &ind);
if (rc != ENOTFND) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (ind != 0) {
    printf("%s %u  Error ind=%d rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);
}
/*-------------------------------*/
strcpy (str1, "Keep it simple");
strcpy (str2, "keep it simple");
rc = strfirstsame_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (ind != 1) {
    printf("%s %u  Error ind=%d rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);
}
printf("%s %u  ind=%d   rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);
/*-------------------------------*/
copy (str1, "KEEP it simple");
copy (str2, "keep it simple");
rc = strfirstsame_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (ind != 0) {
    printf("%s %u  Error ind=%d  rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);
}
printf("%s %u  ind=%d   rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);

/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "KEEP_IT_SIMPLe");
rc = strfirstsame_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (ind != 13) {
    printf("%s %u  Error ind=%d  rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);
}
printf("%s %u  ind=%d   rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);

/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
/* same string for src and dest */
rc = strfirstsame_s(str1, LEN, str1, &ind);
if (rc != EOK) {
    printf("%s %u  Error ind=%d  rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);
}
/*--------------------------------------------------*/
strcpy (str1, "KEEP it simple");
strcpy (str2, "keep it simple");
strcpy (str1, "KEEP it simple");
strcpy (str2, "keep it simple");
rc = strfirstsame_s(str1, 1, str2, &ind);
if (rc != ESUNTERM) {
    printf("%s %u  Error ind=%d  rc=%d \n",
            __FUNCTION__, __LINE__,  ind, rc);
}

strcpy (str1, "keep it simple");
strcpy (str2, "KEEP_IT_SIMPLE");

rc = strfirstsame_s(str1, 5, str2, &ind);
if (rc != ESUNTERM) {
    printf("%s %u  Error ind=%d  rc=%d \n",
            __FUNCTION__, __LINE__,  ind, rc);
}

strcpy (str1, "keep it simple");
strcpy (str2, "KEEP_IT_SIMPLE");
rc = strfirstsame_s(str1, LEN, str2, &ind);
if (rc != ESNOTFND) {
    printf("%s %u  Error ind=%d  rc=%d \n",
            __FUNCTION__, __LINE__,  ind, rc);
}

strcpy (str1, "keep it simple");
strcpy (str2, "KEEP_IT_SIMPLE");

rc = strfirstsame_s(str1, LEN, str2, &ind);
if (rc != ESNOTFND) {
    printf("%s %u  Error ind=%d  rc=%d \n",
            __FUNCTION__, __LINE__,  ind, rc);
}

printf("\n\nDone \n");
}
#endif

static void test_strisalphanumeric_s(void)
{
    int LEN=128;
    boolean_t rc;

    uint32_t len;
    char   str[LEN];

    printf("strisalphanumeric_s TESTING\n");
len = 5;
rc = strisalphanumeric_s(NULL, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
         __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

len = 0;
rc = strisalphanumeric_s("test", len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
         __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

/* exceeds max */
len = 99999;
rc = strisalphanumeric_s("test", len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
         __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

/* empty string */
rc = strisalphanumeric_s(\"\", LEN);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
         __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

strcpy(str, "123456789");
len = 4;

/* unterminated */
rc = strisalphanumeric_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
         __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy(str, "N");
/* too short */
rc = strisalphanumeric_s(str, 1);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy(str, "N");
len = strlen(str);
rc = strisalphanumeric_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy(str, "NowISTHETimE4us");
len = strlen(str);
rc = strisalphanumeric_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy(str, "qq21ego");
len = strlen(str);
rc = strisalphanumeric_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy(str, "1234");
str[2] = 132; /* special char */
len = strlen(str);
/* special char embedded */
rc = strisalphanumeric_s(str, len);
if (rc != FALSE) {
printf("%s %u Error rc=%u \n",
__FUNCTION__, __LINE__, rc );
}
/*--------------------------------------------------*/
strcpy(str, "!@#$%^&*(){}[]:;\"'?/.>,<");
len = strlen(str);
rc = strisalphanumeric_s(str, len);
if (rc != FALSE) {
printf("%s %u Error rc=%u \n",
__FUNCTION__, __LINE__, rc );
}
/*--------------------------------------------------*/
printf("\n\nDone \n");
}

static void test_strisascii_s(void)
{
int LEN=128;
boolean_t rc;
uint32_t len;
char str[LEN];
/*--------------------------------------------------*/
printf("strisascii_s TESTING\n");
len = 5;
rc = strisascii_s(NULL, len);
if (rc != FALSE) {
printf("%s %u Error rc=%u \n",
__FUNCTION__, __LINE__, rc );
}
/*--------------------------------------------------*/
len = 0;
rc = strisascii_s("test", len);

Open Source Used In IOS XR Software 7.5.2 14182


if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__,  rc);
}
/*--------------------------------------------------*/

len = 99999;
rc = strisascii_s("test", len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__,  rc);
}
/*--------------------------------------------------*/

/* empty string */
rc = strisascii_s("", 2);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__,  rc);
}
/*--------------------------------------------------*/

strcpy (str, "ABCDEFGHIJK");
len = 5;
/* unterminated */
rc = strisascii_s(str, 2);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__,  rc);
}
/*--------------------------------------------------*/

strcpy (str, "N");
len = strlen(str);
/* len too short */
rc = strisascii_s(str, 1);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__,  rc);
}
/*--------------------------------------------------*/
strcpy (str, "N");
len = strlen(str);

rc = strisascii_s (str, 2);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy (str, "NowlSTHETimE");
len = strlen(str);
rc = strisascii_s (str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy (str, "qq2lego");
len = strlen(str);
rc = strisascii_s (str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy (str, "1234");
str[2] = 132; /* special char */
len = strlen(str);

/* special char embedded */
rc = strisascii_s (str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/

printf("\n\nDone \n");
static void test_strisdigit_s(void)
{
    int LEN=128;
    boolean_t rc;

    uint32_t len;
    char str[LEN];

    /*---------------------------------------------*/
    printf("strisdigit_s TESTING\n");

    len = 5;
    rc = strisdigit_s(NULL, len);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
    }

    /*---------------------------------------------*/
    len = 0;
    rc = strisdigit_s("1234", len);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
    }

    /*---------------------------------------------*/
    len = 99999;
    rc = strisdigit_s("1234", len);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
    }

    /*---------------------------------------------*/
    len = 9;
    rc = strisdigit_s("", len);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
    }
}
strcpy(str, "123456789");
len = 4;

/* unterminated */
rc = strisdigit_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__,  rc);
}

strcpy(str, "1");
len = strlen(str);
rc = strisdigit_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__,  rc);
}

strcpy(str, "12");
len = strlen(str);
rc = strisdigit_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__,  rc);
}

strcpy(str, "1abcd");
len = strlen(str);
rc = strisdigit_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__,  rc);
}

strcpy(str, "1abcd");
len = strlen(str);
rc = strisdigit_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__,  rc);
}

printf("\n\nDone \n");
static void test_strishex_s(void)
{
    int LEN=128;

    boolean_t rc;

    uint32_t len;
    char   str[LEN];

    /*-----------------------------------------------*/
    printf("strishex_s TESTING\n");

    len = 5;
    rc = strishex_s(NULL, len);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc);
    }

    /*-----------------------------------------------*/
    str[0] = '\0';
    rc = strishex_s(str, 5);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc);
    }

    /*-----------------------------------------------*/
    len = 0;
    rc = strishex_s("1234", len);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc);
    }

    /*-----------------------------------------------*/
    len = 99999;
    rc = strishex_s("1234", len);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc);
    }


len = 9;
rc = strishex_s("", len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

strcpy (str, "123456789");
len = 6;

/* unterminated */
rc = strishex_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

strcpy (str, "1");
len = strlen(str);
rc = strishex_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

strcpy (str, "12");
len = strlen(str);
rc = strishex_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

strcpy (str, "1Af");
len = strlen(str);
static void test_strislowercase_s(void)
{
    int LEN=128;

    boolean_t rc;

    uint32_t len;
    char   str[LEN];
/*------------------------------*/
printf("strislowercase_s TESTING\n");

len = 5;
rc = strislowercase_s(NULL, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",  
          __FUNCTION__, __LINE__, rc );
}

/*--------------------------------------------------*/

len = 99999;
rc = strislowercase_s("test", len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",  
          __FUNCTION__, __LINE__, rc );
}

/*--------------------------------------------------*/

len = 0;
rc = strislowercase_s("test", len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",  
          __FUNCTION__, __LINE__, rc );
}

/*--------------------------------------------------*/

str[0] = '\0';
rc = strislowercase_s(str, 5);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",  
          __FUNCTION__, __LINE__, rc );
}

/*--------------------------------------------------*/

strcpy (str, "qqweqeqeqeq");
len = 3;
rc = strislowercase_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",  
          __FUNCTION__, __LINE__, rc );
}
strcpy (str, "qqweqeqeqeq");
len = strlen(str);

rc = strislowercase_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

strcpy (str, "qqWe go");
len = strlen(str);

rc = strislowercase_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

strcpy (str, "1234");
len = strlen(str);

rc = strislowercase_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

printf("\n\nDone\n");
}

static void test_strismixed_s(void)
{
    int LEN=128;

    boolean_t rc;
    rsize_t len;
    char    str[LEN];
/*------------------------------*/
printf("strismixed_s TESTING\n");

len = 5;
rc = strismixedcase_s(NULL, len);
if (rc != FALSE) {
    printf("%s %u Error rc=%u \n", 
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
len = 0;
rc = strismixedcase_s("test", len);
if (rc != FALSE) {
    printf("%s %u Error rc=%u \n", 
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
len = RSIZE_MAX_STR+1;
rc = strismixedcase_s("test", len);
if (rc != FALSE) {
    printf("%s %u Error rc=%u \n", 
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
len = 9;
rc = strismixedcase_s("", len);
if (rc != FALSE) {
    printf("%s %u Error rc=%u \n", 
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy(str, "AaBbCcDdEeFf");
len = 5;
rc = strismixedcase_s(str, len);
if (rc != FALSE) {
    printf("%s %u Error rc=%u \n", 
           __FUNCTION__, __LINE__, rc);
}
strcpy(str, "N");
len = strlen(str);
rc = strismixedcase_s(str, len);
if (rc != TRUE) {
    printf("%s %u Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

strcpy(str, "NowISTHETime");
len = strlen(str);
rc = strismixedcase_s(str, len);
if (rc != TRUE) {
    printf("%s %u Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

strcpy(str, "qq21ego");
len = strlen(str);
rc = strismixedcase_s(str, len);
if (rc != FALSE) {
    printf("%s %u Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

strcpy(str, "1234");
len = strlen(str);
rc = strismixedcase_s(str, len);
if (rc != FALSE) {
    printf("%s %u Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

printf("\n\nDone \n");
}
static void test_strispassword_s(void)
{
    int LEN=24;
    boolean_t rc;

    uint32_t len;
    char str[LEN];

    /*-------------------------------*/
    printf("strispassword_s TESTING\n");
    rc = strispassword_s(NULL, LEN);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__,  rc);
    }
    /*-------------------------------*/
    rc = strispassword_s("", LEN);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__,  rc);
    }
    /*-------------------------------*/
    rc = strispassword_s("Test4You&", 0);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__,  rc);
    }
    /*-------------------------------*/
    rc = strispassword_s("Test4You&", 9);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__,  rc);
    }
    /*-------------------------------*/
    rc = strispassword_s("", 9);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__,  rc);
    }
strcpy (str, "Test4You*123");
len = 8;

rc = strispassword_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

strcpy (str, "Test4You*");
len = strlen(str);

rc = strispassword_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

strcpy (str, "Test4You*Test4You*Test4You*");
len = strlen(str);

rc = strispassword_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

strcpy (str, "Eest!22/");
len = strlen(str);

rc = strispassword_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

strcpy (str, "Eest!22/");
len = strlen(str);

rc = strispassword_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}
strcpy (str, "pa$$W0rD");
len = strlen(str);

rc = strispassword_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy (str, "Test");
len = strlen(str);

rc = strispassword_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/

printf("Done ");
}

static void test_strisuppercase_s(void)
{
    int LEN=128;
    boolean_t rc;

    uint32_t len;
    char   str[LEN];

    /*-----------------------------------------------*/
    printf("strisuppercase TESTING\n");

    len = 5;
    rc = strisuppercase_s(NULL, len);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
    }
    /*-----------------------------------------------*/

    len = 99999;
    rc = strisuppercase_s("test", len);

    /*-----------------------------------------------*/

if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n", 
            __FUNCTION__, __LINE__,  rc );
}

/*--------------------------------------------------*/

len = 0;
rc = strisuppercase_s("test", len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n", 
            __FUNCTION__, __LINE__,  rc );
}
/*--------------------------------------------------*/

str[0] = '\0';
rc = strisuppercase_s(str, 5);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n", 
            __FUNCTION__, __LINE__,  rc );
}
/*--------------------------------------------------*/

strcpy (str, "ABCDEFGHIGHIJ");
len = 7;
rc = strisuppercase_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n", 
            __FUNCTION__, __LINE__,  rc );
}
/*--------------------------------------------------*/

strcpy (str, "ABCDEFGHIGHIJ");
len = strlen(str);
rc = strisuppercase_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n", 
            __FUNCTION__, __LINE__,  rc );
}
/*--------------------------------------------------*/

strcpy (str, "qqWe go");
len = strlen(str);

rc = strisuppercase_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc );
}

/*--------------------------------------------------*/
strcpy (str, "1234");
len = strlen(str);

rc = strisuppercase_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc );
}

/*--------------------------------------------------*/
strcpy (str, "!@#$%^&*()" );
len = strlen(str);

rc = strisuppercase_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc );
}

/*--------------------------------------------------*/

printf("\n\nDone ");
}

static void test_strlastchar_s(void)
{
    int LEN=128;

erro_t rc;

    char *last;
    char str1[LEN];

    /*----------------------------------------*/
printf("strlastchar_s TESTING\n");
}
rc = strlastchar_s(NULL, LEN, 'a', &last);
if (rc != ESNULLP) {
    printf("%s %u Error str1=%p last=%p rc=%d\n", __FUNCTION__, __LINE__, str1, last, rc);
}

/*--------------------------------------------------*/
rc = strlastchar_s(str1, LEN, 'a', NULL);
if (rc != ESNULLP) {
    printf("%s %u Error str1=%p last=%p rc=%d\n", __FUNCTION__, __LINE__, str1, last, rc);
}
/*--------------------------------------------------*/
rc = strlastchar_s(str1, 0, 'a', &last);
if (rc != ESZEROL) {
    printf("%s %u Error str1=%p last=%p rc=%d\n", __FUNCTION__, __LINE__, str1, last, rc);
}
/*--------------------------------------------------*/
rc = strlastchar_s(str1, RSIZE_MAX_STR+1, 'a', &last);
if (rc != ESLEMAX) {
    printf("%s %u Error str1=%p last=%p rc=%d\n", __FUNCTION__, __LINE__, str1, last, rc);
}
/*--------------------------------------------------*/
str1[0] = '\0';
rc = strlastchar_s(str1, LEN, 'a', &last);
if (rc != ESNOTFND) {
    printf("%s %u Error str1=%p last=%p rc=%d\n", __FUNCTION__, __LINE__, str1, last, rc);
}
/*--------------------------------------------------*/
strcpy (str1, "Keep it simple");
rc = strlastchar_s(str1, 5, 'z', &last);
if (rc != ESUNTERM) {
    printf("%s %u Error str1=%p last=%p rc=%d\n", __FUNCTION__, __LINE__, str1, last, rc);
}
strcpy (str1, "Keep it simple");
rc = strlastchar_s(str1, LEN, 'z', &last);
if (rc != ESNOTFND) {
    printf("%s %u  Error str1=%p last=%p rc=%d\n",
           __FUNCTION__, __LINE__, str1, last, rc);
}

strcpy (str1, "kEep it simple");
rc = strlastchar_s(str1, LEN, 'E', &last);
if (rc != EOK) {
    printf("%s %u  Error rc=%d\n",
           __FUNCTION__, __LINE__, rc);
}
if (last != &str1[1]) {
    printf("%s %u  Error str1=%p last=%p rc=%d\n",
           __FUNCTION__, __LINE__, str1, last, rc);
}

strcpy (str1, "kEep it Simple");
rc = strlastchar_s(str1, LEN, 'S', &last);
if (rc != EOK) {
    printf("%s %u  Error rc=%d\n",
           __FUNCTION__, __LINE__, rc);
}
if (last != &str1[8]) {
    printf("%s %u  Error str1=%p last=%p rc=%d\n",
           __FUNCTION__, __LINE__, str1, last, rc);
}
static void test_strlastdiff_s(void)
{
    int LEN=128;

    errno_t rc;

    rsize_t ind;

    char   str1[LEN];
    char   str2[LEN];

    /*-----------------------------------*/
    printf("strlastdiff TESTING\n");

    rc = strlastdiff_s(NULL, LEN, str2, &ind);
    if (rc != ESNULLP) {
        printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
    }
    /*-----------------------------------*/

    rc = strlastdiff_s(str1, LEN, NULL, &ind);
    if (rc != ESNULLP) {
        printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
    }
    /*-----------------------------------*/

    rc = strlastdiff_s(str1, LEN, str2, NULL);
    if (rc != ESNULLP) {
        printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
    }
    /*-----------------------------------*/

    printf("\n\nDone \n");
}
rc = strlastdiff_s(str1, 0, str2, &ind);
if (rc != ESZEROL) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

rc = strlastdiff_s(str1, RSIZE_MAX_STR+1, str2, &ind);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

str1[0] = '\0';
str2[0] = '\0';

rc = strlastdiff_s(str1, LEN, str2, &ind);
if (rc != ESNODIFF) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (ind != 0) {
    printf("%s %u  Error ind=%d rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);
}

strcpy (str1, "Keep iT simple");
strcpy (str2, "keep it simple");

rc = strlastdiff_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (ind != 6) {
    printf("%s %u  Error ind=%d rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);
}
strcpy (str1, "kEep it simple");
strcpy (str2, "keep it simple");
rc = strlastdiff_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
if (ind != 1) {
    printf("%s %u  Error ind=%d rc=%d \n",
           __FUNCTION__, __LINE__, ind, rc);
}
strcpy (str1, "keep it siMple");
strcpy (str2, "keEp it Simple");
rc = strlastdiff_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
if (ind != 10) {
    printf("%s %u  Error ind=%d rc=%d \n",
           __FUNCTION__, __LINE__, ind, rc);
}
strcpy (str1, "keep it simple");
rc = strlastdiff_s(str1, LEN, str1, &ind);
if (rc != ESNODIFF) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
strcpy (str1, "keep it simple");
strcpy (str2, "keep it simple");

rc = strlastdiff_s(str1, 1, str2, &ind);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

strcpy (str1, "keep it simple");
strcpy (str2, "keep it simple");

rc = strlastdiff_s(str1, 5, str2, &ind);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

printf("\n\nDone \n");
}

#if 0
static void test_strlastsame_s(void)
{
    int LEN=128;
    errno_t rc;
    rsize_t ind;
    char str1[LEN];
    char str2[LEN];

    printf("strlastsame_s TESTING\n");
    rc = strlastsame_s(NULL, LEN, str2, &ind);
    if (rc != ESNULLP) {
printf("%s %u Error rc=%d \n",
    __FUNCTION__, __LINE__, rc);
}
/*---------------------------------------------*/
rc = strlastsame_s(str1, LEN, NULL, &ind);
if (rc != ESNULLP) {
    printf("%s %u Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
/*---------------------------------------------*/
rc = strlastsame_s(str1, LEN, str2, NULL);
if (rc != ESNULLP) {
    printf("%s %u Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
/*---------------------------------------------*/
rc = strlastsame_s(str1, 0, str2, &ind);
if (rc != ESZEROL) {
    printf("%s %u Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
/*---------------------------------------------*/
rc = strlastsame_s(str1, RSIZE_MAX_STR+1, str2, &ind);
if (rc != ESZEROL) {
    printf("%s %u Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
/*---------------------------------------------*/
str1[0] = '0';
str2[0] = '0';
rc = strlastsame_s(str1, LEN, str2, &ind);
if (rc != ESNOTFND) {
    printf("%s %u Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
if (ind != 0) {

printf("%s %u  Error  ind=%d rc=%d \n",
    __FUNCTION__, __LINE__, ind, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "Keep it simple");
strcpy (str2, "keep_IT_SIMPLISTIC");
rc = strlastsame_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
if (ind != 3) {
    printf("%s %u  Error ind=%d  rc=%d \n",
        __FUNCTION__, __LINE__,  ind, rc);
}
printf("%s %u  ind=%d   rc=%d \n",
    __FUNCTION__, __LINE__,  ind, rc);
/*--------------------------------------------------*/
strcpy (str1, "kEEP_IT_SIMPLE");
strcpy (str2, "keep it simplistic");
rc = strlastsame_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
if (ind != 0) {
    printf("%s %u  Error ind=%d  rc=%d \n",
        __FUNCTION__, __LINE__,  ind, rc);
}
printf("%s %u  ind=%d   rc=%d \n",
    __FUNCTION__, __LINE__,  ind, rc);
/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "keeP_IT_SIMPLe");
rc = strlastsame_s(str1, LEN, str2, &ind);
/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "keep_IT_SIMPLISTIC");
rc = strlastsame_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

if (ind != 13) {
    printf("%s %u  Error ind=%d  rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);
}

strcpy (str1, "keep it simple");

/* same string for src and dest */
rc = strlastsame_s(str1, LEN, str1, &ind);
if (rc != EOK) {
    printf("%s %u  Error ind=%d  rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);
}
    if (ind != 13) {
        printf("%s %u  Error ind=%d  rc=%d \n",
                __FUNCTION__, __LINE__, ind, rc);
    }

/*-----------------------------------------------*/

strcpy (str1, "KEEP it simple");
strcpy (str2, "keep it simple");

/* unterminated */
rc = strlastsame_s(str1, 1, str2, &ind);
if (rc != ESUNTERM) {
    printf("%s %u  Error ind=%d  rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);
}

/*-----------------------------------------------*/

strcpy (str1, "keep it simple");
strcpy (str2, "KEEP_IT_SIMPLE");

/* unterminated */
rc = strlastsame_s(str1, 5, str2, &ind);
if (rc != ESUNTERM) {
    printf("%s %u  Error ind=%d  rc=%d \n",
           __FUNCTION__, __LINE__,  ind, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "KEEP_IT_SIMPLE");

rc = strlastsame_s(str1, LEN, str2, &ind);
if (rc != ESNOTFND) {
    printf("%s %u  Error ind=%d  rc=%d \n",
           __FUNCTION__, __LINE__,  ind, rc);
}

/*--------------------------------------------------*/
printf("Done \n");
}
#endif

static void test_strljustify_s(void)
{
    int LEN=128;
    errno_t rc;
    int ind;

    uint32_t len;
    char   str[LEN];

    /*-------------------------------------------*/
    printf("strljustify_s TESTING\n");

    len = 5;
    rc = strljustify_s(NULL, len);
    if (rc != ESNULLP) {
        printf("%s %u   Error rc=%u \n", 
                __FUNCTION__, __LINE__,  rc);
    }

    /*-------------------------------------------*/
    printf("strljustify_s TESTING\n");

    len = 0;
    rc = strljustify_s("test", len);
    if (rc != ESZEROL) {
        printf("%s %u   Error rc=%u \n", 
                __FUNCTION__, __LINE__,  rc);
    }
}
len = 99999;
rc = strljustify_s("test", len);
if (rc != ESLEMAX) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

/*---------------------------------------------------*/

/* empty string */
rc = strljustify_s("", 12);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

//    if (str[0] != '\0') { // wonder why str[0] should be \0
    //        printf("%s %u   Error -%s- \n",
    //                     __FUNCTION__, __LINE__, str);
    // }

/*---------------------------------------------------*/

strzero_s(str, LEN);
strcpy (str, "ABCDEFGHIJK");
len = 2;

/*---------------------------------------------------*/

/* unterminated */
rc = strljustify_s(str, len);
if (rc != ESUNTERM) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

if (str[0] != '\0') {
    printf("%s %u   Error -%s- \n",
            __FUNCTION__, __LINE__, str);
}

/*---------------------------------------------------*/

strzero_s(str, LEN);
strcpy (str, "      ABCDEFGHIJK");
len = 5;
/* unterminated */
rc = strjustify_s(str, len);
if (rc != ESUNTERM) {
    printf("%s %u Error rc=%u \n",
            __FUNCTION__, ___LINE__,  rc);
}
if (str[0] != '0') {
    printf("%s %u Error -%s- \n",
            __FUNCTION__, ___LINE__,  str);
}
/*--------------------------------------------------*/
strzero_s(str, LEN);
strcpy (str, "A");
len = 1;
/* a one char string will be emptied - str[0]==\0 */
rc = strjustify_s(str, len);
if (rc != EOK) {
    printf("%s %u Error rc=%u \n",
            __FUNCTION__, ___LINE__,  rc);
}
if (str[0] != '0') {
    printf("%s %u Error -%s- \n",
            __FUNCTION__, ___LINE__,  str);
}
/*--------------------------------------------------*/
strzero_s(str, LEN);
strcpy (str, "ABC");
len = 2;
/* this will be unterminated */
rc = strjustify_s(str, len);
if (rc != ESUNTERM) {
    printf("%s %u Error rc=%u \n",
            __FUNCTION__, ___LINE__,  rc);
}
if (str[0] != '0') {
    printf("%s %u Error -%s- \n",
            __FUNCTION__, ___LINE__,  str);
}
strzero_s(str, LEN);
strcpy (str, "ABC");
len = 3;

/* this will be unterminated */
rc = strljustify_s(str, len);
if (rc != EOK) {
    printf("%s %u Error rc=%u \n",
            __FUNCTION__. __LINE__. rc );
}

ind = strcmp(str, "ABC");
if (ind != 0) {
    printf("%s %u Error -%s- \n",
            __FUNCTION__. __LINE__. str);
}

strzero_s(str, LEN);
strcpy(str, "   B ");
len = strlen(str);
rc = strljustify_s(str, len);
if (rc != EOK) {
    printf("%s %u Error rc=%u \n",
            __FUNCTION__. __LINE__. rc );
}

ind = strcmp(str, "B ");
if (ind != 0) {
    printf("%s %u Error -%s- ind=%d \n",
            __FUNCTION__. __LINE__. str, ind);
}

strzero_s(str, LEN);
strcpy(str, "   B ");
len = strlen(str);

rc = strljustify_s(str, len);
if (rc != EOK) {
    printf("%s %"u " Error rc=%"u "
           __FUNCTION__", __LINE__, rc);
}

ind = strcmp(str, "B ");
if (ind != 0) {
    printf("%s %"u " Error -%"s- "
           __FUNCTION__", __LINE__, str);

} 

//printf("%d --%s-- "

strzero_s(str, LEN);
strcpy(str, "   C ");
len = strlen(str);

rc = strljustify_s(str, len);
if (rc != EOK) {
    printf("%s %"u " Error rc=%"u "
           __FUNCTION__", __LINE__, rc);
}

ind = strcmp(str, "C ");
if (ind != 0) {
    printf("%s %"u " Error -%"s- "
           __FUNCTION__", __LINE__, str);

} 

//printf("%d --%s-- "

strzero_s(str, LEN);
strcpy(str, "   NowISTHETimE       ");
len = strlen(str);

rc = strljustify_s(str, len);
if (rc != EOK) {
    printf("%s %"u " Error rc=%"u "
           __FUNCTION__", __LINE__, rc);
}
ind = strcmp(str, "NowISTHETime ");
if (ind != 0) {
    printf("%s %u  Error -%s- \n",  
            __FUNCTION__, __LINE__,  str);
}

//printf("%d  --%s-- \n", __LINE__, str);

/*---------------------------------------------*/

strzero_s(str, LEN);
strcpy (str, " qq21ego ");
len = strlen(str);

rc = strljustify_s(str, len);
if (rc != EOK) {
    printf("%s %u  Error rc=%u \n",  
            __FUNCTION__, __LINE__,  rc );
}

//printf("%d  --%s-- \n", __LINE__, str);

/*---------------------------------------------*/

strzero_s(str, LEN);
strcpy (str, "   1234   ");
len = strlen(str);

rc = strljustify_s(str, len);
if (rc != EOK) {
    printf("%s %u  Error rc=%u \n",  
            __FUNCTION__, __LINE__,  rc );
}

//printf("%d  --%s-- \n", __LINE__, str);

/*---------------------------------------------*/

printf("\n\nDone ");
}

static void test_strncat_s(void)
{
    int LEN=128;
    errno_t rc;


int32_t ind;

char str1[LEN];
char str2[LEN];

/*--------------------------------------------------*/
printf("strncat_s TESTING\n");

rc = strncat_s(NULL, LEN, str2, LEN);
if (rc != ESNULLP) {
    debug_printf("%s %u   Error rc=%u \n", 
                __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
rc = strncat_s(str1, LEN, NULL, LEN);
if (rc != ESNULLP) {
    debug_printf("%s %u   Error rc=%u \n", 
                __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
rc = strncat_s(str1, 0, str2, LEN);
if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n", 
                __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
rc = strncat_s(str1, (RSIZE_MAX_STR+1), str2, LEN);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n", 
                __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaa");
strcpy(str2, "keep it simple");
rc = strncat_s(str1, 1, str2, LEN);
if (rc != ESUNTERM) {
    debug_printf("%s %u   Error rc=%u \n", 
                __FUNCTION__, __LINE__, rc);
}
```c
if (str1[0] != '\0') {
    debug_printf("%s %u Expected null \n", __FUNCTION__, __LINE__);
}

/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaa");
strcpy(str2, "keep it simple");
rc = strncat_s(str1, 2, str2, LEN);
if (rc != ESUNTERM) {
    debug_printf("%s %u Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
if (str1[0] != '\0') {
    debug_printf("%s %u Expected null \n", __FUNCTION__, __LINE__);
}

/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaa");
strcpy(str2, "keep it simple");
rc = strncat_s(str1, 50, str2, LEN);
if (rc != EOK) {
    debug_printf("%s %u Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
ind = strcmp(str1, "aaaaaaaaaakeep it simple");
if (ind != 0) {
    debug_printf("%s %u Error -%s- \n", __FUNCTION__, __LINE__, str1);
}

/*--------------------------------------------------*/
/* TR example */
strcpy(str1, "good");
strcpy(str2, "bye");
rc = strncat_s(str1, 100, str2, 1000);
```
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

ind = strcmp(str1, "goodbye");
if (ind != 0) {
    debug_printf("%s %u   Error -%s- \n", __FUNCTION__, __LINE__, str1);
}

/*--------------------------------------------------*/
/* TR example */
strcpy(str1, "hello");

rc = strncat_s(str1, 6, ",", 1);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

ind = strcmp(str1, "hello");
if (ind != 0) {
    debug_printf("%s %u   Error -%s-\n", __FUNCTION__, __LINE__, str1);
}

/*--------------------------------------------------*/
/* TR example */
strcpy(str1, "hello");

rc = strncat_s(str1, 6, "X", 2);
if (rc != ESNOSPC) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

if (str1[0] != '\0') {
    debug_printf("%s %u Expected null \n", __FUNCTION__, __LINE__);
}

/*--------------------------------------------------*/
/* TR example */
strcpy(str1, "abc");
rc = strcat_s(str1, 7, "defghijklmn", 3);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}

ind = strcmp(str1, "abcdef");
if (ind != 0) {
    debug_printf("%s %u   Error -%s- \n",
                __FUNCTION__, __LINE__, str1);
}

/*--------------------------------------------------*/
}

static void test_strncpy_s(void)
{
int LEN=128;

erno_t rc;
ssize_t nlen;

int32_t ind;
char  str1[LEN];
char  str2[LEN];
char  dest[LEN];

printf("strncpy_s TESTING\n");

/*--------------------------------------------------*/
nlen = 5;
rc = strncpy_s(NULL, LEN, str2, nlen);
if (rc != ESNULLP) {
    debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
nlen = 5;
rc = strncpy_s(str1, 5, NULL, nlen);
if (rc != ESNULLP) {
    debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa"");
nlen = 5;
rc = strncpy_s(str1, 5, NULL, nlen);
if (rc != ESNULLP) {
    debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}
__FUNCTION__, __LINE__, rc);
*/

for (i=0; i<5; i++) {
    if (str1[i] != '0') {
        debug_printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
    }
}
*/
/*-----------------------------------------------*/

nlen = 5;
rc = strncpy_s(str1, 0, str2, nlen);
if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}
*/-----------------------------------------------*/

/*-----------------------------------------------*/

rc = strncpy_s(str1, (RSIZE_MAX_STR+1), str2, nlen);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}
/*-----------------------------------------------*/

strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
str2[0] = '0';

rc = strncpy_s(str1, 5, str2, 0);
if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}
*/
/*-----------------------------------------------*/

for (i=0; i<5; i++) {
    if (str1[i] != '0') {
        debug_printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
    }
}
*/
/*-----------------------------------------------*/
#if 1
    strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
    strcpy(str2, "bbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb");

    rc = strncpy_s(str1, 5, str2, (RSIZE_MAX_STR+1));
    if (rc != ESLEMAX) {
        debug_printf("%s %u   Error rc=%u \n", 
            __FUNCTION__, __LINE__, rc );
    }
#endif

/*--------------------------------------------------*/
    strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
    str2[0] = '0';
    nlen = 5;

    rc = strncpy_s(&str1[0], LEN/2, &str2[0], nlen);
    if (rc != EOK) {
        debug_printf("%s %u   Error rc=%u \n", 
            __FUNCTION__, __LINE__, rc );
    } /*
    for (i=0; i<LEN/2; i++) {
        if (str1[i] != '0') {
            debug_printf("%s %u   Error rc=%u \n", 
                __FUNCTION__, __LINE__, rc );
        }
    } */
    /*------------------------------------------------------*/
    strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
    nlen = 5;

    /* test overlap */
    rc = strncpy_s(str1, LEN, str1, nlen);
    if (rc != ESOVRLP) {
        debug_printf("%s %u   Error rc=%u \n", 
            __FUNCTION__, __LINE__, rc );
    } /*
    for (i=0; i<LEN; i++) {
        if (str1[i] != '0') {
            debug_printf("%s %u   Error rc=%u \n", 
                __FUNCTION__, __LINE__, rc );
        }
    } */
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
nlen = 18;
rc = strncpy_s(&str1[0], LEN, &str1[5], nlen);
if (rc != ESOVRLP) {
    debug_printf("%s %u   Error rc=%u \n", 
                   __FUNCTION__, __LINE__, rc);
}
/*
for (i=0; i<LEN; i++) {
    if (str1[i] != \0) { 
        debug_printf("%s %u   Error rc=%u \n", 
                       __FUNCTION__, __LINE__, rc);
    }
}
*/
/*--------------------------------------------------*/
strcpy(str1, "keep it simple");
str2[0] = \0;
nlen = 10;
rc = strncpy_s(str1, LEN, str2, nlen);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", 
                   __FUNCTION__, __LINE__, rc);
}
/*
for (i=0; i<LEN; i++) {
    if (str1[i] != \0) { 
        debug_printf("%s %u   Error rc=%u \n", 
                       __FUNCTION__, __LINE__, rc);
    }
}
*/
/*--------------------------------------------------*/
str1[0] = \0;
strcpy(str2, "keep it simple");
nlen = 20;
rc = strncpy_s(str1, LEN, str2, nlen);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", 
                   __FUNCTION__, __LINE__, rc);
}
/* be sure the results are the same as strcmp */
ind = strcmp(str1, str2);
if (ind != 0) {
    debug_printf("%s %u -%s-  Error rc=%u \\
",  
    __FUNCTION__, __LINE__,  str1, rc );
}

/*--------------------------------------------------*/
strcpy(str1, "qqweqeqeqeq");
strcpy(str2, "keep it simple");
nlen = 32;
rc = strncpy_s(str1, LEN, str2, nlen);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \\
",  
    __FUNCTION__, __LINE__,  rc );
}

/* be sure the results are the same as strcmp */
ind = strcmp(str1, str2);
if (ind != 0) {
    debug_printf("%s %u -%s-  Error rc=%u \\
",  
    __FUNCTION__, __LINE__,  str1, rc );
}

/*--------------------------------------------------*/
strcpy(str1, "qqweqeqeqeq");
strcpy(str2, "keep it simple");
rc = strncpy_s(str1, 1, str2, nlen);
if (rc != ESNOSPC) {
    debug_printf("%s %u   Error rc=%u \\
",  
    __FUNCTION__, __LINE__,  rc );
}
if (*str1 != '\0') {
    debug_printf("%s %u -%s-  Error rc=%u \\
",  
    __FUNCTION__, __LINE__,  str1, rc );
}

/*--------------------------------------------------*/
strcpy(str1, "qqweqeqeqeq");
strcpy(str2, "keep it simple");

rc = strncpy_s(str1, 2, str2, nlen);
if (rc != ESNOSPC) {
    debug_printf("%s %u   Error rc=%u \n",
                  __FUNCTION__, __LINE__, rc);
}

if (*str1 != '\0') {
    debug_printf("%s %u -%s-  Error rc=%u \n",
                  __FUNCTION__, __LINE__, str1, rc);
}

/*--------------------------------------------------*/
/* TR example */
strcpy(dest, "                            ");
strcpy(str1, "hello");

rc = strncpy_s(dest, 6, str1, 100);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                  __FUNCTION__, __LINE__, rc);
}

/* be sure the results are the same as strcmp */
ind = strcmp(dest, str1);
if (ind != 0) {
    debug_printf("%s %u -%s-  Error rc=%u \n",
                  __FUNCTION__, __LINE__, str1, rc);
}

/*--------------------------------------------------*/
/* TR example */
strcpy(dest, "                            ");
strcpy(str2, "goodbye");
rc = strncpy_s(dest, 5, str2, 7);
if (rc != ESNOSPC) {
    debug_printf("%s %u   Error rc=%u \n",
                  __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
/* TR example */
strcpy(dest, "                            ");
strcpy(str2, "goodbye");
rc = strncpy_s(dest, 5, str2, 7);
if (rc != ESNOSPC) {
    debug_printf("%s %u   Error rc=%u \n",
                  __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
/* TR example */
strcpy(dest,"
" );
strcpy(str2,"goodbye");

rc = strncpy_s(dest, 5, str2, 4);
if (rc != EOK) {
    debug_printf("%s %u  Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
/* be sure the results are the same as strcmp */
ind = strcmp(dest,"good");
if (ind != 0) {
    debug_printf("%s %u -%s-  Error rc=%u \n", __FUNCTION__, __LINE__, str1, rc);
}
/*--------------------------------------------------*/
strcpy(dest,"
" );
strcpy(str2,"good");
/* strnlen("good") < 5 */
rc = strncpy_s(dest, 5, str2, 8);
if (rc != EOK) {
    debug_printf("%s %u  Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
/* be sure the results are the same as strcmp */
ind = strcmp(dest,"good");
if (ind != 0) {
    debug_printf("%s %u -%s-  Error rc=%u \n", __FUNCTION__, __LINE__, str1, rc);
}
/*--------------------------------------------------*/
strcpy(str1,"qq12345weqeqeqeq");
strcpy(str2,"it");
nlen = 10;
rc = strncpy_s(str1, 10, str2, nlen);
if (rc != EOK) {
    debug_printf("%s %u  Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
/* be sure the results are the same as strcmp */
ind = strcmp(str1, str2);
if (ind != 0) {
    debug_printf("%s %u -%s- Error rc=%u \n", __FUNCTION__, __LINE__, str1, rc);
}

// for (i=0; i<10; i++) {
//    printf("str1[%i] = %d \n", i, str1[i]);
// }

/*--------------------------------------------------*/
printf("\n\nDone \n");
}

static void test_strlen_s(void)
{

    rsize_t len;
    rsize_t std_len;
    rsize_t max_len;

    printf("strlen_s TESTING\n");
    /*--------------------------------------*/

    max_len = 3;
    len = strlen_s(NULL, max_len);
    if (len != 0) {
        printf("%s %u   Len=%u \n", __FUNCTION__, __LINE__, len);
    }
    /*--------------------------------------*/

    max_len = 0;
    len = strlen_s("test", max_len);
    if (len != 0) {
        printf("%s %u   Len=%u \n", __FUNCTION__, __LINE__, len);
    }
    /*--------------------------------------*/

    max_len = RSIZE_MAX_STR+1;
    len = strlen_s("test", max_len);
    if (len != 0) {
        printf("%s %u   Len=%u \n", __FUNCTION__, __LINE__, len);
    }
__FUNCTION__, __LINE__, len);
}

/*--------------------------------------------------*/
std_len = strlen(" ");
max_len = RSIZE_MAX_STR;

len = strlen_s ("", max_len);

if (std_len != len) {
    printf("%s %u   std_len=%u  len=%u \n",
            __FUNCTION__, __LINE__, std_len, len);
}

/*--------------------------------------------------*/
std_len = strlen("t");
max_len = RSIZE_MAX_STR;

len = strlen_s ("t", max_len);

if (std_len != len) {
    printf("%s %u   std_len=%u  len=%u \n",
            __FUNCTION__, __LINE__, std_len, len);
}

/*--------------------------------------------------*/
std_len = strlen("to");
max_len = RSIZE_MAX_STR;

len = strlen_s ("to", max_len);

if (std_len != len) {
    printf("%s %u   std_len=%u  len=%u \n",
            __FUNCTION__, __LINE__, std_len, len);
}

/*--------------------------------------------------*/
std_len = strlen("testing");
max_len = RSIZE_MAX_STR;

len = strlen_s ("testing", max_len);

if (std_len != len) {
    printf("%s %u   std_len=%u  len=%u \n",
            __FUNCTION__, __LINE__, std_len, len);
__FUNCTION__, __LINE__, std_len, len);
}

/*----------------------------*/
max_len = 1;
len = strnlen_s ("testing", max_len);

if (len != max_len) {
    printf("%s %u   len=%u \n",
            __FUNCTION__, __LINE__, len);
}

/*--------------------------------------------------*/
max_len = 2;
len = strnlen_s ("testing", max_len);

if (len != max_len) {
    printf("%s %u   len=%u \n",
            __FUNCTION__, __LINE__, len);
}

/*--------------------------------------------------*/
max_len = 3;
len = strnlen_s ("testing", max_len);

if (len != max_len) {
    printf("%s %u   len=%u \n",
            __FUNCTION__, __LINE__, len);
}

/*--------------------------------------------------*/
printf("\n\nDone \n");
}

static void test_strpbrk_s(void)
{
    int LEN=128;

    errno_t rc;

    char *first;
    char *std_first;
printf("strpbrk_s TESTING\n");
rc = strpbrk_s(str1, LEN, str2, LEN, NULL);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
rc = strpbrk_s(NULL, LEN, str2, LEN, &first);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
rc = strpbrk_s(str1, LEN, NULL, LEN, &first);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
rc = strpbrk_s(str1, LEN, str2, LEN, NULL);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
rc = strpbrk_s(str1, 0, str2, LEN, &first);
if (rc != ESZEROL) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
rc = strpbrk_s(str1, LEN, str2, 0, &first);
if (rc != ESZEROL) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
rc = strpbrk_s(str1, RSIZE_MAX_STR+1, str2, LEN, &first);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
rc = strpbrk_s(str1, RSIZE_MAX_STR, str2, RSIZE_MAX_STR+1, &first);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
str1[0] = '\0';
str2[0] = '\0';

/* not to be found */
rc = strpbrk_s(str1, LEN, str2, LEN, &first);
if (rc != ESNOTFND) {
    printf("%s %u  Error first=%p  rc=%d \n",
           __FUNCTION__, __LINE__, first, rc);
}
if (first != 0) {
    printf("%s %u  Error first=%p  rc=%d \n",
           __FUNCTION__, __LINE__, first, rc);
}
std_first = strpbrk(str1, str2);
if (first != std_first) {
    printf("%s %u  first=%p  std_first=%p  rc=%d \n",
           __FUNCTION__, __LINE__, first, std_first, rc);
}
/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "1234");
// this will be unterminated */
rc = strpbrk_s(str1, 2, str2, LEN, &first);
if (rc != ESUNTERM) {
    printf("%s %u  Error first=%p rc=%d \n",
            __FUNCTION__, __LINE__, first, rc);
}

std_first = strpbrk(str1, str2);
if (first != std_first) {
    printf("%s %u  first=%p  std_first=%p  rc=%d \n",
            __FUNCTION__, __LINE__,  first, std_first, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "ke");

/* this will be OK as the "ke" chars will be found w/in the 2 chars */
rc = strpbrk_s(str1, 2, str2, LEN, &first);
if (rc != EOK) {
    printf("%s %u  Error first=%p rc=%d \n",
            __FUNCTION__, __LINE__, first, rc);
}

std_first = strpbrk(str1, str2);
if (first != std_first) {
    printf("%s %u  first=%p  std_first=%p  rc=%d \n",
            __FUNCTION__, __LINE__,  first, std_first, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "123456");
/* src will be unterminated */
rc = strpbrk_s(str1, LEN, str2, 2, &first);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (first != 0) {
    printf("%s %u  Error first=%p  rc=%d \n",
            __FUNCTION__, __LINE__, first, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "123456");

/* src will be unterminated */
rc = strpbrk_s(str1, LEN, str2, 2, &first);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (first != 0) {
    printf("%s %u  Error first=%p  rc=%d \n",
            __FUNCTION__, __LINE__, first, rc);
}
strcpy (str1, "keep it simple");
strcpy (str2, "\"\");

rc = strpbrk_s(str1, LEN, str2, 1, &first);
if (rc != ESNOTFND) {
    printf("%s %u Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

std_first = strpbrk(str1, str2);
if (first != std_first) {
    printf("%s %u first=%p std_first=%p rc=%d \n",
           __FUNCTION__, __LINE__, first, std_first, rc);
}

strcpy (str1, "keep it simple");
strcpy (str2, "k");

rc = strpbrk_s(str1, LEN, str2, 1, &first);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

std_first = strpbrk(str1, str2);
if (first != std_first) {
    printf("%s %u first=%p std_first=%p rc=%d \n",
           __FUNCTION__, __LINE__, first, std_first, rc);
}

strcpy (str1, "keep it simple");
strcpy (str2, "ke");

rc = strpbrk_s(str1, LEN, str2, 2, &first);
if (rc != EOK) {
printf("%s %u  first=%p  std_first=%p  rc=%d \n",  
   __FUNCTION__, __LINE__,  first, std_first, rc);
}

std_first = strpbrk(str1, str2);
if (first != std_first)  
   printf("%s %u  first=%p  std_first=%p  rc=%d \n",  
      __FUNCTION__, __LINE__,  first, std_first, rc);
}

//    printf("%s %u  first=%p  std_first=%p  rc=%d \n",  
//                     __FUNCTION__, __LINE__,  first, std_first, rc);
/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "hip");

rc = strpbrk_s(str1, LEN, str2, LEN, &first);
if (rc != EOK)  
   printf("%s %u  Error rc=%d \n",  
      __FUNCTION__, __LINE__, rc);
}

std_first = strpbrk(str1, str2);
if (first != std_first)  
   printf("%s %u  first=%p  std_first=%p  rc=%d \n",  
      __FUNCTION__, __LINE__,  first, std_first, rc);
}

//    printf("%s %u  first=%p  std_first=%p  rc=%d \n",  
//                     __FUNCTION__, __LINE__,  first, std_first, rc);
/*--------------------------------------------------*/
strcpy (str1, "keep it simply");
strcpy (str2, "123y");

rc = strpbrk_s(str1, LEN, str2, LEN, &first);
if (rc != EOK)  
   printf("%s %u  Error rc=%d \n",  
      __FUNCTION__, __LINE__, rc);
}

std_first = strpbrk(str1, str2);
if (first != std_first)  
   printf("%s %u  first=%p  std_first=%p  rc=%d \n",  
      __FUNCTION__, __LINE__,  first, std_first, rc);
}
static void test_strprefix_s(void)
{
    int LEN=128;

    errno_t rc;

    rsize_t len;

    char str1[LEN];
    char str2[LEN];

    printf("strprefix_s TESTING\n");
    /*----------------------------------------------*/

    rc = strprefix_s(NULL, LEN, str2);
    if (rc != ENULLP) {
        printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
    }
    /*----------------------------------------------*/

    rc = strprefix_s(str1, LEN, NULL);
    if (rc != ENULLP) {
        printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
    }
    /*----------------------------------------------*/

    rc = strprefix_s(str1, 0, str2);
    if (rc != ESZEROL) {
        printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
    }
}
rc = strprefix_s(str1, RSIZE_MAX_STR+1, str2);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

str1[0] = '\0';
str2[0] = '\0';
rc = strprefix_s(str1, LEN, str2);
if (rc != ESNOTFND) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

strcpy(str1, "keep it simple");
strcpy(str2, "keep");
rc = strprefix_s(str1, 55, str2);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

strcpy(str1, "keep it simple");
strcpy(str2, "kerp");
rc = strprefix_s(str1, 55, str2);
if (rc != ESNOTFND) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

strcpy(str1, "ke");
strcpy(str2, "kerp");
rc = strprefix_s(str1, 55, str2);
if (rc != ESNOTFND) {
printf("%s %u  Error rc=%d 
", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

strcpy(str1, "keep it simple");
strcpy(str2, "keeppp");

rc = strprefix_s(str1, 4, str2);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d 
", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

strcpy(str1, "keep it simple");
strcpy(str2, "keeeep");

rc = strprefix_s(str1, 4, str2);
if (rc != ESNOTFND) {
    printf("%s %u  Error rc=%d 
", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

strcpy(str1, "keep it simple");

rc = strprefix_s(str1, 4, str2);
if (rc != ESNOTFND) {
    printf("%s %u  Error rc=%d 
", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

strcpy(str1, "keep it simple");

rc = strprefix_s(str1, 4, "");
if (rc != ESNOTFND) {
    printf("%s %u  Error rc=%d 
", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

strcpy(str1, "keep it simple");
strcpy(str2, "keep it sipmle and very long");

len = strlen(str1);

rc = strprefix_s(str1, len, str2);
if (rc != ESNOTFND) {
    printf("%s %u  Error rc=%d 
", __FUNCTION__, __LINE__, rc);
}
strcpy(str1, "keep it simple");
strcpy(str2, "keep it simple");

len = strlen(str1);

rc = strprefix_s(str1, len, str2);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

/*----------------------------------------*/

printf("\n\nDone \n");
}

static void test_strremovews_s(void)
{
    int LEN=128;

    errno_t rc;
    int ind;

    uint32_t len;
    char   str[LEN];

    /*----------------------------------------*/
    printf("strremovews_s TESTING\n");

    len = 5;
    rc = strremovews_s(NULL, len);
    if (rc != ENULLP) {
        printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
    }
    /*----------------------------------------*/

    len = 0;
    strcpy(str, "test");
    rc = strremovews_s(str, len);
    if (rc != ESZEROL) {
        printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
    }
    /*----------------------------------------*/

len = 99;
strcpy(str, "test");
rc = stremovesws_s(str, len);
if (rc != ESLEMAX) {
    printf("%s %u Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc);
}

/*--------------------------------------------------*/
/* empty string */
strcpy(str, ");
rc = stremovesws_s(str, 12);
if (rc != EOK) {
    printf("%s %u Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc);
}
/*
if (str[0] != 'O') { \ strl should not be null here
    printf("%s %u Error -%s- \n",
            __FUNCTION__, __LINE__, str);
}
*/
/*--------------------------------------------------*/
strzero_s(str, LEN);
strcpy (str, "ABCDEFGHIJK");
len = 2;

/* unterminated */
rc = stremovesws_s(str, len);
if (rc != ESUNTERM) {
    printf("%s %u Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc);
}
if (str[0] != 'O') {
    printf("%s %u Error -%s- \n",
            __FUNCTION__, __LINE__, str);
}
/*--------------------------------------------------*/
strzero_s(str, LEN);
strcpy (str, "      ABCDEFGHIJK");
len = 5;

/* unterminated */
rc = strremovews_s(str, len);
if (rc != ESUNTERM) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__,  rc );
}
if (str[0] != '\0') {
    printf("%s %u   Error -%s- \n",
           __FUNCTION__, __LINE__,  str);
}
/*--------------------------------------------------*/
strzero_s(str, LEN);
strcpy (str, "A");
len = 1;

/* a one char string will be emptied - str[0]==\0 */
rc = strremovews_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__,  rc );
}
if (str[0] != '\0') {
    printf("%s %u   Error -%s- \n",
           __FUNCTION__, __LINE__,  str);
}
/*--------------------------------------------------*/
strzero_s(str, LEN);
strcpy (str, "ABC");
len = 2;

/* this will be unterminated */
rc = strremovews_s(str, len);
if (rc != ESUNTERM) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__,  rc );
}
if (str[0] != '\0') {
printf("%s %u   Error -%s- \n", 
FUNCTION__, __LINE__, str);
}

/*------------------------------------------------__*/
strzero_s(str, LEN);
strcpy(str, " B");
len = strlen(str);

rc = stremovews_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n", 
FUNCTION__, __LINE__, rc );
}

ind = strcmp(str, "B");
if (ind != 0) {
    printf("%s %u   Error -%s- \n", 
FUNCTION__, __LINE__, str);
}

/*------------------------------------------------__*/
strzero_s(str, LEN);
strcpy(str, " C ");
len = strlen(str);

rc = stremovews_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n", 
FUNCTION__, __LINE__, rc );
}

ind = strcmp(str, "C");
if (ind != 0) {
    printf("%s %u   Error -%s- \n", 
FUNCTION__, __LINE__, str);
}

/*------------------------------------------------__*/
strzero_s(str, LEN);
strcpy(str, " NowISTHETime       ");
len = strlen(str);

rc = stremovews_s(str, len);
if (rc != EOK) {

printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

// printf(" --%s-- \n", str);

/*--------------------------------------------------*/
strzero_s(str, LEN);
strcpy (str, " qq21ego ");
len = strlen(str);
rc = stremovews_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
// printf(" --%s-- \n", str);

/*--------------------------------------------------*/
strzero_s(str, LEN);
strcpy (str, "   1234   ");
len = strlen(str);
rc = stremovews_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
// printf(" --%s-- \n", str);

/*--------------------------------------------------*/

printf("\n\nDone\n");
}

static void test_strspn_s(void)
{
    int LEN=128;

    errno_t rc;

    rsize_t count;
    int32_t std_count;
char str1[LEN];
char str2[LEN];

/*----------------------------------------*/
printf("test_strspn_s TESTING\n");

rc = strspn_s(NULL, LEN, str2, LEN, &count);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

/*----------------------------------------*/

rc = strspn_s(str1, LEN, NULL, LEN, &count);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

/*----------------------------------------*/

rc = strspn_s(str1, str2, LEN, NULL);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

/*----------------------------------------*/

rc = strspn_s(str1, 0, str2, LEN, &count);
if (rc != ESZEROL) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

/*----------------------------------------*/

rc = strspn_s(str1, LEN, str2, 0, &count);
if (rc != ESZEROL) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

/*----------------------------------------*/

rc = strspn_s(str1, RSIZE_MAX_STR+1, str2, LEN, &count);
if (rc != ESLEMAX) {


```c
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
    }
*/
*/-----------------------------------------------*/

    rc = strspn_s(str1, RSIZE_MAX_STR, str2, RSIZE_MAX_STR+1, &count);
    if (rc != ESLEMAX) {
        printf("%s %u  Error rc=%d \n",
               __FUNCTION__, __LINE__, rc);
    }
*/-----------------------------------------------*/

    str1[0] = '\0';
    str2[0] = '\0';

    rc = strspn_s(str1, LEN, str2, LEN, &count);
    if (rc != EOK) {
        printf("%s %u  Error rc=%d \n",
               __FUNCTION__, __LINE__, rc);
    }
    if (count != 0) {
        printf("%s %u  Error  count=%d rc=%d \n",
               __FUNCTION__, __LINE__, count, rc);
    }

    std_count = strspn(str1, str2);
    if (count != std_count) {
        printf("%s %u  count=%d std_count=%d  rc=%d \n",
               __FUNCTION__, __LINE__, count, std_count, rc);
    }
*/-----------------------------------------------*/

    strcpy (str1, "keep it simple");
    strcpy (str2, "keep");

    rc = strspn_s(str1, 2, str2, LEN, &count);
    if (rc != ESUNTERM) {
        printf("%s %u  Error rc=%d \n",
               __FUNCTION__, __LINE__, rc);
    }
    /* since rc is ESUNTERM, don't expect count to be correct
    std_count = strspn(str1, str2);
    if (count != std_count) {
        printf("%s %u  count=%d std_count=%d  rc=%d \n",
               __FUNCTION__, __LINE__, count, std_count, rc);
    }
*/
```
strcpy (str1, "keep it simple");
strcpy (str2, "keep");

rc = strspn_s(str1, LEN, str2, 2, &count);
if (rc != ESUNTERM) {
    printf("%s %u Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

strcpy (str1, "keep it simple");
strcpy (str2, "k");
rc = strspn_s(str1, LEN, str2, 1, &count);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

std_count = strspn(str1, str2);
if (count != std_count) {
    printf("%s %u count=%d  std_count=%d  rc=%d \n",
            __FUNCTION__, __LINE__, count, std_count, rc);
    // printf("%s %u count=%d  std_count=%d  rc=%d \n",
    //            __FUNCTION__, __LINE__, count, std_count, rc);
}

strcpy (str1, "keep it simple");
strcpy (str2, "ke");
rc = strspn_s(str1, LEN, str2, 2, &count);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

std_count = strspn(str1, str2);
if (count != std_count) {
    printf("%s %u count=%d  std_count=%d  rc=%d \n",
            __FUNCTION__, __LINE__, count, std_count, rc);
}
strcpy (str1, "keep it simple");
strcpy (str2, "keep");

rc = strspn_s(str1, LEN, str2, LEN, &count);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
                   __FUNCTION__, __LINE__, rc);
}

std_count = strspn(str1, str2);
if (count != std_count) {
    printf("%s %u  count=%d  std_count=%d  rc=%d 
",
                   __FUNCTION__, __LINE__,  count, std_count, rc);
}

strcpy (str1, "keep it simple");
strcpy (str2, "keep");

rc = strspn_s(str1, LEN, str2, LEN, &count);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
                   __FUNCTION__, __LINE__, rc);
}

std_count = strspn(str1, str2);
if (count != std_count) {
    printf("%s %u  count=%d  std_count=%d  rc=%d 
",
                   __FUNCTION__, __LINE__,  count, std_count, rc);
}
strcpy (str2, "notincluded");

rc = strspn_s(str1, LEN, str2, LEN, &count);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

std_count = strspn(str1, str2);
if (count != std_count) {
    printf("%s %u  count=%d  std_count=%d  rc=%d \n", __FUNCTION__, __LINE__, count, std_count, rc);
}

/*-------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "1234567890");

rc = strspn_s(str1, LEN, str2, LEN, &count);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

std_count = strspn(str1, str2);
if (count != std_count) {
    printf("%s %u  count=%d  std_count=%d  rc=%d \n", __FUNCTION__, __LINE__, count, std_count, rc);
}

/*-------------------------------------*/
printf("\n\nDone \n");
}

static void test_strstr_s(void)
{
    int LEN=128;

    errno_t rc;
char *sub;
char *std_sub;

rszize_t len1;
rszize_t len2;

char str1[LEN];
char str2[LEN];

/*--------------------------------------------------*/
printf("strstr_s TESTING\n");

rc = strstr_s(NULL, LEN, str2, LEN, &sub);
if (rc != ESNULLP) {
    printf("%s %u Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
rc = strstr_s(str1, LEN, NULL, LEN, &sub);
if (rc != ESNULLP) {
    printf("%s %u Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
rc = strstr_s(str1, LEN, str2, LEN, NULL);
if (rc != ESNULLP) {
    printf("%s %u Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
rc = strstr_s(str1, 0, str2, LEN, &sub);
if (rc != ESZEROL) {
    printf("%s %u Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
rc = strstr_s(str1, RSIZE_MAX_STR+1, str2, LEN, &sub);
if (rc != ESLEMAX) {

printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
/*---------------------------------------------*/
rc = strstr_s(str1, LEN, str2, 0, &sub);
if (rc != ESZEROL) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
/*---------------------------------------------*/
rc = strstr_s(str1, LEN, str2, RSIZE_MAX_STR+1, &sub);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
/*---------------------------------------------*/
strcpy(str1, "keep it all together");
*str2 = '\0';
rc = strstr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
if (sub != str1) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
/*---------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "kee");
/* substring at beginning */
rc = strstr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
/*---------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "kee");
/* substring at beginning */
rc = strstr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
if (sub != &str1[0]) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*-----------------------------*/

strcpy(str1, "keep it all together");
strcpy(str2, "eep it");

/* substring in the middle - left */
rc = strstr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (sub != &str1[1]) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*-----------------------------*/

strcpy(str1, "keep it all together");
strcpy(str2, "ethe");
/* substring in the middle - right */
rc = strstr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (sub != &str1[15]) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*-----------------------------*/

strcpy(str1, "keep it all together");
strcpy(str2, "er");
len1 = strlen(str1);
len2 = strlen(str2);
/* substring at the end */
rc = strstr_s(str1, len1, str2, len2, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}

if (sub != &str1[18]) {
    printf("%s %u  Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "it all");

/*/ str1 is unterminated */
rc = strstr_s(str1, 3, str2, LEN, &sub);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}

if (sub != NULL) {
    printf("%s %u  Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "it all");

/*/ str1 is unterminated */
rc = strstr_s(str1, LEN, str2, 5, &sub);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}

if (sub != NULL) {
    printf("%s %u  Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "it all");

/*/ str1 is unterminated */
rc = strstr_s(str1, LEN, str2, 5, &sub);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}

if (sub != NULL) {
    printf("%s %u  Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "1234");

len1 = strlen(str1);

/* str1 is unterminated */
rc = strstr_s(str1, len1, str2, LEN, &sub);
if (rc != ESNOTFND) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
if (sub != NULL) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
/*----------------------------------------*/

strcpy(str1, "keep it all together");
strcpy(str2, "it all");

/* str2 is unterminated */
rc = strstr_s(str1, LEN, str2, 2, &sub);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
if (sub != NULL) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
/*----------------------------------------*/

strcpy(str1, "keep it all together");
strcpy(str2, "eep");

/* validate */
rc = strstr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}
if (sub != &str1[1]) {
    printf("%s %u  Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
/* compare to legacy */
std_sub = strstr(str1, str2);
if (sub != std_sub) {
    printf("%s %u  Error rc=%u \n", 
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

printf("\n\nDone\n");
}

static void test_strtok_s(void)
{
    int LEN=128;

erno_t rc = EOK;

    char *p2str;
    char *p2tok;

    rsize_t len;
    char  str1[LEN];
    char  str2[LEN];

    printf("strtok_s TESTING\n");
    /*-----------------------------------------------*/
    p2tok = strtok_s(str1, NULL, str2,  &p2str);
    if (p2tok != NULL) {
        printf("%s %u   Error rc=%u \n", 
                __FUNCTION__, __LINE__, rc);
    }
    /*-----------------------------------------------*/
    // printf("test: %u \n", __LINE__);

    len = 0;
    p2tok = strtok_s(str1, &len, str2,  &p2str);
    if (p2tok != NULL) {
        printf("%s %u   Error rc=%u \n", 
                __FUNCTION__, __LINE__, rc);
    }
len = RSIZE_MAX_STR + 1;
p2tok = strtok_s(str1, &len, str2, &p2str);
if (p2tok != NULL) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

len = 0;
p2tok = strtok_s(str1, &len, NULL, &p2str);
if (p2tok != NULL) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

/* no token test */
strcpy(str1, "aaaaaaaa");
len = strlen(str1);
strcpy(str2, "fedcba");
p2tok = strtok_s(str1, &len, str2, &p2str);
if (p2tok != NULL) {
    printf("%s %u token -%s-  remaining -%s- \n",
            __FUNCTION__, __LINE__, p2tok, p2str);
}

//printf("token -%s- -%s- \n", p2tok, p2str);

/*-------------------------------------------*/
// printf("test: %u \n", __LINE__);
strcpy(str1, "jklmnopqrst");
len = strlen(str1) - 2;       /* cheat on len */
strcpy(str2, "fedcba");
p2tok = strtok_s(str1, &len, str2, &p2str);
if (p2tok != NULL) {
    printf("%s %u token -%s- remaining -%s- \n",
            __FUNCTION__, __LINE__,  p2tok, p2str);
}
if (p2tok != NULL) {
    printf("token -%s-  -%s- \n", p2tok, p2str);
}
/*--------------------------------------------------*/
/*--------------------------------------------------*/
strcpy(str1, "aaamnopqrst");
len = strlen(str1);
strcpy(str2, "fedcba");
p2tok = strtok_s(str1, &len, str2, &p2str);
if (p2tok == NULL) {
    printf("%s %u token -%s- remaining -%s- \n",
            __FUNCTION__, __LINE__,  p2tok, p2str);
}
/*--------------------------------------------------*/
/** [1] **/
strcpy(str1, "aaamnopqrstfedcba");
len = strlen(str1);
strcpy(str2, "fedcba");
p2tok = strtok_s(str1, &len, str2, &p2str);
if (p2tok == NULL) {
    printf("%s %u token -%s- remaining -%s- \n",
            __FUNCTION__, __LINE__,  p2tok, p2str);
}
strcpy(str1, "aaamnopqrstfedcba");
len = strlen(str1);
strcpy(str2, "fedcba");
p2tok = strtok_s(str1, &len, str2, &p2str);
if (p2tok == NULL) {
    printf("%s %u token -%s- remaining -%s- \n",
            __FUNCTION__, __LINE__,  p2tok, p2str);
}
if (strcmp(p2tok, "mnopqrst")) {
printf("%s %u token -%s-  remaining -%s- \n", 
    __FUNCTION__, __LINE__,  p2tok, p2str);
}

//printf("token -%s-  -%s- len=%d \n", p2tok, p2str, (int)len);

/** [2] **/
strtok_s(p2str, &len, str2, &p2str);
if (p2tok != NULL) {
    printf("%s %u token -%s-  remaining -%s- \n", 
        __FUNCTION__, __LINE__,  p2tok, p2str);
}

//printf("token -%s-  -%s- len=%d \n", p2tok, p2str, (int)len);

/** [1] **/
strcpy(str1, "?a???b,,,#c");
len = strlen(str1);
strcpy(str2, "?");
p2tok = strtok_s(str1, &len, str2, &p2str);
if (strcmp(p2tok, "a") ) {
    printf("%s %u token -%s-  -%s- len=%d \n", 
        __FUNCTION__, __LINE__,  p2tok, p2str, (int)len);
}

//printf("token -%s-  -%s- len=%d \n", p2tok, p2str, (int)len);

/** [2] **/
strcpy(str1, "?a???b,,,#c");
len = strlen(str1);
strcpy(str2, ","); /* change the tokenizer string */

/* change the tokenizer string */

/* change the tokenizer string */

/* change the tokenizer string */
```c
__FUNCTION__, __LINE__, p2tok, p2str, (int)len );
}

//printf("token -%s- -%s- len=%d \n", p2tok, p2str, (int)len );
/*-----------------------------------------------*/
strcpy(str1, ",0,1,23,456,789,a,b,\n");
len = strlen(str1);

strcpy(str2, ",\n"); /* change the tokenizer string */
printf("\n");
printf("String to tokenize str1 = "%s"  len = %u\n", str1, len);
printf("String of delimiters str2 = "%s" \n", str2);

p2str = str1;
p2tok = str1;

while (p2tok && len) {
   printf("  p2tok = strtok_s(p2str, &len, str2, &p2str); \n");
   p2tok = strtok_s(p2str, &len, str2, &p2str);
   printf("  token -%s-  -%s- len=%d \n", p2tok, p2str, (int)len );
}
/*-----------------------------------------------*/
strcpy(str1, ",.*;one,two;three,;four*.*.five-six***\n");
len = strlen(str1);

strcpy(str2, ",.;*\n");
printf("\n");
printf("String to tokenize str1 = "%s"  len = %u\n", str1, len);
printf("String of delimiters str2 = "%s" \n", str2);

p2tok = strtok_s(str1, &len, str2, &p2str);
printf("  token -%s-  -%s- len=%d \n", p2tok, p2str, (int)len );
p2tok = strtok_s(NULL, &len, str2, &p2str);
printf("  token -%s-  -%s- len=%d \n", p2tok, p2str, (int)len );
```

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printf("  p2tok = strtok_s(NULL, &len, str2, &p2str); \n");
p2tok = strtok_s(NULL, &len, str2, &p2str);
printf("  token -%s-  -%s- len=%d \n", p2tok, p2str, (int)len );

printf("  p2tok = strtok_s(NULL, &len, str2, &p2str); \n");
p2tok = strtok_s(NULL, &len, str2, &p2str);
printf("  token -%s-  -%s- len=%d \n", p2tok, p2str, (int)len );

printf("  p2tok = strtok_s(NULL, &len, str2, &p2str); \n");
p2tok = strtok_s(NULL, &len, str2, &p2str);
printf("  token -%s-  -%s- len=%d \n", p2tok, p2str, (int)len );

printf("  p2tok = strtok_s(NULL, &len, str2, &p2str); \n");
p2tok = strtok_s(NULL, &len, str2, &p2str);
printf("  token -%s-  -%s- len=%d \n", p2tok, p2str, (int)len );

printf("  p2tok = strtok_s(NULL, &len, str2, &p2str); \n");
p2tok = strtok_s(NULL, &len, str2, &p2str);
printf("  token -%s-  -%s- len=%d \n", p2tok, p2str, (int)len );

/* len is zero at this point */
printf("  p2tok = strtok_s(NULL, &len, str2, &p2str); \n");
p2tok = strtok_s(NULL, &len, str2, &p2str);
printf("  token -%s-  -%s- len=%d \n", p2tok, p2str, (int)len );

printf("\n");
/*--------------------------------------------------*/

strcpy(str1, ",.*;one,two;three,;four*.*.five-six***");

len = strlen(str1);
strncpy(str2, ",../;one,;two;three;four*.*;five-six***");

while (p2tok && len) {
  printf("  p2tok = strtok_s(p2str, &len, str2, &p2str); \n");
p2tok = strtok_s(p2str, &len, str2, &p2str);
  printf("  token -%s-  -%s- len=%d \n", p2tok, p2str, (int)len );
}
/*--------------------------------------------------*/
strcpy(str1, ",.*;one,two;three,;four*.*.five-six***");

len = strlen(str1) - 1;    /** back off the null **/  

strcpy(str2, ",.;*");

printf("\n");
printf("String to tokenize str1 = \"%s\"  len = %u\n", str1, len);
printf("String of delimiters str2 = \"%s\" \n", str2);

p2str = str1;
p2tok = str1;

while (p2tok && len) {
    printf("  p2tok = strtok_s(p2str, &len, str2, &p2str); \n");
    p2tok = strtok_s(p2str, &len, str2, &p2str);
    printf("  token -%s-  -%s- len=%d \n", p2tok, p2str, (int)len );
}

/*--------------------------------------------------*/
strcpy(str1, ",.*;one,two;three,;four*.*.five-six***");

len = strlen(str1) - 15;     /** back off a few! **/  

strcpy(str2, ",.;*");

printf("\n");
printf("String to tokenize str1 = \"%s\"  len = %u\n", str1, len);
printf("String of delimiters str2 = \"%s\" \n", str2);

p2str = str1;
p2tok = str1;

while (p2tok && len) {
    printf("  p2tok = strtok_s(p2str, &len, str2, &p2str); \n");

//        p2tok = strtok_s(p2str, &len, str2, &p2str);
    p2tok = strtok_s(NULL, &len, str2, &p2str);
    printf("  token -%s-  -%s- len=%d \n", p2tok, p2str, (int)len );
}

/*--------------------------------------------------*/

printf("\n\nDone \n");
static void test_strtolowercase_s(void)
{
    int LEN=128;
    errno_t rc;
    rsize_t len;
    char str[LEN];
    printf("strtolowercase_s TESTING\n");

    /*-------------------------------*/
    len = 5;
    rc = strtolowercase_s(NULL, len);
    if (rc != ESNULLP) {
        printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
    }

    /*-------------------------------*/
    len = 0;
    strcpy(str, "test");
    rc = strtolowercase_s(str, len);
    if (rc != ESZEROL) {
        printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
    }

    /*-------------------------------*/
    len = 99;
    strcpy(str, "test");
    rc = strtolowercase_s(str, len);
    if (rc != ESLEMAX) {
        printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
    }

    /*-------------------------------*/
    strcpy(str, "N");
    len = strlen(str);
}
rc = strtolowercase_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc );
}

/*--------------------------------------------------*/
strcpy(str, "NOWISTHETIME");
rc = strtolowercase_s(str, 5);
if (rc != ESUNTERM) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc );
}

/*--------------------------------------------------*/
strcpy(str, "NOWISTHETIME");
len = strlen(str);
rc = strtolowercase_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc );
}
if (strcmp(str, "nowisthetime") ) {
    printf("%s %u   Error -%s- \n",
            __FUNCTION__, __LINE__,  str);
}

/*--------------------------------------------------*/
strcpy(str, "qqeRo");
len = strlen(str);
rc = strtolowercase_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc );
}
if (strcmp(str, "qqero") ) {
    printf("%s %u   Error -%s- \n",
            __FUNCTION__, __LINE__,  str);
}
strcpy(str, "1234");
len = strlen(str);

rc = strtolowercase_s(str, 2);
if (rc != ESUNTERM) {
    printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

printf("\n\nDone \n");
}

static void test_strtouppercase_s(void)
{
    int LEN=128;
    errno_t rc;
    rsize_t len;
    char str[LEN];

    printf("strtouppercase_s TESTING\n");

    len = 5;
    rc = strtouppercase_s(NULL, len);
    if (rc != ENULLP) {
        printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
    }

/*--------------------------------------------------*/

len = 0;
strcpy(str, "test");
rc = strtouppercase_s(str, len);
if (rc != ESZEROL) {
    printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

len = 99;
strcpy(str, "test");
rc = strtouppercase_s(str, len);
if (rc != ESLEMAX) {
    printf("\%s \%u   Error rc=\%u \n",  
         __FUNCTION__, __LINE__, rc );
}
/*---------------------------------------------*/
strcpy(str, "n");
len = strlen(str);
rc = strtouppercase_s(str, len);
if (rc != EOK) {
    printf("\%s \%u   Error rc=\%u \n",  
         __FUNCTION__, __LINE__, rc );
}
/*---------------------------------------------*/
strcpy(str, "nowisthetime");
rc = strtouppercase_s(str, 5);
if (rc != ESUNTERM) {
    printf("\%s \%u   Error rc=\%u \n",  
         __FUNCTION__, __LINE__, rc );
}
/*---------------------------------------------*/
strcpy(str, "nowisthetime");
len = strlen(str);
rc = strtouppercase_s(str, len);
if (rc != EOK) {
    printf("\%s \%u   Error rc=\%u \n",  
         __FUNCTION__, __LINE__, rc );
}
if (strcmp(str, "NOWISTHETIME") ) {
    printf("\%s \%u   Error -%s- \n",  
         __FUNCTION__, __LINE__, str);
}
/*---------------------------------------------*/
strcpy(str, "qqeRo");
len = strlen(str);
rc = strtouppercase_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u 
", 
        __FUNCTION__,  __LINE__,  rc);
}

if (strcmp(str, "QQERO") ) {
    printf("%s %u   Error -%s- 
", 
        __FUNCTION__,  __LINE__, str);
}

strcpy (str, "1234");
len = strlen(str);
rc = strtouppercase_s(str, 2);
if (rc != ESUNTERM) {
    printf("%s %u   Error rc=%u 
", 
        __FUNCTION__,  __LINE__,  rc);
}

/*--------------------------------------------------*/

strcpy (str, "1234");
len = strlen(str);
rc = strtouppercase_s(str, 2);
if (rc != ESUNTERM) {
    printf("%s %u   Error rc=%u 
", 
        __FUNCTION__,  __LINE__,  rc);
}

/*--------------------------------------------------*/

printf("%u
Done 
");
}

static void test_strzero_s(void)
{
    int LEN=128;
    errno_t rc;
    rsize_t max_len;
    char str1[LEN];
    uint32_t i;

    printf("strzero_s TESTING
");

    /*-----------------------------*/

    rc = strzero_s(NULL, 5);
    if (rc != ESNULLP) {
        printf("%s %u   Error rc=%u 
", 
            __FUNCTION__,  __LINE__,  rc);
    }

    /*-----------------------------*/
rc = strzero_s(str1, 0);
if (rc != ESZEROL) {
    printf("%s %u  Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

/*----------------------------------------------*/

rc = strzero_s(str1, RSIZE_MAX_STR+1);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

/*----------------------------------------------*/

max_len = 1;
rc = strzero_s(str1, max_len);
if (rc != EOK) {
    printf("%s %u  Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
for (i=0; i<max_len; i++) {
    if (str1[i] != '\0') {
        printf("%s %u  Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
    }
}

/*----------------------------------------------*/

max_len = 2;
rc = strzero_s(str1, max_len);
if (rc != EOK) {
    printf("%s %u  Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
for (i=0; i<max_len; i++) {
    if (str1[i] != '\0') {
        printf("%s %u  Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
    }
}
max_len = 3;
rc = strzero_s(str1, max_len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
for (i=0; i<max_len; i++) {
    if (str1[i] != \0) {
        printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
    }
}

/*--------------------------------------------------*/
max_len = LEN;
rc = strzero_s(str1, max_len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
for (i=0; i<max_len; i++) {
    if (str1[i] != \0) {
        printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
    }
}

/*--------------------------------------------------*/

printf("\n\nDone \n");
}

void test_void (void)
{

}

% model digraph
! Describe the model. You have structured your test as a
A directed graph. Start keywords in column 1. Start the code at an offset(2TABS). This line("model digraph") can have an optional keyword.

% model digraph

Describe the model. You have structured your test as a directed graph. Start keywords in column 1. Start the code at an offset(2TABS). This line("model digraph") can have an optional keyword.

% model digraph vdag

acyclic paths leading from the start node. These tests cover all nodes.

If your test model is a tree(or hierarchical) or a DAG(Directed Acyclic Graph) then you should use this keyword.

% model digraph vdag

There are three keywords. They are:

- start node <nodeIdentifier> - Specify the start node in the model
- node <nodeIdentifier>: - Beginning of a node description.
  - Include descriptions for all edges starting at this node.
  - If there is code to be executed upon entry to this node enter that immediately following this line but before entering any edge description.
  - -><nodeIdentifier>: - Beginning of an edge description. This describes an edge from the node to &lt;n>
- Choose <nodeIdentifier> to be descriptive. Examples: AVLTreeInsert, DBSearch, DetachLine

These identifiers are used during runtime to present execution times and other data.

You can specify parameters for your unit test as follows:

`parameters:(uint interface, char* hostname="abc", uint subInterface=1)`

This should come before the line specifying the start node.

The parameters can be used in the code for nodes/edges. The values for parameters are received via CLI or as a result of direct invocation of the generated function. Parameters can be of type 'uint' or 'char*'. If values for parameters are provided on CLI defaults are used.

You should provide default values. If default values are not specified then the tool would assign default values. If the type is "uint" the default value is 0. Else(type char*) the default value is "".

During automation the default values are used. Use descriptive names for parameters.

parameters: (uint testcase = 1)

start node StartNode

You can place initialization code that needs to be executed prior to entering the start node here.

node StartNode:
int i=0;

for (i=0; i<MaxTestCases; i++)
testFuncs[i] = &test_void;

// test case index starts at 1
// memory related functions
testFuncs[1] = &test_memcmp_s;
testFuncs[2] = &test_memcpy_s;
testFuncs[3] = &test_memmove_s;
testFuncs[4] = &test_memzero_s;

// string related functions
testFuncs[10] = &test_strcasecmp_s;
testFuncs[12] = &test_strcat_s;
testFuncs[13] = &test_strcmp_s;
testFuncs[14] = &test_strmpftld_s;
testFuncs[15] = &test_strpy_s;
testFuncs[16] = &test_strpyftld_s;
testFuncs[17] = &test_strpyftldin_s;
testFuncs[18] = &test_strpyftldout_s;
testFuncs[19] = &test_strcspsn_s;
testFuncs[20] = &test_strfirstchar_s;
testFuncs[21] = &test_strfirstdiff_s;
testFuncs[22] = &test_strfirstsame_s;
testFuncs[23] = &test_strisalphanumeric_s;
testFuncs[24] = &test_strisascii_s;
testFuncs[25] = &test_strisdigit_s;
testFuncs[26] = &test_strislowercase_s;
testFuncs[27] = &test_strisnumeric_s;
testFuncs[28] = &test_strismixed_s;
testFuncs[29] = &test_strispassword_s;
testFuncs[30] = &test_strisuppercase_s;
testFuncs[31] = &test_strlastchar_s;
testFuncs[32] = &test_strlastdiff_s;
testFuncs[33] = &test_strlastsame_s;
testFuncs[34] = &test_strlfjustify_s;
testFuncs[35] = &test_strncat_s;
testFuncs[36] = &test_strncpy_s;
testFuncs[37] = &test_strnlens_s;
testFuncs[38] = &test_strpbrk_s;
testFuncs[39] = &test_strprefix_s;
testFuncs[40] = &test_strremovews_s;
testFuncs[41] = &test_strspn_s;
testFuncs[42] = &teststrstr_s;
testFuncs[43] = &test_strtok_s;
testFuncs[44] = &test_strtolowercase_s;
testFuncs[45] = &test_strtouppercase_s;

printf("\nSAFE STRING APIs TESTING\n");
printf("10 to test all memory funcs\n");
printf("50 to test all string funcs\n");
printf("60 to test all funcs\n");

printf("-----------------------\n");
// magic number to test all memory funcs
if (testcase == 10)
    for (i=0; i<4; i++)
        (*testFuncs[i])();

// magic number to test all string funcs
if (testcase == 50)
    for (i=10; i<MaxTestCases; i++)
        (*testFuncs[i])();

// magic number to test all funcs
if (testcase == 60)
    for (i=1; i<MaxTestCases; i++)
        (*testFuncs[i])();

(*testFuncs[testcase])();

printf("\n-------------------------------\n");
printf("\nSAFE STRING APIs TESTING DONE\n");

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/test/sesut-test/safe_string_ios.sesut
No license file was found, but licenses were detected in source scan.

# $Id:$
# $Source:$
#----------------------------------------------------------------------
# Jamfile - specify NG rules to build this component.
# May 2013, Subramanian Karunanithi
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#----------------------------------------------------------------------

IosMain safec_test
  : test_safec.c
  : libsahec
  ;
IosMain test_str_safec
: test_str_safec.c
: libsafer
;
#
#---------------------------------------------------------
# $Log:$
#---------------------------------------------------------
# $Endlog$
#

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/test/src/Jamfile
No license file was found, but licenses were detected in source scan.

#---------------------------------------------------------
# infra/safeC/test/Jamfile
#
# May-2013, Subramanian Karunanithi
#
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#---------------------------------------------------------
SubDir TOP infra safeC test ;

IosComponentSrc infra safeC test ;

#---------------------------------------------------------
# End of infra/safeC/test/Jamfile
#---------------------------------------------------------

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/test/Jamfile
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/*---------------------------------------------------------
 * strisuppercase_s.c
 *
 * October 2008, Bo Berry
 *
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 *---------------------------------------------------------
 *
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strisuppercase_s.c
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* safe_limits.h -- limits include for portability
* February 2009, Bo Berry
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*/

Found in path(s):
*/opt/cola/permits/1267931345_164850600.51/0/infra-safec-targz/safeC/include/safe_limits.h
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/*------------------------------------------------------------------
* safe_str_constraint.h
* October 2008, Bo Berry
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*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/safe_str_constraint.h

No license file was found, but licenses were detected in source scan.

/"------------------------------------------------------------------
* safe_mem_constraint.h
*
* October 2008, Bo Berry
*
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*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/safe_mem_constraint.h
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* safec_config.h -- common preprocessor macro definitions
* 
* March 2016, Philip Perricone
* 
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*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/infra-safec-tar.gz/safeC/src/safe_string/safe_logger.h
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* safe_logger.h -- library include for portability
* 
* October 2014, Mike Belscher
* 
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*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/include/safec_config.h
No license file was found, but licenses were detected in source scan.

/*-----------------------------------------------
 * test_strzero_s
 * To test strzero_s() function
 *
 * May 2013, Subramanian K
 *
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 *
*-----------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/test/src/test_strzero_s.c
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# # Makefile for libsafe
# # Sep 2013, Srivathsan S
# # Copyright (c) 2013 by Cisco Systems, Inc.
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AC_INIT([libsafe], [1.0], [csdl-dev@cisco.com])
AM_INIT_AUTOMAKE([-Wall -Werror foreign])

# Perform Some basic Checks
AC_MSG_NOTICE([Checking programs and Header Files])
AC_PROG_CC
AC_CHECK_HEADERS([stdlib.h \
    string.h \
    limits.h \
    errno.h \
    ])

# Initialize the Libtool Library
AC_ENABLE_SHARED
AC_DISABLE_STATIC
AC_PROG_LIBTOOL(libtool)

AC_CONFIG_FILES([Makefile])
AC_OUTPUT

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safeC-safeC/configure.ac
No license file was found, but licenses were detected in source scan.

/*---------------------------------------------
 * strstr_s.c
 *
 * November 2008, Bo Berry
 *
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 *---------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safeC-safeC/src/safe_string/strstr_s.c
No license file was found, but licenses were detected in source scan.

/*---------------------------------------------
 * strtok_s.c
 *
 * October 2008, Bo Berry
 *
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 *---------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safeC-safeC/src/safe_string/strtok_s.c
No license file was found, but licenses were detected in source scan.

/*---------------------------------------------
* safe_str_lib.h -- Safe C Library String APIs
* 
* October 2008, Bo Berry
* 
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*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/include/safe_str_lib.h

No license file was found, but licenses were detected in source scan.

/*-------------------------------------
* strcasestr_s.c
* 
* November 2008, Bo Berry
* 
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* */

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strcasestr_s.c

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#-------------------------------------
# infra/safeC/IosApiExports
#
# May-2013, Subramanian Karunanithi
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IosApi
    safec__mem_primitives_lib__api
: 0x15A10001
: 1.0 ;

IosApi
    safec__safe_lib_errno__api
: 0x15A10002
: 1.1 ;

IosApi
    safec__safe_lib__api
: 0x15A10003
: 1.2 ;

IosApi
    safec__safe_limits__api
: 0x15A10004
: 1.3 ;

IosApi
    safec__safe_mem_constraint__api
: 0x15A10005
: 1.4 ;

IosApi
    safec__safe_mem_lib__api
: 0x15A10006
: 1.5 ;

IosApi
    safec__safe_str_constraint__api
: 0x15A10007
: 1.6 ;

IosApi
    safec__safe_string__api
: 0x15A10008
: 1.7 ;

IosApi
    safec__safe_str_lib__api
: 0x15A10009
Open Source Used In IOS XR Software 7.5.2 14275

1.8;

IosApi
   safec_safe_types__api
   : 0x15A1000A
   : 1.9.0;

IosApiExportHeaders
   infra safeC
   : safe_lib.h
   safe_lib_errno.h
   safe_limits.h
   safe_mem_lib.h
   safe_stdlib.h
   safe_str_lib.h
   safe_string.h
   safe_types.h
   safec_config.h
   safec_mem_lib.h
   safec_str_lib.h
;

IosApiExportHeaders
   infra safeC
   : mem_primitives_lib.h
   : infra safeC src safe_string
;

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/IosApiExports.jam

1.950 alsa 1.0.28
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* erikcederstrand <http://code.google.com/u/erikcederstrand/>
* NTLM-authenticated HTTPSConnectionPool
* Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
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* Response gzip and deflate encoding support
* 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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  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
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* 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 <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 <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 <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.
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 */
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 *
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 * This file is used for creating a compressed BOOTP file for the
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 *
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1.970 blackfriday 2.0.1

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1.971 mtd-utils 1.5.2

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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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package engine

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",
        },
    }
}
// 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: name1Quantity: 10 nodesExpiration date: 2020-01-01
2:License Name: name2Quantity: 20 nodesExpiration 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
`,
]
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",
                    },
                },
                ComponentsString: "compstring",
            },
        },
    }
    out := &bytes.Buffer{
        test:case.context.Output = out
        err := SubscriptionsWrite(test:case.context, subscriptions)
        if err != nil {
            assert.Error(t, err, test:case.expected)
        } else {
            assert.Check(t, is.Equal(test:case.expected, out.String()))
        }
    }
    if err != nil {
        assert.Error(t, err, test:case.expected)
    } else {
        assert.Check(t, is.Equal(test:case.expected, out.String()))
    }
}
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{}{{
"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{}{{
"name": "nodes",
"value": float64(20),
},
"ProductID": "productid2",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01",
}
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name2\nQuantity: 20 nodes\nExpiration date: 2020-01-01",
}
}

out := &bytes.Buffer{}
err := SubscriptionsWrite(formatter.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{}
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 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
}
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.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.Wrap(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.Wrap(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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    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"
}

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type IssuedLicense struct {
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    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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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}}
name: {{.Name}}
owner: {{.Owner}}
components: {{.ComponentsString}}
`}
    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{}
    licenseCtx.Header = map[string]string{
        "Num":               numHeader,
        "Owner":             ownerHeader,
        "Name":              licenseNameHeader,
        "ID":                idHeader,
        "DockerID":          dockerIDHeader,
        "ProductID":         productIDHeader,
        "ProductRatePlan":   productRatePlanHeader,
        "ProductRatePlanID": productRatePlanIDHeader,
        "Start":             startHeader,
        "Expires":           expiresHeader,
        "State":             stateHeader,
        "Eusa":              eusaHeader,
        "ComponentsString":  pricingComponentsHeader,
    }
    return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
    formatter.HeaderContext
    trunc bool
}
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 github

import ( "context"
```
"fmt"
"net/http"
"reflect"
"testing"
)

func TestLicensesService_List(t *testing.T) {
    client, mux, _, teardown := setup()
    defer teardown()

    mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        fmt.Fprintf(w, `[
            {"key":"mit","name":"MIT","spdx_id":"MIT","url":"https://api.github.com/licenses/mit","featured":true}
        ]`)
    })

    licenses, _, err := client.Licenses.List(context.Background())
    if err != nil {
        t.Errorf("Licenses.List returned error: %v", err)
    }

    want := []*License{{
        Key: String("mit"),
        Name: String("MIT"),
        SPDXID: String("MIT"),
        URL: String("https://api.github.com/licenses/mit"),
        Featured: Bool(true),
    }}
    if !reflect.DeepEqual(licenses, want) {
        t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
    }
}

func TestLicensesService_Get(t *testing.T) {
    client, mux, _, teardown := setup()
    defer teardown()

    mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        fmt.Fprintf(w, `{"key":"mit","name":"MIT"}`)
    })

    license, _, err := client.Licenses.Get(context.Background(), "mit")
    if err != nil {
        t.Errorf("Licenses.Get returned error: %v", err)
    }

    want := &License{Key: String("mit"), Name: String("MIT")}
```

if !reflect.DeepEqual(license, want) {
    t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
    client, _, _, teardown := setup()
    defer teardown()

    _, _, err := client.Licenses.Get(context.Background(), "%")
    testURLRequestParseError(t, err)
}

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package github

import (  
    "context"
    "fmt"
)

// LicensesService handles communication with the license related
// methods of the GitHub API.
// GitHub API docs: https://developer.github.com/v3/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
    Name *string `json:"name,omitempty"`
    Path *string `json:"path,omitempty"
    SHA *string `json:"sha,omitempty"
    Size *int `json:"size,omitempty"
    URL *string `json:"url,omitempty"
    HTMLURL *string `json:"html_url,omitempty"
    GitURL *string `json:"git_url,omitempty"
    DownloadURL *string `json:"download_url,omitempty"
    Type *string `json:"type,omitempy"
    Content *string `json:"content,omitempy"
    Encoding *string `json:"encoding,omitempy"
    License *License `json:"license,omitempy"
}

func (l RepositoryLicense) String() string {
// License represents an open source license.
type License struct {
    Key  *string `json:"key,omitempty"`
    Name *string `json:"name,omitempty"`
    URL  *string `json:"url,omitempty"`
    SPDXID         *string   `json:"spdx_id,omitempty"`
    HTMLURL        *string   `json:"html_url,omitempty"`
    Featured       *bool     `json:"featured,omitempty"`
    Description    *string   `json:"description,omitempty"`
    Implementation *string   `json:"implementation,omitempty"`
    Permissions    *[]string `json:"permissions,omitempty"`
    Conditions     *[]string `json:"conditions,omitempty"`
    Limitations    *[]string `json:"limitations,omitempty"`
    Body           *string   `json:"body,omitempty"
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List(ctx context.Context) (*[]License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }

    var licenses []License
    resp, err := s.client.Do(ctx, req, &licenses)
    if err != nil {
        return nil, resp, err
    }

    return licenses, resp, nil
}

// Get extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)
req, err := s.client.NewRequest("GET", u, nil)
if err != nil {
    return nil, nil, err
}

license := new(License)
resp, err := s.client.Do(ctx, req, license)
if err != nil {
    return nil, resp, err
}

return license, resp, nil
}

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    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
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Gocheck - A rich testing framework 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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 */

package license

import (
 "context"
 "flag"

 "github.com/vmware/govmomi/govc/cli"
 "github.com/vmware/govmomi/govc/flags"
 "github.com/vmware/govmomi/license"
 "github.com/vmware/govmomi/vim25/types"
)

type assign struct {
 *flags.ClientFlag
 *flags.OutputFlag
 *flags.HostSystemFlag
}
func init() {
    cli.Register("license.assign", &assign{})
}

func (cmd *assign) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)

    cmd.HostSystemFlag, ctx = flags.NewHostSystemFlag(ctx)
    cmd.HostSystemFlag.Register(ctx, f)

    cmd.ClusterFlag, ctx = flags.NewClusterFlag(ctx)
    cmd.ClusterFlag.Register(ctx, f)

    f.StringVar(&cmd.name, "name", ",", "Display name")
    f.BoolVar(&cmd.remove, "remove", false, "Remove assignment")
}

func (cmd *assign) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }

    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }

    if err := cmd.HostSystemFlag.Process(ctx); err != nil {
        return err
    }

    return cmd.ClusterFlag.Process(ctx)
}

func (cmd *assign) Usage() string {
    return "KEY"
}

func (cmd *assign) Description() string {
    return `Assign licenses to HOST or CLUSTER.
Examples:`}
govc license.assign $VCSA_LICENSE_KEY
govc license.assign -host a_host.example.com $ESX_LICENSE_KEY
govc license.assign -cluster a_cluster $VSAN_LICENSE_KEY
}

func (cmd *assign) Run(ctx context.Context, f *flag.FlagSet) error {
if f.NArg() != 1 {
    return flag.ErrHelp
}

key := f.Arg(0)

client, err := cmd.Client()
if err != nil {
    return err
}

m, err := license.NewManager(client).AssignmentManager(ctx)
if err != nil {
    return err
}

host, err := cmd.HostSystemIfSpecified()
if err != nil {
    return err
}

var id string

if host == nil {
    cluster, cerr := cmd.ClusterIfSpecified()
    if cerr != nil {
        return cerr
    }

    if cluster == nil {
        // Default to vCenter UUID
        id = client.ServiceContent.About.InstanceUuid
    } else {
        id = cluster.Reference().Value
    }
} else {
    id = host.Reference().Value
}

if cmd.remove {
    return m.Remove(ctx, id)
}
info, err := m.Update(ctx, id, key, cmd.name)
if err != nil {
    return err
}

return cmd.WriteResult(licenseOutput([]types.LicenseManagerLicenseInfo{*info}))
} /*
*/

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package license

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    "context"
    "flag"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
)

var featureUsage = "List licenses with given feature"

type ls struct {
    *flags.ClientFlag
    *flags.OutputFlag

    feature string
}

func init() {
    cli.Register("license.ls", &ls{})
}

func (cmd *ls) Register(ctx context.Context, f *flag.FlagSet) {


cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
cmd.ClientFlag.Register(ctx, f)

cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
cmd.OutputFlag.Register(ctx, f)

f.StringVar(&cmd.feature, "feature", ",", featureUsage)
}

func (cmd *ls) Process(ctx context.Context) error {
if err := cmd.ClientFlag.Process(ctx); err != nil {
    return err
}
if err := cmd.OutputFlag.Process(ctx); err != nil {
    return err
}
return nil
}

func (cmd *ls) Run(ctx context.Context, f *flag.FlagSet) error {
client, err := cmd.Client()
if err != nil {
    return err
}
m := license.NewManager(client)
result, err := m.List(ctx)
if err != nil {
    return err
}
if cmd.feature != "" {
    result = result.WithFeature(cmd.feature)
}
return cmd.WriteResult(licenseOutput(result))
} /*

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    "context"
    "flag"
    "fmt"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/govmomi/license"
    "github.com/vmware/govmomi/govmomi/vim25/types"
)

type add struct {
    *flags.ClientFlag
    *flags.OutputFlag
}

func init() {
    cli.Register("license.add", &add{ })
}

func (cmd *add) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
}

func (cmd *add) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *add) Usage() string {
    return "KEY..."
}
func (cmd *add) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m := license.NewManager(client)

    // From the vSphere 5.5 documentation:
    //
    // To specify the edition type and any optional functions, use
    // updateLicense for ESX Server and addLicense follow by
    // LicenseAssingmentManager.updateAssignedLicense for VirtualCenter.
    //
    var addFunc func(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error)
    switch t := client.ServiceContent.About.ApiType; t {
    case "HostAgent":
        addFunc = m.Update
    case "VirtualCenter":
        addFunc = m.Add
    default:
        return fmt.Errorf("unsupported ApiType: %s", t)
    }

    result := make(licenseOutput, 0)
    for _, v := range f.Args() {
        license, err := addFunc(ctx, v, nil)
        if err != nil {
            return err
        }
        result = append(result, license)
    }

    return cmd.WriteResult(licenseOutput(result))
}

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    "reflect"  
    "testing"  
    "github.com/vmware/govmomi"  
    "github.com/vmware/govmomi/find"  
    "github.com/vmware/govmomi/license" 
)

func TestLicenseManagerVPX(t *testing.T) {  
    ctx := context.Background()  
    m := VPX()  
    defer m.Remove()  
    err := m.Create()  
    if err != nil {  
        t.Fatal(err)  
    }  
    s := m.Service.NewServer()  
    defer s.Close()  
    c, err := govmomi.NewClient(ctx, s.URL, true)  
    if err != nil {  
        t.Fatal(err)  
    }
lm := license.NewManager(c.Client)
am, err := lm.AssignmentManager(ctx)
if err != nil {
t.Fatal(err)
}

la, err := am.QueryAssigned(ctx, "enoent")
if err != nil {
t.Fatal(err)
}

if len(la) != 0 {
t.Errorf("unexpected license")
}

finder := find.NewFinder(c.Client, false)
hosts, err := finder.HostSystemList(ctx, "/...")
if err != nil {
t.Fatal(err)
}

host := hosts[0].Reference().Value

for _, name := range []string{"", host, vcid} {
la, err = am.QueryAssigned(ctx, name)
if err != nil {
t.Fatal(err)
}

if len(la) != 1 {
t.Fatal("no licenses")
}

if !reflect.DeepEqual(la[0].AssignedLicense, EvalLicense) {
t.Fatal("invalid license")
}
}

func TestLicenseManagerESX(t *testing.T) {
ctx := context.Background()
m := ESX()

defer m.Remove()
err := m.Create()
if err != nil {
    t.Fatal(err)
}

s := m.Service.NewServer()
defer s.Close()

c, err := govmomi.NewClient(ctx, s.URL, true)
if err != nil {
    t.Fatal(err)
}

lm := license.NewManager(c.Client)
_, err = lm.AssignmentManager(ctx)
if err == nil {
    t.Fatal("expected error")
}

la, err := lm.List(ctx)
if err != nil {
    t.Fatal(err)
}

if len(la) != 1 {
    t.Fatal("no licenses")
}

if !reflect.DeepEqual(la[0], EvalLicense) {
    t.Fatal("invalid license")
}

func TestAddRemoveLicense(t *testing.T) {
    ctx := context.Background()
    m := ESX()

defer m.Remove()

    err := m.Create()
    if err != nil {
        t.Fatal(err)
    }

    s := m.Service.NewServer()
defer s.Close()

c, err := govmomi.NewClient(ctx, s.URL, true)
if err != nil {
    t.Fatal(err)
}

lm := license.NewManager(c.Client)
key := "00000-00000-00000-00000-11111"
labels := map[string]string{"key": "value"}

info, err := lm.Add(ctx, key, labels)
if err != nil {
    t.Fatal(err)
}

if info.LicenseKey != key {
    t.Fatalf("expect info.LicenseKey equal to %q; got %q", key, info.LicenseKey)
}

if len(info.Labels) != len(labels) {
    t.Fatalf("expect len(info.Labels) equal to %d; got %d", len(labels), len(info.Labels))
}

if info.Labels[0].Key != "key" || info.Labels[0].Value != "value" {
    t.Fatalf("expect label to be {key:value}; got {"key": "value"}, 
    info.Labels[0].Key, info.Labels[0].Value)
}

la, err := lm.List(ctx)
if err != nil {
    t.Fatal(err)
}

if len(la) != 2 {
    t.Fatal("no licenses")
}

if la[1].LicenseKey != key {
    t.Fatalf("expect info.LicenseKey equal to %q; got %q", 
    key, la[1].LicenseKey)
}

if len(la[1].Labels) != len(labels) {
    t.Fatalf("expect len(info.Labels) equal to %d; got %d", 
    len(labels), len(la[1].Labels))
}

if la[1].Labels[0].Key != "key" || la[1].Labels[0].Value != "value" {
    t.Fatalf("expect label to be {key:value}; got {"key": "value"}, 
    info.Labels[0].Key, info.Labels[0].Value)
la[1].Labels[0].Key, la[1].Labels[0].Value)
}

err = lm.Remove(ctx, key)
if err != nil {
    t.Fatal(err)
}

la, err = lm.List(ctx)
if err != nil {
    t.Fatal(err)
}

if len(la) != 1 {
    t.Fatal("no licenses")
}

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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",
         },
        },
    },
}
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 *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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*/

package license

import {
    "context"
    "flag"
    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
}

type decode struct {
    *flags.ClientFlag
    *flags.OutputFlag

    feature string
}

func init() {
    cli.Register("license.decode", &decode{})
}

func (cmd *decode) Register(ctx context.Context, f *flag.FlagSet) {

cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
cmd.ClientFlag.Register(ctx, f)

cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
cmd.OutputFlag.Register(ctx, f)

f.StringVar(&cmd.feature, "feature", ",", featureUsage)
}

func (cmd *decode) Process(ctx context.Context) error {
if err := cmd.ClientFlag.Process(ctx); err != nil {
    return err
}
if err := cmd.OutputFlag.Process(ctx); err != nil {
    return err
}
return nil
}

func (cmd *decode) Usage() string {
    return "KEY..."
}

func (cmd *decode) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    var result license.InfoList
    m := license.NewManager(client)
    for _, v := range f.Args() {
        license, err := m.Decode(ctx, v)
        if err != nil {
            return err
        }
        result = append(result, license)
    }
    if cmd.feature != "" {
        result = result.WithFeature(cmd.feature)
    }
    return cmd.WriteResult(licenseOutput(result))
}

# People who can (and typically have) contributed to this repository.
#
# This script is generated by contributors.sh
#

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*/

package license

import (
    "context"
    "strconv"
    "strings"
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/types"
)

type Manager struct {
    object.Common
}

func NewManager(c *vim25.Client) *Manager {
  m := Manager{
    object.NewCommon(c, *c.ServiceContent.LicenseManager),
  }
  return &m
}
func mapToKeyValueSlice(m map[string]string) []types.KeyValue {
    var r []types.KeyValue
    for k, v := range m {
        r = append(r, types.KeyValue{Key: k, Value: v})
    }
    return r
}

func (m Manager) Add(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
    req := types.AddLicense{
        This: m.Reference(),
        LicenseKey: key,
        Labels: mapToKeyValueSlice(labels),
    }
    res, err := methods.AddLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }
    return res.Returnval, nil
}

func (m Manager) Decode(ctx context.Context, key string) (types.LicenseManagerLicenseInfo, error) {
    req := types.DecodeLicense{
        This: m.Reference(),
        LicenseKey: key,
    }
    res, err := methods.DecodeLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }
    return res.Returnval, nil
}

func (m Manager) Remove(ctx context.Context, key string) error {
    req := types.RemoveLicense{
        This: m.Reference(),
        LicenseKey: key,
    }
    _, err := methods.RemoveLicense(ctx, m.Client(), &req)
    return err
}
func (m Manager) Update(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateLicense{
        This:       m.Reference(),
        LicenseKey: key,
        Labels:     mapToKeyValueSlice(labels),
    }

    res, err := methods.UpdateLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }

    return res.Returnval, nil
}

func (m Manager) List(ctx context.Context) (InfoList, error) {
    var mlm mo.LicenseManager

    err := m.Properties(ctx, m.Reference(), []string{"licenses"}, &mlm)
    if err != nil {
        return nil, err
    }

    return InfoList(mlm.Licenses), nil
}

func (m Manager) AssignmentManager(ctx context.Context) (*AssignmentManager, error) {
    var mlm mo.LicenseManager

    err := m.Properties(ctx, m.Reference(), []string{"licenseAssignmentManager"}, &mlm)
    if err != nil {
        return nil, err
    }

    if mlm.LicenseAssignmentManager == nil {
        return nil, object.ErrNotSupported
    }

    am := AssignmentManager{
        object.NewCommon(m.Client(), *mlm.LicenseAssignmentManager),
    }

    return &am, nil
}

type licenseFeature struct {
    name  string
}
func parseLicenseFeature(feature string) *licenseFeature {
    lf := new(licenseFeature)

    f := strings.Split(feature, ":")

    lf.name = f[0]

    if len(f) > 1 {
        var err error
        lf.level, err = strconv.Atoi(f[1])
        if err != nil {
            lf.name = feature
        }
    }

    return lf
}

func HasFeature(license types.LicenseManagerLicenseInfo, key string) bool {
    feature := parseLicenseFeature(key)

    for _, p := range license.Properties {
        if p.Key != "feature" {
            continue
        }

        kv, ok := p.Value.(types.KeyValue)
        if !ok {
            continue
        }

        lf := parseLicenseFeature(kv.Key)
        if lf.name == feature.name && lf.level >= feature.level {
            return true
        }
    }

    return false
}

// InfoList provides helper methods for []types.LicenseManagerLicenseInfo
type InfoList []types.LicenseManagerLicenseInfo
func (l InfoList) WithFeature(key string) InfoList {
    var result InfoList

    for _, license := range l {
        if HasFeature(license, key) {
            result = append(result, license)
        }
    }

    return result
}

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*/

package license
import {
    "context"
    "flag"
    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
}

type remove struct {
*flags.ClientFlag
*flags.OutputFlag
}

func init() {
cli.Register("license.remove", &remove{ })
}

func (cmd *remove) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
}

func (cmd *remove) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *remove) Usage() string {
    return "KEY..."
}

func (cmd *remove) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    m := license.NewManager(client)
for _, v := range f.Args() {
    err = m.Remove(ctx, v)
    if err != nil {
        return err
    }
}

return nil

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*/

package license

import {
    "context"
    "flag"
    "fmt"
    "io"
    "os"
    "text/tabwriter"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/vim25/types"
}

type assigned struct {
    *flags.ClientFlag
    *flags.OutputFlag

    id string
}
func init() {
cli.Register("license.assigned.ls", &assigned{})
}

func (cmd *assigned) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)

    f.StringVar(&cmd.id, "id", "", "Entity ID")
}

func (cmd *assigned) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *assigned) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    
    m, err := license.NewManager(client).AssignmentManager(ctx)
    if err != nil {
        return err
    }
    
    assigned, err := m.QueryAssigned(ctx, cmd.id)
    if err != nil {
        return err
    }
    
    return cmd.WriteResult(assignedOutput(assigned))
}

type assignedOutput []types.LicenseAssignmentManagerLicenseAssignment

func (res assignedOutput) Write(w io.Writer) error {
tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
    fmt.Fprintf(tw, "Id:	Scope:	Name:	License:
")
    return nil
}
for _, v := range res {
    fmt.Fprintf(tw, "%s\t", v.EntityId)
    fmt.Fprintf(tw, "%s\t", v.Scope)
    fmt.Fprintf(tw, "%s\t", v.EntityDisplayName)
    fmt.Fprintf(tw, "%s\t", v.AssignedLicense.LicenseKey)
    fmt.Fprintf(tw, "\n")
} return tw.Flush()

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*/

package license

import (
    "fmt"
    "io"
    "os"
    "text/tabwriter"

    "github.com/vmware/govmomi/vim25/types"
)

type licenseOutput []types.LicenseManagerLicenseInfo

func (res licenseOutput) Write(w io.Writer) error {
    tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
    fmt.Fprintf(tw, "Key:	Edition:	Used:	Total:
"
    for _, v := range res {
        fmt.Fprintf(tw, "%s	", v.LicenseKey)
        fmt.Fprintf(tw, "%s	", v.EditionKey)
        fmt.Fprintf(tw, "%d	", v.Used)
        fmt.Fprintf(tw, "%d	", v.Total)
        fmt.Fprintf(tw, "\n")
    }
    return tw.Flush()
}

#!/usr/bin/env bats
load test_helper

# These tests should only run against a server running an evaluation license.
verify_evaluation() {
    if [ "$(govic license ls -json | jq -r .[0].EditionKey)" != "eval" ]; then
skip "requires evaluation license"
fi

get_key() {
    jq ".[]. | select(.LicenseKey == "$1")"
}

get_property() {
    jq -r ".Properties[] | select(.Key == "$1") | .Value"
}

@test "license.add" {
    esx_env

    verify_evaluation

    run govc license.add -json 00000-00000-00000-00000-00001 00000-00000-00000-00000-00002
    assert_success

    # Expect to see an entry for both the first and the second key
    assert_equal "License is not valid for this product" "$(get_key 00000-00000-00000-00000-00001 <<<${output} | get_property diagnostic)"
    assert_equal "License is not valid for this product" "$(get_key 00000-00000-00000-00000-00002 <<<${output} | get_property diagnostic)"
}

@test "license.remove" {
    esx_env

    verify_evaluation

    run govc license.remove -json 00000-00000-00000-00000-00001
    assert_success
}

@test "license.ls" {
    vcsim_env

    verify_evaluation

    run govc license.ls -json
    assert_success

    # Expect the test instance to run in evaluation mode
    assert_equal "Evaluation Mode" "$(get_key 00000-00000-00000-00000-00000 <<<${output} jq ".Name")"
@test "license.decode" {
    esx_env

    verify_evaluation

    key=00000-00000-00000-00000-00000
    assert_equal "eval" $(govc license.decode $key | grep $key | awk '{print $2}')
}

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    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/types"
)

type AssignmentManager struct {
    object.Common
}

func (m AssignmentManager) QueryAssigned(ctx context.Context, id string) ([]types.LicenseAssignmentManagerLicenseAssignment, error) {
    req := types.QueryAssignedLicenses{
        This:     m.Reference(),
        EntityId: id,
    }
    res, err := methods.QueryAssignedLicenses(ctx, m.Client(), &req)
    if err != nil {
        return nil, err
    }
    return res.Returnval, nil
}

func (m AssignmentManager) Remove(ctx context.Context, id string) error {
    req := types.RemoveAssignedLicense{
        This:     m.Reference(),
        EntityId: id,
    }
    return nil
}
func (m AssignmentManager) Update(ctx context.Context, id string, key string, name string) (*types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateAssignedLicense{
        This:              m.Reference(),
        Entity:            id,
        LicenseKey:        key,
        EntityDisplayName: name,
    }

    res, err := methods.UpdateAssignedLicense(ctx, m.Client(), &req)
    if err != nil {
        return nil, err
    }

    return &res.Returnval, nil
}

1.996 go-jmespath 0.0.0-20180206201540-c2b33e8439af

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1.999 go-restful-swagger12 1.2

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1.1002 go-sockaddr 1.0.2

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1.1026 sqlite 3.28.0

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```
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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
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.

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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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.
2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

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

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

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

6. As an exception to the Sections above, you may also 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:

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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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensor cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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.

<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.

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
Ty Coon, President of Vice

That's all there is to it!
1.1049 jansson 2.9

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1.1050 glibc 2.26

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@subheading Preamble
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This license, the Lesser General Public License, applies to some specially designated software---typically libraries---of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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

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

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

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

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

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

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a
work based on the library” and a “work that uses the library”. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@item
This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called “this License”). Each licensee is addressed as “you”.

A “library” means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

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

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The modified work must itself be a software library.

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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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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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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.)
@end enumerate

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.

@item 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.

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

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

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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.

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  "testfiles": [
    "test/*.uts",
    "test/contrib/*.uts"
  ],
  "remove_testfiles": [
    "test/linux.uts",
    "test/windows.uts",
    "test/contrib/cansocket.native.uts",
    "test/contrib/cansocket.python.can.uts"
  ],
  "onlyfailed": true,
  "preexec": {
    "test/contrib/*.uts": "load_contrib("%name%")",
    "test/cert.uts": "load_layer("tls")",
    "test/sslv2.uts": "load_layer("tls")",
    "test/tls*.uts": "load_layer("tls")"
  },
  "format": "text",
  "kw_ko": [
    "linux",
    "windows",
    "crypto_advanced",
    "ipv6",
    "vcan_socket"
  ]
}```
1.1052 docker-libnetwork 0.5.6

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/
* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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M. Welsh, 6 July 1996

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1.1070 prometheus-procfs 0.1.3

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

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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 = -DPI

### Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
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,-Bs symbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%
$(COMPILE.c) $(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) $< \\
| sed 's/\$(^*)\\.o/:[^\^1].o $@ : /g'" > $@; \\
[ -s $@ ] || rm -f $@
%.
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$((SHELL)) -ec "$(GEN_DEPS.cc) $< \\
| sed 's/\$(^*)\\.o/:[^\^1].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

### 1.1073 go-hclog 0.15.0

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