Oracle Private Cloud Appliance

Licensing Information User Manual

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Preface

This publication is part of the customer documentation set for Oracle Private Cloud Appliance Release 3.0. Note that the documentation follows the release numbering scheme of the appliance software, not the hardware on which it is installed. All Oracle Private Cloud Appliance product documentation is available at https://docs.oracle.com/en/engineered-systems/private-cloud-appliance/index.html.

Oracle Private Cloud Appliance Release 3.x is a flexible general purpose Infrastructure as a Service solution, engineered for optimal performance and compatibility with Oracle Cloud Infrastructure. It allows customers to consume the core cloud services from the safety of their own network, behind their own firewall.

Audience

This documentation is intended for owners, administrators and operators of Oracle Private Cloud Appliance. It provides architectural and technical background information about the engineered system components and services, as well as instructions for installation, administration, monitoring and usage.

Oracle Private Cloud Appliance has two strictly separated operating areas, known as enclaves. The Compute Enclave offers a practically identical experience to Oracle Cloud Infrastructure: It allows users to build, configure and manage cloud workloads using compute instances and their associated cloud resources. The Service Enclave is where privileged administrators configure and manage the appliance infrastructure that provides the foundation for the cloud environment. The target audiences of these enclaves are distinct groups of users and administrators. Each enclave also provides its own separate interfaces.

It is assumed that readers have experience with system administration, network and storage configuration, and are familiar with virtualization technologies. Depending on the types of workloads deployed on the system, it is advisable to have a general understanding of container orchestration, and UNIX and Microsoft Windows operating systems.

Feedback

Provide feedback about this documentation at https://www.oracle.com/goto/docfeedback.

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.

Convention	Meaning
`monospace`	Monospace type indicates commands within a paragraph, code in examples, text that appears on the screen, or text that you enter.
`$` prompt	The dollar sign (`$`) prompt indicates a command run as a non-root user.
`#` prompt	The pound sign (`#`) prompt indicates a command run as the `root` user.

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2

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amqp-client 5.10.0

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Ansible 2.9.27

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ncurses-libs-5.9-14.20130511.el7_4.x86_64
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zlib-1.2.7-18.el7.x86_64
  * /usr/share/doc/zlib-1.2.7/README
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glibc-2.17-317.0.1.el7.x86_64
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/usr/share/doc/glibc-2.17/README
------------------------------
This directory contains the sources of the GNU C Library.
See the file "version.h" for what release version you have.
The GNU C Library is the standard system C library for all GNU systems,
and is an important part of what makes up a GNU system.  It provides the
system API for all programs written in C and C-compatible languages such
as C++ and Objective C; the runtime facilities of other programming
languages use the C library to access the underlying operating system.
In GNU/Linux systems, the C library works with the Linux kernel to
implement the operating system behavior seen by user applications.
```

```
In GNU/Hurd systems, it works with a microkernel and Hurd servers.
The GNU C Library implements much of the POSIX.1 functionality in the
GNU/Hurd system, using configurations i[34567]86-*-gnu.  The current
GNU/Hurd support requires out-of-tree patches that will eventually be
incorporated into an official GNU C Library release.
When working with Linux kernels, this version of the GNU C Library
requires Linux kernel version 2.6.16 or later.
Also note that the shared version of the libgcc_s library must be
installed for the pthread library to work correctly.
The GNU C Library supports these configurations for using Linux kernels:
    i[4567]86-*-linux-gnu
    x86_64-*-linux-gnu    Can build either x86_64 or x32
    powerpc-*-linux-gnu    Hardware floating point required
    powerpc64-*-linux-gnu
    s390-*-linux-gnu
    s390x-*-linux-gnu
    sh[34]-*-linux-gnu
    sparc*-*-linux-gnu
    sparc64*-*-linux-gnu
The code for other CPU configurations supported by volunteers outside of
the core glibc maintenance effort is contained in the `ports' add-on,
located in the `ports' subdirectory of the source tree.
    aarch64*-*-linux-gnu
    alpha*-*-linux-gnu
    am33*-*-linux-gnu    Not currently functional
    arm-*-linux-gnueabi
    hppa-*-linux-gnu    Not currently functional without patches.
    ia64-*-linux-gnu
    m68k-*-linux-gnu
    mips-*-linux-gnu
    mips64-*-linux-gnu
    powerpc-*-linux-gnu    Software floating point (--without-fp)
    tilegx-*-linux-gnu
    tilepro-*-linux-gnu
If you are interested in doing a port, please contact the glibc
maintainers; see http://www.gnu.org/software/libc/ for more
information.
See the file INSTALL to find out how to configure, build, and install
the GNU C Library.  You might also consider reading the WWW pages for
the C library at http://www.gnu.org/software/libc/.
The GNU C Library is (almost) completely documented by the Texinfo manual
found in the `manual/' subdirectory.  The manual is still being updated
and contains some known errors and omissions; we regret that we do not
have the resources to work on the manual as much as we would like.  For
corrections to the manual, please file a bug in the `manual' component,
following the bug-reporting instructions below.  Please be sure to check
the manual in the current development sources to see if your problem has
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derivative work of the Library even though the source code is not.
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cachetools

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```

certifi 2020.12.5

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

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $


https://hg.mozilla.org/mozilla-central/raw-file/tip/security/nss/lib/ckfw/builtins/
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certifi 2022.12.7

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

```
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(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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an Apache+mod_ssl webserver for SSL client authentication.
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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

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certifi 2023.5.7

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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:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.

```
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

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certifi 2024.12.14

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

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

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

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cmd2

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cryptography

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Cryptography 3.2.1-1.0.1

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github.com/opencontainers/go-digest
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2. gRPC
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4. tcmalloc
5. Perfetto
6. rules_foreign_cc (Rules for using foreign build systems in Bazel)
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# Id: Cookie.py,v 2.29 2000/08/23 05:28:49 timo Exp
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#
#  Cookie.py is a Python module for the handling of HTTP
#  cookies as a Python dictionary.  See RFC 2109 for more
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#
#  The original idea to treat Cookies as a dictionary came from
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#
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Fluentd 1.18.0

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backport from python3 Lib/test/support.py


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ha_cluster_exporter

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HAproxy

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Historically, haproxy has been covered by GPL version 2. However, an issue
appeared in GPL which will prevent external non-GPL code from being built
using the headers provided with haproxy. My long-term goal is to build a core
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Since some protocols are found in rare environments (finance, industry, ...),
some of them might be accessible only after signing an NDA. Enforcing GPL on
such modules would only prevent them from ever being implemented, while not
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For this reason, I *want* to be able to support binary only external modules
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============bazil.org/fuse

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File fuse_kernel.go:

// Derived from FUSE's fuse_kernel.h
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github.com/checkpoint-restore/go-criu/v5
github.com/cncf/udpa
github.com/cockroachdb/errors
github.com/cockroachdb/logtags
github.com/containerd/aufs
github.com/containerd/btrfs
github.com/containerd/go-cni
github.com/containerd/imgcrypt
github.com/containerd/nri
github.com/containerd/zfs
github.com/containernetworking/cni
github.com/containernetworking/plugins
github.com/containers/ocicrypt
github.com/coreos/go-iptables
github.com/distribution/distribution/
github.com/docker/docker
github.com/docker/go-events
github.com/docker/go-events
github.com/gomodule/redigo
github.com/google/shlex
github.com/mistifyio/go-zfs
github.com/moby/locker
github.com/moby/spdystream
github.com/moby/sys/mountinfo
github.com/moby/sys/symlink
github.com/mrunalp/fileutils
github.com/opencontainers/runtime-tools
github.com/opencontainers/selinux
github.com/safchain/ethtool
github.com/stefanberger/go-pkcs11uri
github.com/vishvananda/netlink
github.com/vishvananda/netns
go.opentelemetry.io/contrib
go.opentelemetry.io/contrib/instrumentation/net/http/otelhttp
go.opentelemetry.io/otel
go.opentelemetry.io/otel/exporters/otlp
go.opentelemetry.io/otel/metric
go.opentelemetry.io/otel/oteltest
go.opentelemetry.io/otel/sdk
go.opentelemetry.io/otel/sdk/export/metric
go.opentelemetry.io/otel/sdk/metric
go.opentelemetry.io/otel/trace
go.opentelemetry.io/proto/otlp
k8s.io/cri-api
k8s.io/kubernetes
oras.land/oras-go
github.com/oras-project/oras-go
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cloud.google.com/go
cloud.google.com/go/bigquery
cloud.google.com/go/datastore
cloud.google.com/go/firestore
cloud.google.com/go/pubsub
cloud.google.com/go/storage
github.com/Azure/go-autorest
github.com/Azure/go-autorest/autorest
github.com/Azure/go-autorest/autorest/adal
github.com/Azure/go-autorest/autorest/date
github.com/Azure/go-autorest/autorest/mocks
github.com/Azure/go-autorest/logger
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github.com/PuerkitoBio/url
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k8s.io/api
k8s.io/apiextensions-apiserver
k8s.io/apimachinery
k8s.io/apiserver
k8s.io/cli-runtime
k8s.io/client-go
k8s.io/code-generator
k8s.io/component-base
k8s.io/component-helpers
k8s.io/gengo
k8s.io/klog/v2
k8s.io/kube-openapi
k8s.io/kubectl
k8s.io/metrics
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github.com/google/martian
github.com/google/pprof
github.com/google/renameio
github.com/google/btreev
github.com/census-instrumentation/opencensus-proto
github.com/containerd/cgroups
github.com/containerd/containerd
github.com/containerd/continuity
github.com/containerd/fifo
github.com/containerd/go-run
github.com/containerd/ttrpc
github.com/containerd/typeurl
github.com/coreos/etcd
github.com/coreos/go-oidc
github.com/coreos/go-semver
github.com/coreos/go-systemd/v22
github.com/coreos/pkg
github.com/docker/cli
github.com/docker/distribution
github.com/docker/docker-credential-helpers
github.com/docker/go-connections
github.com/docker/go-metrics
github.com/docker/go-units
github.com/docker/libtrust
github.com/envoyproxy/go-control-plane
github.com/garyburd/redigo
github.com/go-ini/ini
github.com/go-logr/logr
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github.com/go-openapi/jsonpointer
github.com/go-openapi/jsonreference
github.com/go-openapi/spec
github.com/go-openapi/swag
github.com/gogo/googleapis
github.com/golang/glog
github.com/golang/groupcache
github.com/golang/mock
github.com/googleapis/gnostic
github.com/grpc-ecosystem/go-grpc-middleware
github.com/grpc-ecosystem/go-grpc-prometheus
github.com/jonboulle/clockwork
github.com/lyft/protoc-gen-validate
github.com/matttproud/golang_protobuf_extensions
github.com/moby/term
github.com/modern-go/concurrent
github.com/modern-go/reflect2
github.com/mwitkow/go-conntrack
github.com/oklog/ulid
github.com/opencontainers/go-digest
github.com/opencontainers/image-spec
github.com/opencontainers/runc
github.com/opencontainers/runtime-spec
github.com/opentracing/opentracing-go
github.com/pquerna/cachecontrol
github.com/prometheus/client_golang
github.com/prometheus/client_model
github.com/prometheus/common
github.com/prometheus/procfs
github.com/prometheus/tsdb
github.com/soheilhy/cmux
github.com/spf13/afero
github.com/spf13/cobra
github.com/xeipuuv/gojsonpointer
github.com/xeipuuv/gojsonreference
github.com/xeipuuv/gojsonschema
go.etcd.io/etcd
go.opencensus.io
github.com/golang/appengine
github.com/golang/genproto
github.com/golang/grpc
github.com/golang/protobuf
sigs.k8s.io/apiserver-network-proxy/konnectivity-client
sigs.k8s.io/kustomize
sigs.k8s.io/kustomize/api
sigs.k8s.io/kustomize/cmd/config
sigs.k8s.io/kustomize/kustomize/v4
sigs.k8s.io/kustomize/kyaml
sigs.k8s.io/structured-merge-diff/v4
sigs.k8s.io/yaml

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rsc.io/letsencrypt

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github.com/willf/bitset
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github.com/cyphar/filepath-securejoin
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github.com/elazarl/goproxy
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github.com/evanphx/json-patch
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gopkg.in/gemnasium/logrus-airbrake-hook.v2

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github.com/stoewer/go-strcase
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github.com/niemeyer/pretty

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github.com/j-keck/arping

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github.com/josharian/intern

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github.com/Masterminds/sprig

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github.com/alexflint/go-filemutex

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github.com/antihax/optional

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github.com/benbjohnson/clock

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github.com/buger/jsonparser

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github.com/frankban/quicktest

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go.mozilla.org/pkcs7
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github.com/fullsailor/pkcs7

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github.com/Azure/azure-sdk-for-go

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github.com/Azure/go-ansiterm
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github.com/Microsoft/hcsshim

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github.com/armon/circbuf

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github.com/beorn7/perks

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github.com/bitly/go-simplejson

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github.com/blang/semver

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github.com/bshuster-repo/logrus-logstash-hook

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github.com/bugsnag/panicwrap

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github.com/cespare/xxhash

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github.com/cilium/ebpf

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github.com/client9/misspell

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github.com/coreos/bbolt

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github.com/creack/pty

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github.com/dgrijalva/jwt-go

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github.com/emicklei/go-restful

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github.com/exponent-io/jsonpath

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github.com/fatih/camelcase

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====================github.com/Masterminds/vcs

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==========github.com/bgentry/speakeasy

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github.com/google/go-cmp

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github.com/google/uuid

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github.com/kortschak/utter
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github.com/dnaeon/go-vcr

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github.com/dustin/go-humanize

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github.com/fvbommel/sortorder

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github.com/ghodss/yaml

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github.com/go-kit/kit

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github.com/go-logfmt/logfmt

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github.com/gobuffalo/logger

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github.com/gobuffalo/packd
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github.com/gobuffalo/packr

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github.com/gobwas/glob

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github.com/pkg/sftp

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github.com/syndtr/gocapability
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github.com/seccomp/libseccomp-golang
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github.com/godbus/dbus

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github.com/karrick/godirwalk
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github.com/klauspost/compress
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github.com/godror/godror

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v0.4.0
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github.com/gofrs/flock

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github.com/getsentry/raven-go

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Protocol Buffers for Go with Gadgets

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

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github.com/gorilla/handlers

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github.com/markbates/errx

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github.com/gregjones/httpcache

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github.com/go-errors/errors

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github.com/go-kit/log
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github.com/kisielk/gotool
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github.com/mattn/go-oci8

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github.com/ncw/swift

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github.com/fatih/color
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levels of API: source level and bytecode level. If the users use the source-
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Jackson Core

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers.

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jackson-module-jaxb-annotations

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jackson-module-jaxb-annotations 2.9.9

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JavaScript Extension Toolkit (JET) 10.1.0

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webcomponents/custom-elements - v1.1.2

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RequireJS i18n 2.0.2

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http://github.com/requirejs/i18n for details
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JS Signals <http://millermedeiros.github.com/js-signals/>
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RequireJS text 2.0.15
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JavaScript Extension Toolkit (JET) 15.1.4

Oracle JET 15.1.4

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jersey-client

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jersey-media-json-jackson

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--------------------------------------------------------------------------------
----
    Fourth party dependencies
    -------------------------
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    #02    java:com.fasterxml.jackson.core:jackson-databind [Apache 2.0]
    #03    com.fasterxml.jackson.core:jackson-annotations     [Apache 2.0]
    #04    com.fasterxml.jackson.core:jackson-core     [Apache 2.0]
    #05    com.fasterxml.jackson.module:jackson-module-jakarta-xmlbind-annotations
[Apache 2.0]
    #06    com.fasterxml.jackson.core:jackson-core    [Apache 2.0]
    #07    jakarta.activation:jakarta.activation-api    [EDL 1.0]
    #08    jakarta.xml.bind:jakarta.xml.bind-api     [EDL 1.0]
    #09    java:org.glassfish.jersey.core:jersey-common[EPL 2.0 + GPL v.2 with CPE]
    #10    jakarta.annotation:jakarta.annotation-api    [EPL 2.0 + GPL v.2 with CPE]
    #11    jakarta.inject:jakarta.inject-api    [Apache 2.0]
    #12    jakarta.ws.rs:jakarta.ws.rs-api        [EPL 2.0 + GPL v.2 with CPE]
    #13    org.glassfish.hk2:osgi-resource-locator [EPL 2.0 + GPL v.2 with CPE]
    #14    org.osgi:osgi.core                     [Apache 2.0]
    #14    org.osgi:osgi.cmpn                     [Apache 2.0]
    #15    java:org.glassfish.jersey.ext:jersey-entity-filtering [EPL 2.0 + GPL v.2 with
CPE]
--------------------------------------------------------------------------------
----
    Notices for #01 Jackson Annotations to #06 Jackson Core
    -------------------------------------------------------
    # Jackson JSON processor

    Jackson is a high-performance, Free/Open Source JSON processing library.
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    It is currently developed by a community of developers.

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    normalize.css (3.0.2)

    License: MIT
    SigTest (n/a)
```

```
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```
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    https://github.com/eclipse-ee4j/injection-api https://github.com/eclipse-ee4j/
injection-spec https://github.com/eclipse-ee4j/injection-tck

    Third-party Content
    This project leverages the following third party content.

    None

    Cryptography
    None

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

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kube-state-metrics 2.4.2

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k8s.io/kube-state-metrics/v2

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github.com/imdario/mergo
github.com/spf13/pflag
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http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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       Based on the stylesheet for extracting Schematron information from
       W3C XML Schema.
       Created by Eddie Robertsson 2002/06/01
       2009/12/10    hj: changed Schematron namespace to ISO URI (Holger Joukl)

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XSD2Schtrn.xsl:
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       based on an original transform by Eddie Robertsson
       2001/04/21    fn: added support for included schemas
       2001/06/27    er: changed XMl Schema prefix from xsd: to xs: and
                     changed to the Rec namespace
       2009/12/10    hj: changed Schematron namespace to ISO URI (Holger Joukl)
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// ------------------------------------------------------------------
// Transitive dependencies of this project determined from the
// maven pom organized by organization.
// ------------------------------------------------------------------

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From: 'QOS.ch' (http://www.qos.ch)
  - JCL 1.2 implemented over SLF4J (http://www.slf4j.org) org.slf4j:jcl-over-
slf4j:jar:1.7.32
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From: 'Simple Logging Facade for Java' (https://www.slf4j.org/)
  - SLF4J API Module (http://www.slf4j.org/slf4j-api) org.slf4j:slf4j-
api:jar:1.7.32:compile
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mysqld_exporter

```
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github.com/prometheus/client_model/go    0.14.0    Apache 2.0
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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

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

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

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

All Python releases are Open Source (see https://opensource.org for
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's
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# Jackson JSON processor

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jakarta.ws.rs-api

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Source Code

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jakarta.validation-api

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OCI SDK for Java 3.17.1

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jackson-annotations
jackson-core
jackson-databind
jackson-jaxrs-base
jackson-datatype-jsr310
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jackson-module-jaxb-annotations

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
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jakarta.ws.rs-api

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OCI SDK for Python 2.133.0

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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
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    be optional: if the application does not supply it, the square
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github.com/gorilla/mux
github.com/imdario/mergo
github.com/miekg/dns
github.com/spf13/pflag
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golang.org/x/oauth2
golang.org/x/sys
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golang.org/x/time
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Open vSwitch 2.17.7

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        build-aux/cccl

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        lib/getopt_long.c
        include/windows/getopt.h
        datapath-windows/ovsext/Conntrack-tcp.c
        lib/conntrack-tcp.c

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        include/windows/netinet/icmp6.h
        include/windows/netinet/ip6.h
        lib/strsep.c

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        datapath/linux/compat/include/linux/openvswitch.h

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        lib/sflow.h
        lib/sflow_agent.c
        lib/sflow_api.h
        lib/sflow_poller.c
        lib/sflow_receiver.c
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        lib/crc32c.c

* lib/ovs.tmac in the source distribution, and manpages in the
  binaries, includes troff macros from groff 1.21 that contain the
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    .\" an-ext.tmac
    .\"
    .\" Written by Eric S. Raymond <esr@thyrsus.com>
    .\"            Werner Lemberg <wl@gnu.org>
    .\"
    .\" Version 2007-Feb-02
    .\"
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* m4/absolute-header.m4, by Derek Price, and m4/include_next.m4, by
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    lib/lldp/lldpd.c
    lib/lldp/lldpd.h
    lib/lldp/lldpd-structs.c
    lib/lldp/lldpd-structs.h
    lib/lldp/lldp.c
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References

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That's all there is to it!

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Dependency:
==================

---------separator---------
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./tc/m_ctinfo.c: * Copyright (c) 2019 Kevin Darbyshire-Bryant <ldir@darbyshire-
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-------------
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===============
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 ============
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 * $Id$
 */

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 =====
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/*
 * linux/can.h
 *
 * Definitions for CAN network layer (socket addr / CAN frame / CAN filter)
 *
 * Authors: Oliver Hartkopp <oliver.hartkopp@volkswagen.de>
 *          Urs Thuermann   <urs.thuermann@volkswagen.de>
```

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 *
 *    @(#)tcp.h    8.1 (Berkeley) 6/10/93
 */

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=============
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OVN (Open Virtual Network) 22.03.2

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ovs (Python)

```
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pycparser -- A C parser in Python

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Prometheus Python Client 0.9.0

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PyJWT 2.3.0

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pyserial

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```

Python 2.7.5-92.0.1

```
A. HISTORY OF THE SOFTWARE
==========================

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

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

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

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

    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)

    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.2             2.1.1       2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
    2.2.1           2.2         2002        PSF         yes
    2.2.2           2.2.1       2002        PSF         yes
```

2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
the GPL. All Python licenses, unlike the GPL, let you distribute
a modified version without making your changes open source. The
GPL-compatible licenses make it possible to combine Python with
other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
because its license has a choice of law clause. According to
CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
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README File
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============================

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What's new in this release?
---------------------------

See the file "Misc/NEWS".


If you don't read instructions
------------------------------

Congratulations on getting this far. :-)

To start building right away (on UNIX): type "./configure" in the
current directory and when it finishes, type "make".  This creates an
executable "./python"; to install in /usr/local, first do "su root"
and then "make install".

The section `Build instructions' below is still recommended reading.


What is Python anyway?
----------------------

Python is an interpreted, interactive object-oriented programming
language suitable (amongst other uses) for distributed application
development, scripting, numeric computing and system testing.  Python
is often compared to Tcl, Perl, Java, JavaScript, Visual Basic or
Scheme.  To find out more about what Python can do for you, point your
browser to http://www.python.org/.


How do I learn Python?
----------------------

The official tutorial is still a good place to start; see
http://docs.python.org/ for online and downloadable versions, as well
as a list of other introductions, and reference documentation.
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There's a quickly growing set of books on Python.  See
http://wiki.python.org/moin/PythonBooks for a list.


Documentation
-------------

All documentation is provided online in a variety of formats.  In
order of importance for new users: Tutorial, Library Reference,
Language Reference, Extending & Embedding, and the Python/C API.  The
Library Reference is especially of immense value since much of
Python's power is described there, including the built-in data types
and functions!

All documentation is also available online at the Python web site
(http://docs.python.org/, see below).  It is available online for occasional
reference, or can be downloaded in many formats for faster access.  The
documentation is downloadable in HTML, PostScript, PDF, LaTeX, and
reStructuredText (2.6+) formats; the LaTeX and reStructuredText versions are
primarily for documentation authors, translators, and people with special
formatting requirements.


Web sites
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New Python releases and related technologies are published at
http://www.python.org/.  Come visit us!


Newsgroups and Mailing Lists
----------------------------

Read comp.lang.python, a high-volume discussion newsgroup about
Python, or comp.lang.python.announce, a low-volume moderated newsgroup
for Python-related announcements.  These are also accessible as
mailing lists: see http://www.python.org/community/lists/ for an
overview of these and many other Python-related mailing lists.

Archives are accessible via the Google Groups Usenet archive; see
http://groups.google.com/.  The mailing lists are also archived, see
http://www.python.org/community/lists/ for details.


Bug reports
-----------

To report or search for bugs, please use the Python Bug
Tracker at http://bugs.python.org/.


Patches and contributions
-------------------------

To submit a patch or other contribution, please use the Python Patch
Manager at http://bugs.python.org/.  Guidelines
for patch submission may be found at http://www.python.org/dev/patches/.

If you have a proposal to change Python, you may want to send an email to the
comp.lang.python or python-ideas mailing lists for inital feedback. A Python
Enhancement Proposal (PEP) may be submitted if your idea gains ground. All
current PEPs, as well as guidelines for submitting a new PEP, are listed at
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http://www.python.org/dev/peps/.


Questions
---------

For help, if you can't find it in the manuals or on the web site, it's
best to post to the comp.lang.python or the Python mailing list (see
above).  If you specifically don't want to involve the newsgroup or
mailing list, send questions to help@python.org (a group of volunteers
who answer questions as they can).  The newsgroup is the most
efficient way to ask public questions.


Build instructions
==================

Before you can build Python, you must first configure it.
Fortunately, the configuration and build process has been automated
for Unix and Linux installations, so all you usually have to do is
type a few commands and sit back.  There are some platforms where
things are not quite as smooth; see the platform specific notes below.
If you want to build for multiple platforms sharing the same source
tree, see the section on VPATH below.

Start by running the script "./configure", which determines your
system configuration and creates the Makefile.  (It takes a minute or
two -- please be patient!)  You may want to pass options to the
configure script -- see the section below on configuration options and
variables.  When it's done, you are ready to run make.

To build Python, you normally type "make" in the toplevel directory.
If you have changed the configuration, the Makefile may have to be
rebuilt.  In this case, you may have to run make again to correctly
build your desired target.  The interpreter executable is built in the
top level directory.

Once you have built a Python interpreter, see the subsections below on
testing and installation.  If you run into trouble, see the next
section.

Previous versions of Python used a manual configuration process that
involved editing the file Modules/Setup.  While this file still exists
and manual configuration is still supported, it is rarely needed any
more: almost all modules are automatically built as appropriate under
guidance of the setup.py script, which is run by Make after the
interpreter has been built.


Troubleshooting
---------------

See also the platform specific notes in the next section.

If you run into other trouble, see the FAQ
(http://www.python.org/doc/faq/) for hints on what can go wrong, and
how to fix it.

If you rerun the configure script with different options, remove all
object files by running "make clean" before rebuilding.  Believe it or
not, "make clean" sometimes helps to clean up other inexplicable
problems as well.  Try it before sending in a bug report!
```

```
If the configure script fails or doesn't seem to find things that
should be there, inspect the config.log file.

If you get a warning for every file about the -Olimit option being no
longer supported, you can ignore it.  There's no foolproof way to know
whether this option is needed; all we can do is test whether it is
accepted without error.  On some systems, e.g. older SGI compilers, it
is essential for performance (specifically when compiling ceval.c,
which has more basic blocks than the default limit of 1000).  If the
warning bothers you, edit the Makefile to remove "-Olimit 1500" from
the OPT variable.

If you get failures in test_long, or sys.maxint gets set to -1, you
are probably experiencing compiler bugs, usually related to
optimization.  This is a common problem with some versions of gcc, and
some vendor-supplied compilers, which can sometimes be worked around
by turning off optimization.  Consider switching to stable versions
(gcc 2.95.2, gcc 3.x, or contact your vendor.)

From Python 2.0 onward, all Python C code is ANSI C.  Compiling using
old K&R-C-only compilers is no longer possible.  ANSI C compilers are
available for all modern systems, either in the form of updated
compilers from the vendor, or one of the free compilers (gcc).

If "make install" fails mysteriously during the "compiling the library"
step, make sure that you don't have any of the PYTHONPATH or PYTHONHOME
environment variables set, as they may interfere with the newly built
executable which is compiling the library.

Unsupported systems
-------------------

A number of systems are not supported in Python 2.7 anymore. Some
support code is still present, but will be removed in later versions.
If you still need to use current Python versions on these systems,
please send a message to python-dev@python.org indicating that you
volunteer to support this system. For a more detailed discussion
regarding no-longer-supported and resupporting platforms, as well
as a list of platforms that became or will be unsupported, see PEP 11.

More specifically, the following systems are not supported any
longer:
- SunOS 4
- DYNIX
- dgux
- Minix
- NeXT
- Irix 4 and --with-sgi-dl
- Linux 1
- Systems defining __d6_pthread_create (configure.ac)
- Systems defining PY_PTHREAD_D4, PY_PTHREAD_D6,
  or PY_PTHREAD_D7 in thread_pthread.h
- Systems using --with-dl-dld
- Systems using --without-universal-newlines
- MacOS 9
- Systems using --with-wctype-functions
- Win9x, WinME


Platform specific notes
-----------------------
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```
(Some of these may no longer apply.  If you find you can build Python
on these platforms without the special directions mentioned here,
submit a documentation bug report to SourceForge (see Bug Reports
above) so we can remove them!)

Unix platforms: If your vendor still ships (and you still use) Berkeley DB
        1.85 you will need to edit Modules/Setup to build the bsddb185
        module and add a line to sitecustomize.py which makes it the
        default.  In Modules/Setup a line like

            bsddb185 bsddbmodule.c

        should work.  (You may need to add -I, -L or -l flags to direct the
        compiler and linker to your include files and libraries.)

XXX I think this next bit is out of date:

64-bit platforms: The modules audioop, and imageop don't work.
        The setup.py script disables them on 64-bit installations.
        Don't try to enable them in the Modules/Setup file.  They
        contain code that is quite wordsize sensitive.  (If you have a
        fix, let us know!)

Solaris: When using Sun's C compiler with threads, at least on Solaris
        2.5.1, you need to add the "-mt" compiler option (the simplest
        way is probably to specify the compiler with this option as
        the "CC" environment variable when running the configure
        script).

        When using GCC on Solaris, beware of binutils 2.13 or GCC
        versions built using it.  This mistakenly enables the
        -zcombreloc option which creates broken shared libraries on
        Solaris.  binutils 2.12 works, and the binutils maintainers
        are aware of the problem.  Binutils 2.13.1 only partially
        fixed things.  It appears that 2.13.2 solves the problem
        completely.  This problem is known to occur with Solaris 2.7
        and 2.8, but may also affect earlier and later versions of the
        OS.

        When the dynamic loader complains about errors finding shared
        libraries, such as

        ld.so.1: ./python: fatal: libstdc++.so.5: open failed:
        No such file or directory

        you need to first make sure that the library is available on
        your system. Then, you need to instruct the dynamic loader how
        to find it. You can choose any of the following strategies:

        1. When compiling Python, set LD_RUN_PATH to the directories
           containing missing libraries.
        2. When running Python, set LD_LIBRARY_PATH to these directories.
        3. Use crle(8) to extend the search path of the loader.
        4. Modify the installed GCC specs file, adding -R options into the
           *link: section.

        The complex object fails to compile on Solaris 10 with gcc 3.4 (at
        least up to 3.4.3).  To work around it, define Py_HUGE_VAL as
        HUGE_VAL(), e.g.:

          make CPPFLAGS='-D"Py_HUGE_VAL=HUGE_VAL()" -I. -I$(srcdir)/Include'
```

```
          ./python setup.py CPPFLAGS='-D"Py_HUGE_VAL=HUGE_VAL()"'

Linux:  A problem with threads and fork() was tracked down to a bug in
        the pthreads code in glibc version 2.0.5; glibc version 2.0.7
        solves the problem.  This causes the popen2 test to fail;
        problem and solution reported by Pablo Bleyer.

Red Hat Linux: Red Hat 9 built Python2.2 in UCS-4 mode and hacked
        Tcl to support it. To compile Python2.3 with Tkinter, you will
        need to pass --enable-unicode=ucs4 flag to ./configure.

        There's an executable /usr/bin/python which is Python
        1.5.2 on most older Red Hat installations; several key Red Hat tools
        require this version.  Python 2.1.x may be installed as
        /usr/bin/python2.  The Makefile installs Python as
        /usr/local/bin/python, which may or may not take precedence
        over /usr/bin/python, depending on how you have set up $PATH.

FreeBSD 3.x and probably platforms with NCurses that use libmytinfo or
        similar: When using cursesmodule, the linking is not done in
        the correct order with the defaults.  Remove "-ltermcap" from
        the readline entry in Setup, and use as curses entry: "curses
        cursesmodule.c -lmytinfo -lncurses -ltermcap" - "mytinfo" (so
        called on FreeBSD) should be the name of the auxiliary library
        required on your platform.  Normally, it would be linked
        automatically, but not necessarily in the correct order.

BSDI:   BSDI versions before 4.1 have known problems with threads,
        which can cause strange errors in a number of modules (for
        instance, the 'test_signal' test script will hang forever.)
        Turning off threads (with --with-threads=no) or upgrading to
        BSDI 4.1 solves this problem.

DEC Unix: Run configure with --with-dec-threads, or with
        --with-threads=no if no threads are desired (threads are on by
        default).  When using GCC, it is possible to get an internal
        compiler error if optimization is used.  This was reported for
        GCC 2.7.2.3 on selectmodule.c.  Manually compile the affected
        file without optimization to solve the problem.

DEC Ultrix: compile with GCC to avoid bugs in the native compiler,
        and pass SHELL=/bin/sh5 to Make when installing.

AIX:    A complete overhaul of the shared library support is now in
        place.  See Misc/AIX-NOTES for some notes on how it's done.
        (The optimizer bug reported at this place in previous releases
        has been worked around by a minimal code change.) If you get
        errors about pthread_* functions, during compile or during
        testing, try setting CC to a thread-safe (reentrant) compiler,
        like "cc_r".  For full C++ module support, set CC="xlC_r" (or
        CC="xlC" without thread support).

AIX 5.3: To build a 64-bit version with IBM's compiler, I used the
        following:

        export PATH=/usr/bin:/usr/vacpp/bin
        ./configure --with-gcc="xlc_r -q64" --with-cxx="xlC_r -q64" \
                    --disable-ipv6 AR="ar -X64"
        make

HP-UX:  When using threading, you may have to add -D_REENTRANT to the
        OPT variable in the top-level Makefile; reported by Pat Knight,
```

```
        this seems to make a difference (at least for HP-UX 10.20)
        even though pyconfig.h defines it. This seems unnecessary when
        using HP/UX 11 and later - threading seems to work "out of the
        box".

HP-UX ia64: When building on the ia64 (Itanium) platform using HP's
        compiler, some experience has shown that the compiler's
        optimiser produces a completely broken version of python
        (see http://bugs.python.org/814976). To work around this,
        edit the Makefile and remove -O from the OPT line.

        To build a 64-bit executable on an Itanium 2 system using HP's
        compiler, use these environment variables:

                CC=cc
                CXX=aCC
                BASECFLAGS="+DD64"
                LDFLAGS="+DD64 -lxnet"

        and call configure as:

                ./configure --without-gcc

        then *unset* the environment variables again before running
        make.  (At least one of these flags causes the build to fail
        if it remains set.)  You still have to edit the Makefile and
        remove -O from the OPT line.

HP PA-RISC 2.0: A recent bug report (http://bugs.python.org/546117)
        suggests that the C compiler in this 64-bit system has bugs
        in the optimizer that break Python.  Compiling without
        optimization solves the problems.

SCO:    The following apply to SCO 3 only; Python builds out of the box
        on SCO 5 (or so we've heard).

        1) Everything works much better if you add -U__STDC__ to the
        defs.  This is because all the SCO header files are broken.
        Anything that isn't mentioned in the C standard is
        conditionally excluded when __STDC__ is defined.

        2) Due to the U.S. export restrictions, SCO broke the crypt
        stuff out into a separate library, libcrypt_i.a so the LIBS
        needed be set to:

                LIBS=' -lsocket -lcrypt_i'

UnixWare: There are known bugs in the math library of the system, as well as
        problems in the handling of threads (calling fork in one
        thread may interrupt system calls in others). Therefore, test_math and
        tests involving threads will fail until those problems are fixed.

QNX:    Chris Herborth (chrish@qnx.com) writes:
        configure works best if you use GNU bash; a port is available on
        ftp.qnx.com in /usr/free.  I used the following process to build,
        test and install Python 1.5.x under QNX:

        1) CONFIG_SHELL=/usr/local/bin/bash CC=cc RANLIB=: \
            ./configure --verbose --without-gcc --with-libm=""

        2) edit Modules/Setup to activate everything that makes sense for
           your system... tested here at QNX with the following modules:
```

```
                array, audioop, binascii, cPickle, cStringIO, cmath,
                crypt, curses, errno, fcntl, gdbm, grp, imageop,
                _locale, math, md5, new, operator, parser, pcre,
                posix, pwd, readline, regex, reop,
                select, signal, socket, soundex, strop, struct,
                syslog, termios, time, timing, zlib, audioop, imageop

        3) make SHELL=/usr/local/bin/bash

           or, if you feel the need for speed:

           make SHELL=/usr/local/bin/bash OPT="-5 -Oil+nrt"

        4) make SHELL=/usr/local/bin/bash test

           Using GNU readline 2.2 seems to behave strangely, but I
           think that's a problem with my readline 2.2 port.  :-\

        5) make SHELL=/usr/local/bin/bash install

        If you get SIGSEGVs while running Python (I haven't yet, but
        I've only run small programs and the test cases), you're
        probably running out of stack; the default 32k could be a
        little tight.  To increase the stack size, edit the Makefile
        to read: LDFLAGS = -N 48k

BeOS:   See Misc/BeOS-NOTES for notes about compiling/installing
        Python on BeOS R3 or later.  Note that only the PowerPC
        platform is supported for R3; both PowerPC and x86 are
        supported for R4.

Cray T3E: Mark Hadfield (m.hadfield@niwa.co.nz) writes:
        Python can be built satisfactorily on a Cray T3E but based on
        my experience with the NIWA T3E (2002-05-22, version 2.2.1)
        there are a few bugs and gotchas. For more information see a
        thread on comp.lang.python in May 2002 entitled "Building
        Python on Cray T3E".

        1) Use Cray's cc and not gcc. The latter was reported not to
           work by Konrad Hinsen. It may work now, but it may not.

        2) To set sys.platform to something sensible, pass the
           following environment variable to the configure script:

             MACHDEP=unicosmk

        2) Run configure with option "--enable-unicode=ucs4".

        3) The Cray T3E does not support dynamic linking, so extension
           modules have to be built by adding (or uncommenting) lines
           in Modules/Setup. The minimum set of modules is

             posix, new, _sre, unicodedata

           On NIWA's vanilla T3E system the following have also been
           included successfully:

             _codecs, _locale, _socket, _symtable, _testcapi, _weakref
             array, binascii, cmath, cPickle, crypt, cStringIO, dbm
             errno, fcntl, grp, math, md5, operator, parser, pcre, pwd
             regex, rotor, select, struct, strop, syslog, termios
```

```
            time, timing, xreadlines

        4) Once the python executable and library have been built, make
           will execute setup.py, which will attempt to build remaining
           extensions and link them dynamically. Each of these attempts
           will fail but should not halt the make process. This is
           normal.

        5) Running "make test" uses a lot of resources and causes
           problems on our system. You might want to try running tests
           singly or in small groups.

SGI:    SGI's standard "make" utility (/bin/make or /usr/bin/make)
        does not check whether a command actually changed the file it
        is supposed to build.  This means that whenever you say "make"
        it will redo the link step.  The remedy is to use SGI's much
        smarter "smake" utility (/usr/sbin/smake), or GNU make.  If
        you set the first line of the Makefile to #!/usr/sbin/smake
        smake will be invoked by make (likewise for GNU make).

        WARNING: There are bugs in the optimizer of some versions of
        SGI's compilers that can cause bus errors or other strange
        behavior, especially on numerical operations.  To avoid this,
        try building with "make OPT=".

OS/2:   If you are running Warp3 or Warp4 and have IBM's VisualAge C/C++
        compiler installed, just change into the pc\os2vacpp directory
        and type NMAKE.  Threading and sockets are supported by default
        in the resulting binaries of PYTHON15.DLL and PYTHON.EXE.

Reliant UNIX: The thread support does not compile on Reliant UNIX, and
        there is a (minor) problem in the configure script for that
        platform as well.  This should be resolved in time for a
        future release.

MacOSX: The tests will crash on both 10.1 and 10.2 with SEGV in
        test_re and test_sre due to the small default stack size.  If
        you set the stack size to 2048 before doing a "make test" the
        failure can be avoided.  If you're using the tcsh or csh shells,
        use "limit stacksize 2048" and for the bash shell (the default
        as of OSX 10.3), use "ulimit -s 2048".

        On naked Darwin you may want to add the configure option
        "--disable-toolbox-glue" to disable the glue code for the Carbon
        interface modules. The modules themselves are currently only built
        if you add the --enable-framework option, see below.

        On a clean OSX /usr/local does not exist. Do a
        "sudo mkdir -m 775 /usr/local"
        before you do a make install. It is probably not a good idea to
        do "sudo make install" which installs everything as superuser,
        as this may later cause problems when installing distutils-based
        additions.

        Some people have reported problems building Python after using "fink"
        to install additional unix software. Disabling fink (remove all
        references to /sw from your .profile or .login) should solve this.

        You may want to try the configure option "--enable-framework"
        which installs Python as a framework. The location can be set
        as argument to the --enable-framework option (default
        /Library/Frameworks). A framework install is probably needed if you
```

```
        want to use any Aqua-based GUI toolkit (whether Tkinter, wxPython,
        Carbon, Cocoa or anything else).

        You may also want to try the configure option "--enable-universalsdk"
        which builds Python as a universal binary with support for the
        i386 and PPC architetures. This requires Xcode 2.1 or later to build.

        See Mac/README for more information on framework and
        universal builds.

Cygwin: With recent (relative to the time of writing, 2001-12-19)
        Cygwin installations, there are problems with the interaction
        of dynamic linking and fork().  This manifests itself in build
        failures during the execution of setup.py.

        There are two workarounds that both enable Python (albeit
        without threading support) to build and pass all tests on
        NT/2000 (and most likely XP as well, though reports of testing
        on XP would be appreciated).

        The workarounds:

        (a) the band-aid fix is to link the _socket module statically
        rather than dynamically (which is the default).

        To do this, run "./configure --with-threads=no" including any
        other options you need (--prefix, etc.).  Then in Modules/Setup
        uncomment the lines:

        #SSL=/usr/local/ssl
        #_socket socketmodule.c \
        #       -DUSE_SSL -I$(SSL)/include -I$(SSL)/include/openssl \
        #       -L$(SSL)/lib -lssl -lcrypto

        and remove "local/" from the SSL variable.  Finally, just run
        "make"!

        (b) The "proper" fix is to rebase the Cygwin DLLs to prevent
        base address conflicts.  Details on how to do this can be
        found in the following mail:

           http://sources.redhat.com/ml/cygwin/2001-12/msg00894.html

        It is hoped that a version of this solution will be
        incorporated into the Cygwin distribution fairly soon.

        Two additional problems:

        (1) Threading support should still be disabled due to a known
        bug in Cygwin pthreads that causes test_threadedtempfile to
        hang.

        (2) The _curses module does not build.  This is a known
        Cygwin ncurses problem that should be resolved the next time
        that this package is released.

        On older versions of Cygwin, test_poll may hang and test_strftime
        may fail.

        The situation on 9X/Me is not accurately known at present.
        Some time ago, there were reports that the following
        regression tests failed:
```

```
            test_pwd
            test_select (hang)
            test_socket

        Due to the test_select hang on 9X/Me, one should run the
        regression test using the following:

            make TESTOPTS='-l -x test_select' test

        News regarding these platforms with more recent Cygwin
        versions would be appreciated!

Windows: When executing Python scripts on the command line using file type
        associations (i.e. starting "script.py" instead of "python script.py"),
        redirects may not work unless you set a specific registry key.  See
        the Knowledge Base article <http://support.microsoft.com/kb/321788>.


Configuring the bsddb and dbm modules
-------------------------------------

Beginning with Python version 2.3, the PyBsddb package
<http://pybsddb.sf.net/> was adopted into Python as the bsddb package,
exposing a set of package-level functions which provide
backwards-compatible behavior.  Only versions 3.3 through 4.4 of
Sleepycat's libraries provide the necessary API, so older versions
aren't supported through this interface.  The old bsddb module has
been retained as bsddb185, though it is not built by default.  Users
wishing to use it will have to tweak Modules/Setup to build it.  The
dbm module will still be built against the Sleepycat libraries if
other preferred alternatives (ndbm, gdbm) are not found.

Building the sqlite3 module
---------------------------

To build the sqlite3 module, you'll need the sqlite3 or libsqlite3
packages installed, including the header files. Many modern operating
systems distribute the headers in a separate package to the library -
often it will be the same name as the main package, but with a -dev or
-devel suffix.

The version of pysqlite2 that's including in Python needs sqlite3 3.0.8
or later. setup.py attempts to check that it can find a correct version.

Configuring threads
-------------------

As of Python 2.0, threads are enabled by default.  If you wish to
compile without threads, or if your thread support is broken, pass the
--with-threads=no switch to configure.  Unfortunately, on some
platforms, additional compiler and/or linker options are required for
threads to work properly.  Below is a table of those options,
collected by Bill Janssen.  We would love to automate this process
more, but the information below is not enough to write a patch for the
configure.ac file, so manual intervention is required.  If you patch
the configure.ac file and are confident that the patch works, please
send in the patch.  (Don't bother patching the configure script itself
-- it is regenerated each time the configure.ac file changes.)

Compiler switches for threads
.............................
```

```
The definition of _REENTRANT should be configured automatically, if
that does not work on your system, or if _REENTRANT is defined
incorrectly, please report that as a bug.

    OS/Compiler/threads                     Switches for use with threads
    (POSIX is draft 10, DCE is draft 4)     compile & link

    SunOS 5.{1-5}/{gcc,SunPro cc}/solaris   -mt
    SunOS 5.5/{gcc,SunPro cc}/POSIX         (nothing)
    DEC OSF/1 3.x/cc/DCE                    -threads
            (butenhof@zko.dec.com)
    Digital UNIX 4.x/cc/DCE                 -threads
            (butenhof@zko.dec.com)
    Digital UNIX 4.x/cc/POSIX               -pthread
            (butenhof@zko.dec.com)
    AIX 4.1.4/cc_r/d7                       (nothing)
            (buhrt@iquest.net)
    AIX 4.1.4/cc_r4/DCE                     (nothing)
            (buhrt@iquest.net)
    IRIX 6.2/cc/POSIX                       (nothing)
            (robertl@cwi.nl)


Linker (ld) libraries and flags for threads
.........................................

    OS/threads                          Libraries/switches for use with threads

    SunOS 5.{1-5}/solaris               -lthread
    SunOS 5.5/POSIX                     -lpthread
    DEC OSF/1 3.x/DCE                   -lpthreads -lmach -lc_r -lc
            (butenhof@zko.dec.com)
    Digital UNIX 4.x/DCE                -lpthreads -lpthread -lmach -lexc -lc
            (butenhof@zko.dec.com)
    Digital UNIX 4.x/POSIX              -lpthread -lmach -lexc -lc
            (butenhof@zko.dec.com)
    AIX 4.1.4/{draft7,DCE}              (nothing)
            (buhrt@iquest.net)
    IRIX 6.2/POSIX                      -lpthread
            (jph@emilia.engr.sgi.com)


Building a shared libpython
---------------------------

Starting with Python 2.3, the majority of the interpreter can be built
into a shared library, which can then be used by the interpreter
executable, and by applications embedding Python. To enable this feature,
configure with --enable-shared.

If you enable this feature, the same object files will be used to create
a static library.  In particular, the static library will contain object
files using position-independent code (PIC) on platforms where PIC flags
are needed for the shared library.


Configuring additional built-in modules
---------------------------------------

Starting with Python 2.1, the setup.py script at the top of the source
distribution attempts to detect which modules can be built and
```

```
automatically compiles them.  Autodetection doesn't always work, so
you can still customize the configuration by editing the Modules/Setup
file; but this should be considered a last resort.  The rest of this
section only applies if you decide to edit the Modules/Setup file.
You also need this to enable static linking of certain modules (which
is needed to enable profiling on some systems).

This file is initially copied from Setup.dist by the configure script;
if it does not exist yet, create it by copying Modules/Setup.dist
yourself (configure will never overwrite it).  Never edit Setup.dist
-- always edit Setup or Setup.local (see below).  Read the comments in
the file for information on what kind of edits are allowed.  When you
have edited Setup in the Modules directory, the interpreter will
automatically be rebuilt the next time you run make (in the toplevel
directory).

Many useful modules can be built on any Unix system, but some optional
modules can't be reliably autodetected.  Often the quickest way to
determine whether a particular module works or not is to see if it
will build: enable it in Setup, then if you get compilation or link
errors, disable it -- you're either missing support or need to adjust
the compilation and linking parameters for that module.

On SGI IRIX, there are modules that interface to many SGI specific
system libraries, e.g. the GL library and the audio hardware.  These
modules will not be built by the setup.py script.

In addition to the file Setup, you can also edit the file Setup.local.
(the makesetup script processes both).  You may find it more
convenient to edit Setup.local and leave Setup alone.  Then, when
installing a new Python version, you can copy your old Setup.local
file.


Setting the optimization/debugging options
------------------------------------------

If you want or need to change the optimization/debugging options for
the C compiler, assign to the OPT variable on the toplevel make
command; e.g. "make OPT=-g" will build a debugging version of Python
on most platforms.  The default is OPT=-O; a value for OPT in the
environment when the configure script is run overrides this default
(likewise for CC; and the initial value for LIBS is used as the base
set of libraries to link with).

When compiling with GCC, the default value of OPT will also include
the -Wall and -Wstrict-prototypes options.

Additional debugging code to help debug memory management problems can
be enabled by using the --with-pydebug option to the configure script.

For flags that change binary compatibility, use the EXTRA_CFLAGS
variable.


Profiling
---------

If you want C profiling turned on, the easiest way is to run configure
with the CC environment variable to the necessary compiler
invocation.  For example, on Linux, this works for profiling using
gprof(1):
```

```
    CC="gcc -pg" ./configure

Note that on Linux, gprof apparently does not work for shared
libraries.  The Makefile/Setup mechanism can be used to compile and
link most extension modules statically.


Coverage checking
-----------------

For C coverage checking using gcov, run "make coverage".  This will
build a Python binary with profiling activated, and a ".gcno" and
".gcda" file for every source file compiled with that option.  With
the built binary, now run the code whose coverage you want to check.
Then, you can see coverage statistics for each individual source file
by running gcov, e.g.

    gcov -o Modules zlibmodule

This will create a "zlibmodule.c.gcov" file in the current directory
containing coverage info for that source file.

This works only for source files statically compiled into the
executable; use the Makefile/Setup mechanism to compile and link
extension modules you want to coverage-check statically.


Testing
-------

To test the interpreter, type "make test" in the top-level directory.
This runs the test set twice (once with no compiled files, once with
the compiled files left by the previous test run).  The test set
produces some output.  You can generally ignore the messages about
skipped tests due to optional features which can't be imported.
If a message is printed about a failed test or a traceback or core
dump is produced, something is wrong.  On some Linux systems (those
that are not yet using glibc 6), test_strftime fails due to a
non-standard implementation of strftime() in the C library. Please
ignore this, or upgrade to glibc version 6.

By default, tests are prevented from overusing resources like disk space and
memory.  To enable these tests, run "make testall".

IMPORTANT: If the tests fail and you decide to mail a bug report,
*don't* include the output of "make test".  It is useless.  Run the
failing test manually, as follows:

        ./python Lib/test/regrtest.py -v test_whatever

(substituting the top of the source tree for '.' if you built in a
different directory).  This runs the test in verbose mode.


Installing
----------

To install the Python binary, library modules, shared library modules
(see below), include files, configuration files, and the manual page,
just type
```

```
        make install

This will install all platform-independent files in subdirectories of
the directory given with the --prefix option to configure or to the
`prefix' Make variable (default /usr/local).  All binary and other
platform-specific files will be installed in subdirectories if the
directory given by --exec-prefix or the `exec_prefix' Make variable
(defaults to the --prefix directory) is given.

If DESTDIR is set, it will be taken as the root directory of the
installation, and files will be installed into $(DESTDIR)$(prefix),
$(DESTDIR)$(exec_prefix), etc.

All subdirectories created will have Python's version number in their
name, e.g. the library modules are installed in
"/usr/local/lib/python<version>/" by default, where <version> is the
<major>.<minor> release number (e.g. "2.1").  The Python binary is
installed as "python<version>" and a hard link named "python" is
created.  The only file not installed with a version number in its
name is the manual page, installed as "/usr/local/man/man1/python.1"
by default.

If you want to install multiple versions of Python see the section below
entitled "Installing multiple versions".

The only thing you may have to install manually is the Python mode for
Emacs found in Misc/python-mode.el.  (But then again, more recent
versions of Emacs may already have it.)  Follow the instructions that
came with Emacs for installation of site-specific files.

On Mac OS X, if you have configured Python with --enable-framework, you
should use "make frameworkinstall" to do the installation. Note that this
installs the Python executable in a place that is not normally on your
PATH, you may want to set up a symlink in /usr/local/bin.


Installing multiple versions
----------------------------

On Unix and Mac systems if you intend to install multiple versions of Python
using the same installation prefix (--prefix argument to the configure
script) you must take care that your primary python executable is not
overwritten by the installation of a different version.  All files and
directories installed using "make altinstall" contain the major and minor
version and can thus live side-by-side.  "make install" also creates
${prefix}/bin/python which refers to ${prefix}/bin/pythonX.Y.  If you intend
to install multiple versions using the same prefix you must decide which
version (if any) is your "primary" version.  Install that version using
"make install".  Install all other versions using "make altinstall".

For example, if you want to install Python 2.5, 2.6 and 3.0 with 2.6 being
the primary version, you would execute "make install" in your 2.6 build
directory and "make altinstall" in the others.


Configuration options and variables
-----------------------------------

Some special cases are handled by passing options to the configure
script.

WARNING: if you rerun the configure script with different options, you
```

```
must run "make clean" before rebuilding.  Exceptions to this rule:
after changing --prefix or --exec-prefix, all you need to do is remove
Modules/getpath.o.

--with(out)-gcc: The configure script uses gcc (the GNU C compiler) if
        it finds it.  If you don't want this, or if this compiler is
        installed but broken on your platform, pass the option
        --without-gcc.  You can also pass "CC=cc" (or whatever the
        name of the proper C compiler is) in the environment, but the
        advantage of using --without-gcc is that this option is
        remembered by the config.status script for its --recheck
        option.

--prefix, --exec-prefix: If you want to install the binaries and the
        Python library somewhere else than in /usr/local/{bin,lib},
        you can pass the option --prefix=DIRECTORY; the interpreter
        binary will be installed as DIRECTORY/bin/python and the
        library files as DIRECTORY/lib/python/*.  If you pass
        --exec-prefix=DIRECTORY (as well) this overrides the
        installation prefix for architecture-dependent files (like the
        interpreter binary).  Note that --prefix=DIRECTORY also
        affects the default module search path (sys.path), when
        Modules/config.c is compiled.  Passing make the option
        prefix=DIRECTORY (and/or exec_prefix=DIRECTORY) overrides the
        prefix set at configuration time; this may be more convenient
        than re-running the configure script if you change your mind
        about the install prefix.

--with-readline: This option is no longer supported.  GNU
        readline is automatically enabled by setup.py when present.

--with-threads: On most Unix systems, you can now use multiple
        threads, and support for this is enabled by default.  To
        disable this, pass --with-threads=no.  If the library required
        for threads lives in a peculiar place, you can use
        --with-thread=DIRECTORY.  IMPORTANT: run "make clean" after
        changing (either enabling or disabling) this option, or you
        will get link errors!  Note: for DEC Unix use
        --with-dec-threads instead.

--with-sgi-dl: On SGI IRIX 4, dynamic loading of extension modules is
        supported by the "dl" library by Jack Jansen, which is
        ftp'able from ftp://ftp.cwi.nl/pub/dynload/dl-1.6.tar.Z.
        This is enabled (after you've ftp'ed and compiled the dl
        library) by passing --with-sgi-dl=DIRECTORY where DIRECTORY
        is the absolute pathname of the dl library.  (Don't bother on
        IRIX 5, it already has dynamic linking using SunOS style
        shared libraries.)  THIS OPTION IS UNSUPPORTED.

--with-dl-dld: Dynamic loading of modules is rumored to be supported
        on some other systems: VAX (Ultrix), Sun3 (SunOS 3.4), Sequent
        Symmetry (Dynix), and Atari ST.  This is done using a
        combination of the GNU dynamic loading package
        (ftp://ftp.cwi.nl/pub/dynload/dl-dld-1.1.tar.Z) and an
        emulation of the SGI dl library mentioned above (the emulation
        can be found at
        ftp://ftp.cwi.nl/pub/dynload/dld-3.2.3.tar.Z).  To
        enable this, ftp and compile both libraries, then call
        configure, passing it the option
        --with-dl-dld=DL_DIRECTORY,DLD_DIRECTORY where DL_DIRECTORY is
        the absolute pathname of the dl emulation library and
        DLD_DIRECTORY is the absolute pathname of the GNU dld library.
```

```
        (Don't bother on SunOS 4 or 5, they already have dynamic
        linking using shared libraries.)  THIS OPTION IS UNSUPPORTED.

--with-libm, --with-libc: It is possible to specify alternative
        versions for the Math library (default -lm) and the C library
        (default the empty string) using the options
        --with-libm=STRING and --with-libc=STRING, respectively.  For
        example, if your system requires that you pass -lc_s to the C
        compiler to use the shared C library, you can pass
        --with-libc=-lc_s. These libraries are passed after all other
        libraries, the C library last.

--with-libs='libs': Add 'libs' to the LIBS that the python interpreter
        is linked against.

--with-cxx-main=<compiler>: If you plan to use C++ extension modules,
        then -- on some platforms -- you need to compile python's main()
        function with the C++ compiler. With this option, make will use
        <compiler> to compile main() *and* to link the python executable.
        It is likely that the resulting executable depends on the C++
        runtime library of <compiler>. (The default is --without-cxx-main.)

        There are platforms that do not require you to build Python
        with a C++ compiler in order to use C++ extension modules.
        E.g., x86 Linux with ELF shared binaries and GCC 3.x, 4.x is such
        a platform. We recommend that you configure Python
        --without-cxx-main on those platforms because a mismatch
        between the C++ compiler version used to build Python and to
        build a C++ extension module is likely to cause a crash at
        runtime.

        The Python installation also stores the variable CXX that
        determines, e.g., the C++ compiler distutils calls by default
        to build C++ extensions. If you set CXX on the configure command
        line to any string of non-zero length, then configure won't
        change CXX. If you do not preset CXX but pass
        --with-cxx-main=<compiler>, then configure sets CXX=<compiler>.
        In all other cases, configure looks for a C++ compiler by
        some common names (c++, g++, gcc, CC, cxx, cc++, cl) and sets
        CXX to the first compiler it finds. If it does not find any
        C++ compiler, then it sets CXX="".

        Similarly, if you want to change the command used to link the
        python executable, then set LINKCC on the configure command line.


--with-pydebug:  Enable additional debugging code to help track down
        memory management problems.  This allows printing a list of all
        live objects when the interpreter terminates.

--with(out)-universal-newlines: enable reading of text files with
        foreign newline convention (default: enabled). In other words,
        any of \r, \n or \r\n is acceptable as end-of-line character.
        If enabled import and execfile will automatically accept any newline
        in files. Python code can open a file with open(file, 'U') to
        read it in universal newline mode. THIS OPTION IS UNSUPPORTED.

--with-tsc: Profile using the Pentium timestamping counter (TSC).

--with-system-ffi:  Build the _ctypes extension module using an ffi
        library installed on the system.
```

```
--with-dbmliborder=db1:db2:...:  Specify the order that backends for the
    dbm extension are checked. Valid value is a colon separated string
    with the backend names `ndbm', `gdbm' and `bdb'.

Building for multiple architectures (using the VPATH feature)
-------------------------------------------------------------

If your file system is shared between multiple architectures, it
usually is not necessary to make copies of the sources for each
architecture you want to support.  If the make program supports the
VPATH feature, you can create an empty build directory for each
architecture, and in each directory run the configure script (on the
appropriate machine with the appropriate options).  This creates the
necessary subdirectories and the Makefiles therein.  The Makefiles
contain a line VPATH=... which points to a directory containing the
actual sources.  (On SGI systems, use "smake -J1" instead of "make" if
you use VPATH -- don't try gnumake.)

For example, the following is all you need to build a minimal Python
in /usr/tmp/python (assuming ~guido/src/python is the toplevel
directory and you want to build in /usr/tmp/python):

        $ mkdir /usr/tmp/python
        $ cd /usr/tmp/python
        $ ~guido/src/python/configure
        [...]
        $ make
        [...]
        $

Note that configure copies the original Setup file to the build
directory if it finds no Setup file there.  This means that you can
edit the Setup file for each architecture independently.  For this
reason, subsequent changes to the original Setup file are not tracked
automatically, as they might overwrite local changes.  To force a copy
of a changed original Setup file, delete the target Setup file.  (The
makesetup script supports multiple input files, so if you want to be
fancy you can change the rules to create an empty Setup.local if it
doesn't exist and run it with arguments $(srcdir)/Setup Setup.local;
however this assumes that you only need to add modules.)

Also note that you can't use a workspace for VPATH and non VPATH builds. The
object files left behind by one version confuses the other.


Building on non-UNIX systems
----------------------------

For Windows (2000/NT/ME/98/95), assuming you have MS VC++ 7.1, the
project files are in PCbuild, the workspace is pcbuild.dsw.  See
PCbuild\readme.txt for detailed instructions.

For other non-Unix Windows compilers, in particular MS VC++ 6.0 and
for OS/2, enter the directory "PC" and read the file "readme.txt".

For the Mac, a separate source distribution will be made available,
for use with the CodeWarrior compiler.  If you are interested in Mac
development, join the PythonMac Special Interest Group
(http://www.python.org/sigs/pythonmac-sig/, or send email to
pythonmac-sig-request@python.org).

Of course, there are also binary distributions available for these
```

```
platforms -- see http://www.python.org/.

To port Python to a new non-UNIX system, you will have to fake the
effect of running the configure script manually (for Mac and PC, this
has already been done for you).  A good start is to copy the file
pyconfig.h.in to pyconfig.h and edit the latter to reflect the actual
configuration of your system.  Most symbols must simply be defined as
1 only if the corresponding feature is present and can be left alone
otherwise; however the *_t type symbols must be defined as some
variant of int if they need to be defined at all.

For all platforms, it's important that the build arrange to define the
preprocessor symbol NDEBUG on the compiler command line in a release
build of Python (else assert() calls remain in the code, hurting
release-build performance).  The Unix, Windows and Mac builds already
do this.


Miscellaneous issues
====================

Emacs mode
----------

There's an excellent Emacs editing mode for Python code; see the file
Misc/python-mode.el.  Originally written by the famous Tim Peters, it is now
maintained by the equally famous Barry Warsaw.  The latest version, along with
various other contributed Python-related Emacs goodies, is online at
http://launchpad.net/python-mode/.


Tkinter
-------

The setup.py script automatically configures this when it detects a
usable Tcl/Tk installation.  This requires Tcl/Tk version 8.0 or
higher.

For more Tkinter information, see the Tkinter Resource page:
http://www.python.org/topics/tkinter/

There are demos in the Demo/tkinter directory.

Note that there's a Python module called "Tkinter" (capital T) which
lives in Lib/lib-tk/Tkinter.py, and a C module called "_tkinter"
(lower case t and leading underscore) which lives in
Modules/_tkinter.c.  Demos and normal Tk applications import only the
Python Tkinter module -- only the latter imports the C _tkinter
module.  In order to find the C _tkinter module, it must be compiled
and linked into the Python interpreter -- the setup.py script does
this.  In order to find the Python Tkinter module, sys.path must be
set correctly -- normal installation takes care of this.


Distribution structure
----------------------

Most subdirectories have their own README files.  Most files have
comments.

Demo/           Demonstration scripts, modules and programs
Doc/            Documentation sources (reStructuredText)
```

```
Grammar/        Input for the parser generator
Include/        Public header files
LICENSE         Licensing information
Lib/            Python library modules
Mac/            Macintosh specific resources
Makefile.pre.in Source from which config.status creates the Makefile.pre
Misc/           Miscellaneous useful files
Modules/        Implementation of most built-in modules
Objects/        Implementation of most built-in object types
PC/             Files specific to PC ports (DOS, Windows, OS/2)
PCbuild/        Build directory for Microsoft Visual C++
Parser/         The parser and tokenizer and their input handling
Python/         The byte-compiler and interpreter
README          The file you're reading now
RISCOS/         Files specific to RISC OS port
Tools/          Some useful programs written in Python
pyconfig.h.in   Source from which pyconfig.h is created (GNU autoheader output)
configure       Configuration shell script (GNU autoconf output)
configure.ac    Configuration specification (input for GNU autoconf)
install-sh      Shell script used to install files
setup.py        Python script used to build extension modules

The following files will (may) be created in the toplevel directory by
the configuration and build processes:

Makefile        Build rules
Makefile.pre    Build rules before running Modules/makesetup
buildno         Keeps track of the build number
config.cache    Cache of configuration variables
pyconfig.h      Configuration header
config.log      Log from last configure run
config.status   Status from last run of the configure script
getbuildinfo.o  Object file from Modules/getbuildinfo.c
libpython<version>.a    The library archive
python          The executable interpreter
reflog.txt      Output from running the regression suite with the -R flag
tags, TAGS      Tags files for vi and Emacs


That's all, folks!
------------------


--Guido van Rossum (home page: http://www.python.org/~guido/)
```

Python 3.6.8-17

```
From https://docs.python.org/3.6/license.html
----------
History and License
History of the software
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 Pythons 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 https://www.zope.org/). 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.

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

Release

Derived from

Year

Owner

GPL compatible?

0.9.0 thru 1.2

n/a

1991-1995

CWI

yes

1.3 thru 1.5.2

1.2

1995-1999

CNRI

yes

1.6

1.5.2

2000

CNRI

no

2.0

1.6

2000

BeOpen.com

no

1.6.1

1.6

2001

CNRI

no

2.1

2.0+1.6.1

2001

PSF

no

2.0.1

2.0+1.6.1

2001

PSF

yes

2.1.1

2.1+2.0.1

2001

PSF

yes

2.1.2

2.1.1

2002

PSF

yes

2.1.3

2.1.2

2002

PSF

yes

2.2 and above

2.1.1

2001-now

PSF

yes

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Mersenne Twister

The _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 socket module uses the functions, getaddrinfo(), and getnameinfo(), which are coded
in separate source files from the WIDE Project, http://www.wide.ad.jp/.

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```
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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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Original location:
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Python was created in the early 1990s by Guido van Rossum at Stichting
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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
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2.1.1	2.1+2.0.1	2001	PSF	yes
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The _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)
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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)

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Sockets
The socket module uses the functions, getaddrinfo(), and getnameinfo(), which are coded
in separate source files from the WIDE Project, http://www.wide.ad.jp/.

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard

----------
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Original location:
   https://github.com/majek/csiphash/

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)

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libmpdec
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Python 3.11.9-2.0.1

```
SRC.RPM: https://yum.oracle.com/repo/OracleLinux/OL8/appstream/x86_64/getPackage/
python3.11-3.11.9-2.0.1.el8_10.x86_64.rpm

******************
History and License
******************


History of the software
=======================

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
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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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| 2.1            | 2.0+1.6.1    | 2001       | PSF        | 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
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   A C-program for MT19937, with initialization improved 2002/1/26.
   Coded by Takuji Nishimura and Makoto Matsumoto.

   Before using, initialize the state by using init_genrand(seed)
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   http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
-------

The :mod:`socket` module uses the functions, :c:func:`!getaddrinfo`, and
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Asynchronous socket services
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-------------------------------

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

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---------

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     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
strtod for conversion of C doubles to and from strings, is derived
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-------

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

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Audioop
-------

The audioop module uses the code base in g771.c file of the SoX project.
https://sourceforge.net/projects/sox/files/sox/12.17.7/sox-12.17.7.tar.gz

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python-libs

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

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

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

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

    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)

    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.2             2.1.1       2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
    2.2.1           2.2         2002        PSF         yes
    2.2.2           2.2.1       2002        PSF         yes
    2.2.3           2.2.2       2003        PSF         yes
    2.3             2.2.2       2002-2003   PSF         yes
    2.3.1           2.3         2002-2003   PSF         yes
    2.3.2           2.3.1       2002-2003   PSF         yes
    2.3.3           2.3.2       2002-2003   PSF         yes
    2.3.4           2.3.3       2004        PSF         yes
    2.3.5           2.3.4       2005        PSF         yes
    2.4             2.3         2004        PSF         yes
    2.4.1           2.4         2005        PSF         yes
    2.4.2           2.4.1       2005        PSF         yes
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2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
because its license has a choice of law clause. According to
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python-swiftclient 3.11.1

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Section 6 states terms for distribution of such executables.

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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
linked without the Library, or if the work is itself a library. The
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  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
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================================================================================
======

qemu has the following 4th party dependencies :

seabios-bin         1.11.0-2
```

```
sgabios-bin         0.20110622svn-4
ipxe-roms-qemu      20180825-3.git133f4c.el7
python              2.7.5-89.0.1.el7


================================================================================
=====
4th party 1:  seabios-bin
https://github.com/coreboot/seabios

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4th party 2: sgabios-bin

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================================================================================================
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4th party 4:  python2

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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
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
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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
the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.7	2.6	2010	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
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qemu-kvm

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exometer_slide.erl
------------------
%% This file is a copy of exometer_slide.erl from https://github.com/Feuerlabs/
exometer_core,
%% with the following modifications:
%%
%% 1) The elements are tuples of numbers
%%
%% 2) Only one element for each expected interval point is added, intermediate values
%%    are discarded. Thus, if we have a window of 60s and interval of 5s, at max 12
elements
%%    are stored.
%%
%% 3) Additions can be provided as increments to the last value stored
%%
%% 4) sum/1 implements the sum of several slides, generating a new timestamp sequence
based
%%    on the given intervals. Elements on each window are added to the closest interval
point.
%%
%% Original commit: https://github.com/Feuerlabs/exometer_core/commit/
2759edc804211b5245867b32c9a20c8fe1d93441
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%%
%% @author Tony Rogvall <tony@rogvall.se>
%% @author Ulf Wiger <ulf@feuerlabs.com>
%% @author Magnus Feuer <magnus@feuerlabs.com>
%%
%% @doc Efficient sliding-window buffer
%%
%% Initial implementation: 29 Sep 2009 by Tony Rogvall
%%
%% This module implements an efficient sliding window, maintaining
%% two lists - a primary and a secondary. Values are paired with a
%% timestamp (millisecond resolution, see `timestamp/0')
%% and prepended to the primary list. When the time span between the oldest
%% and the newest entry in the primary list exceeds the given window size,
%% the primary list is shifted into the secondary list position, and the
%% new entry is added to a new (empty) primary list.
%%
%% The window can be converted to a list using `to_list/1'.
%% @end
%%
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(CA). These were automatically extracted from Mozilla's root certificates
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https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/
certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $


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include/ruby/oniguruma.h:
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regenc.c:
regenc.h:
regerror.c:
regexec.c:
regint.h:
regparse.c:
regparse.h:
enc/ascii.c:
enc/big5.c:
enc/cp949.c:
enc/emacs_mule.c:
enc/encdb.c:
enc/euc_jp.c:
enc/euc_kr.c:
enc/euc_tw.c:
enc/gb18030.c:
enc/gb2312.c:
enc/gbk.c:
enc/iso_8859_1.c:
enc/iso_8859_10.c:
enc/iso_8859_11.c:
enc/iso_8859_13.c:
enc/iso_8859_14.c:
enc/iso_8859_15.c:
enc/iso_8859_16.c:
enc/iso_8859_2.c:
enc/iso_8859_3.c:
```

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enc/iso_8859_4.c:
enc/iso_8859_5.c:
enc/iso_8859_6.c:
enc/iso_8859_7.c:
enc/iso_8859_8.c:
enc/iso_8859_9.c:
enc/koi8_r.c:
enc/koi8_u.c:
enc/shift_jis.c:
enc/unicode.c:
enc/us_ascii.c:
enc/utf_16be.c:
enc/utf_16le.c:
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A C-program for MT19937, with initialization improved 2002/2/10.
Coded by Takuji Nishimura and Makoto Matsumoto.
This is a faster version by taking Shawn Cokus's optimization,
Matthe Bellew's simplification, Isaku Wada's real version.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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strftime.c:
include/ruby/st.h:
missing/acosh.c:
missing/alloca.c:
missing/dup2.c:
missing/erf.c:
missing/finite.c:
missing/hypot.c:
missing/isinf.c:
missing/isnan.c:
missing/lgamma_r.c:
missing/memcmp.c:
missing/memmove.c:
missing/strchr.c:
missing/strerror.c:
missing/strstr.c:
missing/tgamma.c:
ext/date/date_strftime.c:
```

```
ext/digest/sha1/sha1.c:
ext/digest/sha1/sha1.h:
ext/sdbm/_sdbm.c:
ext/sdbm/sdbm.h:

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4th party 5: slf4j-api
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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.
In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations, which became
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    2.1             2.0+1.6.1   2001        PSF         no
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Modules:
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slf4j-api
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slf4j-simple
slf4j-nop
slf4j-jdk14
slf4j-log4j12
slf4j-ext
jcl-over-slf4j
log4j-over-slf4j
jul-to-slf4j
osgi-over-slf4j
integration
slf4j-site
slf4j-migrator



**********************************
4P Dependencies:
**********************************

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2.simpleclient_common
3.simpleclient_servlet_common
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    egrep '\.(go|proto|py|sh)$' | grep -v '\.pb\.go$'`
status=0
for file in $files; do
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github.com/Azure/go-autorest/autorest/azure/cli
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github.com/Azure/go-autorest/autorest/validation
github.com/Azure/go-autorest/logger
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github.com/golang/groupcache
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github.com/googleapis/gnostic
github.com/jaegertracing/jaeger
github.com/matttproud/golang_protobuf_extensions
github.com/moby/ipvs
github.com/modern-go/concurrent
github.com/modern-go/reflect2
github.com/nats-io/jwt
github.com/nats-io/nats-server/v2
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github.com/opencontainers/image-spec
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```

```
github.com/prometheus/client_golang
github.com/prometheus/client_model
github.com/prometheus/common
github.com/prometheus/procfs
github.com/prometheus/prometheus
github.com/safchain/ethtool
github.com/signalfx/com_signalfx_metrics_protobuf
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* [Go](#go)

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cloud.google.com/go/pubsub
code.cloudfoundry.org/clock
github.com/Azure/azure-sdk-for-go
github.com/Azure/go-autorest/autorest
github.com/Azure/go-autorest/autorest/adal
github.com/Azure/go-autorest/autorest/azure/auth
github.com/Azure/go-autorest/autorest/azure/cli
github.com/Azure/go-autorest/autorest/date
github.com/Azure/go-autorest/autorest/to
github.com/Azure/go-autorest/autorest/validation
github.com/Azure/go-autorest/logger
github.com/Azure/go-autorest/tracing
github.com/Mellanox/rdmamap
github.com/aerospike/aerospike-client-go
github.com/apache/thrift
github.com/aristanetworks/glog
github.com/aristanetworks/goarista
github.com/aws/aws-sdk-go
github.com/aws/aws-sdk-go-v2
github.com/aws/aws-sdk-go-v2/config
github.com/aws/aws-sdk-go-v2/credentials
github.com/aws/aws-sdk-go-v2/feature/ec2/imds
github.com/aws/aws-sdk-go-v2/service/ec2
github.com/aws/aws-sdk-go-v2/service/internal/presigned-url
github.com/aws/aws-sdk-go-v2/service/sso
github.com/aws/aws-sdk-go-v2/service/sts
github.com/aws/smithy-go
github.com/cisco-ie/nx-telemetry-proto
github.com/containerd/containerd
github.com/dimchansky/utfbom
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github.com/docker/docker
github.com/docker/go-connections
github.com/docker/go-units
github.com/go-logr/logr
github.com/gogo/googleapis
github.com/golang/geo
github.com/golang/groupcache
github.com/google/gofuzz
github.com/googleapis/gnostic
github.com/jaegertracing/jaeger
github.com/matttproud/golang_protobuf_extensions
github.com/moby/ipvs
github.com/modern-go/concurrent
github.com/modern-go/reflect2
github.com/nats-io/jwt
github.com/nats-io/nats-server/v2
github.com/nats-io/nats.go
github.com/nats-io/nkeys
github.com/nats-io/nuid
github.com/newrelic/newrelic-telemetry-sdk-go
github.com/openconfig/gnmi
github.com/opencontainers/go-digest
github.com/opencontainers/image-spec
github.com/opentracing-contrib/go-observer
github.com/opentracing/opentracing-go
github.com/prometheus/client_golang
github.com/prometheus/client_model
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github.com/prometheus/procfs
github.com/prometheus/prometheus
github.com/safchain/ethtool
github.com/signalfx/com_signalfx_metrics_protobuf
github.com/signalfx/golib/v3
github.com/signalfx/sapm-proto
github.com/tklauser/numcpus
github.com/vishvananda/netlink
github.com/vishvananda/netns
github.com/vjeantet/grok
github.com/vmware/govmomi
github.com/wavefronthq/wavefront-sdk-go
github.com/xdg/scram
github.com/xdg/stringprep
go.opencensus.io
google.golang.org/genproto
google.golang.org/grpc
gopkg.in/gorethink/gorethink.v3
gopkg.in/jcmturner/aescts.v1
gopkg.in/jcmturner/dnsutils.v1
gopkg.in/jcmturner/gokrb5.v7
gopkg.in/jcmturner/rpc.v1
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Vault 1.7.1

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@types/glob
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@types/hast
-------- Copyrights
-------- Dependency
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-------- Copyrights
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@types/json-schema
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-------- Dependency
@types/webpack
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@types/webpack-env
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@types/webpack-sources
-------- Copyrights
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@types/node-fetch
@types/parse5
@types/q
@types/qs
@types/reach__router
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@types/source-list-map
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-------- Copyrights
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@types/color-name
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@types/fs-extra
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@types/glob-base
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@types/npmlog
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@types/scheduler
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@types/symlink-or-copy
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@types/unist
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@types/pretty-hrtime
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-------- Dependency
@csstools/normalize.css
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-------- Dependency
css-blank-pseudo
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-------- Dependency
css-has-pseudo
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css-prefers-color-scheme
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sanitize.css
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stylelint-media-use-custom-media
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-------- Dependency
stylelint-use-nesting
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stylelint-value-no-unknown-custom-properties
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postcss-preset-env
postcss-pseudo-class-any-link
sanitize.css
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sidebar_title: <code>/sys/license</code>
description: |-
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  Vault.
---
# `/sys/license`
~> **Enterprise Only**  These endpoints require Vault Enterprise.
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Vault.
## Read License
This endpoint returns information about the currently installed license.
| Method | Path           |
| :----- | :------------- |
| `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"]
}
```
Install License
This endpoint is used to install a license into Vault.
Method	Path
`PUT`	`/sys/license`
Parameters
- `text` `(string: <required>)` -he 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
```shell-session
$ curl \
    --header "X-Vault-Token: ..." \
    --request PUT \
    --data @payload.json \
```
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github.com/gophercloud/gophercloud
github.com/jcmturner/aescts
github.com/jcmturner/dnsutils
github.com/jcmturner/goidentity/v6
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href=example.css> </head> <body> <div class=container> <h1>React Autosize Input</h1>
<h2><a href=http://github.com/JedWatson/react-input-autosize>View project on
GitHub</a></h2> <form><div id=app></div></form> <div class=hint> Type in the text fields
above to test the auto-size input. </div> <div class=footer> Copyright &copy; Jed Watson
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github.com/gammazero/workerpool
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github.com/go-errors/errors
github.com/go-ldap/ldap/v3
github.com/go-ldap/ldif
github.com/go-stack/stack
github.com/go-test/deep
github.com/hailocab/go-hostpool
github.com/hashicorp/go-hclog
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github.com/hashicorp/go-syslog
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github.com/influxdata/influxdb
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github.com/json-iterator/go
github.com/kelseyhightower/envconfig
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go.uber.org/zap
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unist-util-find-all-after
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websocket-client-python

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4P Dependency: org.codehaus.woodstox:stax2-api:jar

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Ansible 2.9.17-1

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Version 3, 29 June 2007

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ncurses-libs-5.9-14.20130511.el7_4.x86_64
  * /usr/share/doc/ncurses-5.9/README
zlib-1.2.7-18.el7.x86_64
  * /usr/share/doc/zlib-1.2.7/README
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glibc-2.17-317.0.1.el7.x86_64
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/usr/share/doc/glibc-2.17/README
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This directory contains the sources of the GNU C Library.
See the file "version.h" for what release version you have.
The GNU C Library is the standard system C library for all GNU systems,
and is an important part of what makes up a GNU system.  It provides the
system API for all programs written in C and C-compatible languages such
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languages use the C library to access the underlying operating system.
In GNU/Linux systems, the C library works with the Linux kernel to
implement the operating system behavior seen by user applications.
In GNU/Hurd systems, it works with a microkernel and Hurd servers.
The GNU C Library implements much of the POSIX.1 functionality in the
GNU/Hurd system, using configurations i[34567]86-*-gnu.  The current
GNU/Hurd support requires out-of-tree patches that will eventually be
incorporated into an official GNU C Library release.
When working with Linux kernels, this version of the GNU C Library
requires Linux kernel version 2.6.16 or later.
Also note that the shared version of the libgcc_s library must be
installed for the pthread library to work correctly.
The GNU C Library supports these configurations for using Linux kernels:
    i[4567]86-*-linux-gnu
```

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    x86_64-*-linux-gnu    Can build either x86_64 or x32
    powerpc-*-linux-gnu    Hardware floating point required
    powerpc64-*-linux-gnu
    s390-*-linux-gnu
    s390x-*-linux-gnu
    sh[34]-*-linux-gnu
    sparc*-*-linux-gnu
    sparc64*-*-linux-gnu
The code for other CPU configurations supported by volunteers outside of
the core glibc maintenance effort is contained in the `ports' add-on,
located in the `ports' subdirectory of the source tree.
    aarch64*-*-linux-gnu
    alpha*-*-linux-gnu
    am33*-*-linux-gnu    Not currently functional
    arm-*-linux-gnueabi
    hppa-*-linux-gnu    Not currently functional without patches.
    ia64-*-linux-gnu
    m68k-*-linux-gnu
    mips-*-linux-gnu
    mips64-*-linux-gnu
    powerpc-*-linux-gnu    Software floating point (--without-fp)
    tilegx-*-linux-gnu
    tilepro-*-linux-gnu
If you are interested in doing a port, please contact the glibc
maintainers; see http://www.gnu.org/software/libc/ for more
information.
See the file INSTALL to find out how to configure, build, and install
the GNU C Library.  You might also consider reading the WWW pages for
the C library at http://www.gnu.org/software/libc/.
The GNU C Library is (almost) completely documented by the Texinfo manual
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following the bug-reporting instructions below.  Please be sure to check
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```

certifi 2020.12.5

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

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $


https://hg.mozilla.org/mozilla-central/raw-file/tip/security/nss/lib/ckfw/builtins/
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certifi 2022.12.7

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

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
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(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.

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Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

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certifi 2023.5.7

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

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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cliff 4.3.0

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cmd2

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Version 2.0, January 2004

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coredns 1.8.4

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cryptography

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Cryptography 3.2.1-1.0.1

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github.com/Azure/go-autorest
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####
#
# Id: Cookie.py,v 2.29 2000/08/23 05:28:49 timo Exp
```

```
#   by Timothy O'Malley <timo@alum.mit.edu>
#
#  Cookie.py is a Python module for the handling of HTTP
#  cookies as a Python dictionary.  See RFC 2109 for more
#  information on cookies.
#
#  The original idea to treat Cookies as a dictionary came from
#  Dave Mitchell (davem@magnet.com) in 1995, when he released the
#  first version of nscookie.py.
#
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github.com/kubernetes-csi/external-attacher/v2
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github.com/blang/semver
github.com/cespare/xxhash/v2
github.com/json-iterator/go
gopkg.in/yaml.v3

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github.com/google/gofuzz
github.com/googleapis/gnostic
github.com/kubernetes-csi/csi-lib-utils
github.com/matttproud/golang_protobuf_extensions
github.com/modern-go/concurrent
github.com/modern-go/reflect2
github.com/prometheus/client_golang
github.com/prometheus/client_model
github.com/prometheus/common
github.com/prometheus/procfs
google.golang.org/genproto
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Fluentd 1.9.3

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https://github.com/frsyuki/serverengine
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gunicorn 20.1.0

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backport frop python3 Lib/test/support.py


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setuptools 41.2.0

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util/unlink.py
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backport from python3 Lib/test/support.py


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Historically, haproxy has been covered by GPL version 2. However, an issue
appeared in GPL which will prevent external non-GPL code from being built
using the headers provided with haproxy. My long-term goal is to build a core
system able to load external modules to support specific application protocols.
Since some protocols are found in rare environments (finance, industry, ...),
some of them might be accessible only after signing an NDA. Enforcing GPL on
such modules would only prevent them from ever being implemented, while not
providing anything useful to ordinary users.
For this reason, I *want* to be able to support binary only external modules
when needed, with a GPL core and GPL modules for standard protocols, so that
people fixing bugs don't keep them secretly to try to stay over competition.
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github.com/checkpoint-restore/go-criu/v4
github.com/checkpoint-restore/go-criu/v5
github.com/cncf/udpa
github.com/cockroachdb/errors
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github.com/cockroachdb/logtags
github.com/containerd/aufs
github.com/containerd/btrfs
github.com/containerd/go-cni
github.com/containerd/imgcrypt
github.com/containerd/nri
github.com/containerd/zfs
github.com/containernetworking/cni
github.com/containernetworking/plugins
github.com/containers/ocicrypt
github.com/coreos/go-iptables
github.com/distribution/distribution/
github.com/docker/docker
github.com/docker/go-events
github.com/docker/go-events
github.com/gomodule/redigo
github.com/google/shlex
github.com/mistifyio/go-zfs
github.com/moby/locker
github.com/moby/spdystream
github.com/moby/sys/mountinfo
github.com/moby/sys/symlink
github.com/mrunalp/fileutils
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github.com/opencontainers/selinux
github.com/safchain/ethtool
github.com/stefanberger/go-pkcs11uri
github.com/vishvananda/netlink
github.com/vishvananda/netns
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go.opentelemetry.io/contrib/instrumentation/net/http/otelhttp
go.opentelemetry.io/otel
go.opentelemetry.io/otel/exporters/otlp
go.opentelemetry.io/otel/metric
go.opentelemetry.io/otel/oteltest
go.opentelemetry.io/otel/sdk
go.opentelemetry.io/otel/sdk/export/metric
go.opentelemetry.io/otel/sdk/metric
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go.opentelemetry.io/proto/otlp
k8s.io/cri-api
k8s.io/kubernetes
oras.land/oras-go
github.com/oras-project/oras-go
cloud.google.com/go
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github.com/Azure/go-autorest/autorest/mocks
github.com/Azure/go-autorest/logger
github.com/Azure/go-autorest/tracing
github.com/Masterminds/goutils
github.com/NYTimes/gziphandler
github.com/PuerkitoBio/url
github.com/aws/aws-sdk-go
github.com/aws/aws-sdk-go-v2
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k8s.io/api
k8s.io/apiextensions-apiserver
k8s.io/apimachinery
k8s.io/apiserver
k8s.io/cli-runtime
k8s.io/client-go
k8s.io/code-generator
k8s.io/component-base
k8s.io/component-helpers
k8s.io/gengo
k8s.io/klog/v2
k8s.io/kube-openapi
k8s.io/kubectl
k8s.io/metrics
k8s.io/utils
github.com/google/gofuzz
github.com/google/martian
github.com/google/pprof
github.com/google/renameio
github.com/google/btreev
github.com/census-instrumentation/opencensus-proto
github.com/containerd/cgroups
github.com/containerd/containerd
github.com/containerd/continuity
github.com/containerd/fifo
github.com/containerd/go-run
github.com/containerd/ttrpc
github.com/containerd/typeurl
github.com/coreos/etcd
github.com/coreos/go-oidc
github.com/coreos/go-semver
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github.com/coreos/pkg
github.com/docker/cli
github.com/docker/distribution
github.com/docker/docker-credential-helpers
github.com/docker/go-connections
github.com/docker/go-metrics
github.com/docker/go-units
github.com/docker/libtrust
github.com/envoyproxy/go-control-plane
github.com/garyburd/redigo
github.com/go-ini/ini
github.com/go-logr/logr
github.com/go-openapi/jsonpointer
github.com/go-openapi/jsonreference
github.com/go-openapi/spec
github.com/go-openapi/swag
github.com/gogo/googleapis
github.com/golang/glog
github.com/golang/groupcache
github.com/golang/mock
github.com/googleapis/gnostic
github.com/grpc-ecosystem/go-grpc-middleware
github.com/grpc-ecosystem/go-grpc-prometheus
github.com/jonboulle/clockwork
github.com/lyft/protoc-gen-validate
github.com/matttproud/golang_protobuf_extensions
github.com/moby/term
github.com/modern-go/concurrent
github.com/modern-go/reflect2
github.com/mwitkow/go-conntrack
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github.com/oklog/ulid
github.com/opencontainers/go-digest
github.com/opencontainers/image-spec
github.com/opencontainers/runc
github.com/opencontainers/runtime-spec
github.com/opentracing/opentracing-go
github.com/pquerna/cachecontrol
github.com/prometheus/client_golang
github.com/prometheus/client_model
github.com/prometheus/common
github.com/prometheus/procfs
github.com/prometheus/tsdb
github.com/soheilhy/cmux
github.com/spf13/afero
github.com/spf13/cobra
github.com/xeipuuv/gojsonpointer
github.com/xeipuuv/gojsonreference
github.com/xeipuuv/gojsonschema
go.etcd.io/etcd
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github.com/golang/appengine
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github.com/golang/grpc
github.com/golang/protobuf
sigs.k8s.io/apiserver-network-proxy/konnectivity-client
sigs.k8s.io/kustomize
sigs.k8s.io/kustomize/api
sigs.k8s.io/kustomize/cmd/config
sigs.k8s.io/kustomize/kustomize/v4
sigs.k8s.io/kustomize/kyaml
sigs.k8s.io/structured-merge-diff/v4
sigs.k8s.io/yaml

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rsc.io/letsencrypt

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github.com/willf/bitset
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github.com/cyphar/filepath-securejoin
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github.com/elazarl/goproxy
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github.com/evanphx/json-patch
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gopkg.in/gemnasium/logrus-airbrake-hook.v2

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go.uber.org/goleak

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github.com/stoewer/go-strcase
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github.com/niemeyer/pretty

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github.com/j-keck/arping

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github.com/josharian/intern

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github.com/jpillora/backoff

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github.com/Masterminds/sprig

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github.com/alexflint/go-filemutex

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github.com/antihax/optional

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github.com/benbjohnson/clock

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github.com/buger/jsonparser

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github.com/frankban/quicktest

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go.mozilla.org/pkcs7
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github.com/fullsailor/pkcs7

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github.com/Azure/azure-sdk-for-go

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github.com/Masterminds/semver

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github.com/Masterminds/sprig
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github.com/Microsoft/hcsshim

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github.com/armon/circbuf

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github.com/beorn7/perks

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github.com/bitly/go-simplejson

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github.com/blang/semver

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github.com/bshuster-repo/logrus-logstash-hook

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github.com/bugsnag/panicwrap

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github.com/cespare/xxhash

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github.com/cilium/ebpf

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github.com/client9/misspell

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github.com/coreos/bbolt

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github.com/creack/pty

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github.com/dgrijalva/jwt-go

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github.com/emicklei/go-restful

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github.com/exponent-io/jsonpath

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github.com/fatih/camelcase

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github.com/fatih/color

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github.com/form3tech-oss/jwt-go

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======================github.com/Masterminds/squirrel
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================github.com/bgentry/speakeasy

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github.com/google/go-cmp

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github.com/google/uuid

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github.com/bugsnag/osext
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github.com/davecgh/go-spew
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github.com/dnaeon/go-vcr

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github.com/dustin/go-humanize

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github.com/fvbommel/sortorder

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github.com/ghodss/yaml

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github.com/gobuffalo/logger

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github.com/gobuffalo/packr

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github.com/gobwas/glob

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github.com/pkg/sftp

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github.com/godror/godror

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github.com/getsentry/raven-go

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github.com/d2g/dhcp4
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Protocol Buffers for Go with Gadgets

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

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github.com/gorilla/handlers

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github.com/markbates/errx

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github.com/gregjones/httpcache

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github.com/go-errors/errors

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github.com/jmoiron/sqlx
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github.com/kisielk/errcheck
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github.com/konsorten/go-windows-terminal-sequences

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github.com/mattn/go-oci8

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github.com/mattn/go-runewidth

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github.com/ncw/swift

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github.com/pascaldekloe/goe

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github.com/exponent-io/jsonpath
github.com/fatih/color
github.com/go-errors/errors
github.com/go-gorp/gorp/v3
github.com/gobwas/glob
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Javassist (JAVA programming ASSISTant) makes Java bytecode manipulation
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JVM loads it. Unlike other similar bytecode editors, Javassist provides two
levels of API: source level and bytecode level. If the users use the source-
level API, they can edit a class file without knowledge of the specifications
of the Java bytecode. The whole API is designed with only the vocabulary of
the Java language. You can even specify inserted bytecode in the form of
source text; Javassist compiles it on the fly. On the other hand, the
bytecode-level API allows the users to directly edit a class file as other
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importlib_resources

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iscsi-initiator-utils

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Jackson Core

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers.

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Jakarta JSON Binding API (JSON-B)

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petit-dom - v0.2.2
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webcomponents/custom-elements - v1.1.2

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JS Signals <http://millermedeiros.github.com/js-signals/>
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jersey-client

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"Jakarta XML Binding API" 2.3.3: EDL 1.0 (jakarta.xml.bind:jakarta.xml.bind-api)
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-----------------------------------------------
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jersey-hk2

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--------------------------------------------
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jersey-media-json-jackson

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--------------------------------------------------------------------------------
----
    Fourth party dependencies
    -------------------------
```

```
    #01    java:com.fasterxml.jackson.core:jackson-annotations [Apache 2.0]
    #02    java:com.fasterxml.jackson.core:jackson-databind [Apache 2.0]
    #03    com.fasterxml.jackson.core:jackson-annotations     [Apache 2.0]
    #04    com.fasterxml.jackson.core:jackson-core     [Apache 2.0]
    #05    com.fasterxml.jackson.module:jackson-module-jakarta-xmlbind-annotations
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    #07    jakarta.activation:jakarta.activation-api    [EDL 1.0]
    #08    jakarta.xml.bind:jakarta.xml.bind-api     [EDL 1.0]
    #09    java:org.glassfish.jersey.core:jersey-common[EPL 2.0 + GPL v.2 with CPE]
    #10    jakarta.annotation:jakarta.annotation-api    [EPL 2.0 + GPL v.2 with CPE]
    #11    jakarta.inject:jakarta.inject-api    [Apache 2.0]
    #12    jakarta.ws.rs:jakarta.ws.rs-api        [EPL 2.0 + GPL v.2 with CPE]
    #13    org.glassfish.hk2:osgi-resource-locator [EPL 2.0 + GPL v.2 with CPE]
    #14    org.osgi:osgi.core                     [Apache 2.0]
    #14    org.osgi:osgi.cmpn                     [Apache 2.0]
    #15    java:org.glassfish.jersey.ext:jersey-entity-filtering [EPL 2.0 + GPL v.2 with
CPE]
--------------------------------------------------------------------------------------------
----
    Notices for #01 Jackson Annotations to #06 Jackson Core
    -------------------------------------------------------
    # Jackson JSON processor

    Jackson is a high-performance, Free/Open Source JSON processing library.
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```

```
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    normalize.css (3.0.2)

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    JUnit (4.11)

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```

```
    Project: http://site.mockito.org
    Source: https://github.com/mockito/mockito/releases/tag/v2.16.0
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kube-state-metrics 2.4.2

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Kubernetes Python Client 26.1.0

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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:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
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       Created by Eddie Robertsson 2002/06/01
       2009/12/10    hj: changed Schematron namespace to ISO URI (Holger Joukl)

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XSD2Schtrn.xsl:
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       based on an original transform by Eddie Robertsson
       2001/04/21    fn: added support for included schemas
       2001/06/27    er: changed XMl Schema prefix from xsd: to xs: and
                     changed to the Rec namespace
       2009/12/10    hj: changed Schematron namespace to ISO URI (Holger Joukl)
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mysqld_exporter

```
Exporter for MySQL daemon.
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github.com/prometheus/client_golang/prometheus    0.8.0    Apache 2.0
github.com/prometheus/client_model/go    0.14.0    Apache 2.0
github.com/prometheus/common    "revision": "7600349dcfe1abd18d72d3a1770870d9800a7801",
"revisionTime": "2018-05-18T15:47:59Z",     Apache 2.0
github.com/prometheus/procfs    "revision": "7d6f385de8bea29190f15ba9931442a0eaef9af7",
"revisionTime": "2018-06-12T22:21:13Z",     Apache 2.0
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github.com/go-sql-driver/mysql  1.4.0    MPL 2.0

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

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
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Release	Derived from	Year	Owner	GPL-compatible? (1)
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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pycparser -- A C parser in Python

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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations, which became
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Zope Corporation. In 2001, the Python Software Foundation (PSF, see
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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You can report issues or suggest changes directly to `validate-pyproject`
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jakarta.ws.rs-api

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jakarta.validation-api

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jackson-annotations
jackson-core
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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
```

```
It is currently developed by a community of developers.

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jakarta.ws.rs-api

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jakarta.validation-api

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================================================================================
```

OCI SDK for Python 2.133.0

```
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asn1crypto >= 0.21.0

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sFlow Specification, located at
[1]http://sflow.org/developers/specifications.php

References

1. http://sflow.org/developers/specifications.php

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 =====
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 * linux/can.h
 *
 * Definitions for CAN network layer (socket addr / CAN frame / CAN filter)
 *
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```
 *
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 */

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=============
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```

```
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That's all there is to it!
```

ovs (Python)

```
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    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application. Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
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DES
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The source file ``passlib/crypto/des.py`` contains code derived from
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    by Iris Van den Broeke, Daniel Deville
    modified Aug 2005
    by Greg Wilkins (gregw)
    converted to python Jun 2009
    by Eli Collins
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-------
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gopkg.in/square/go-jose.v2

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== Dependency
gopkg.in/tomb.v1

== License Type
tomb - support for clean goroutine termination in Go.

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sigs.k8s.io/yaml

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PyJWT 2.7.0

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Python 2.7.5-92.0.1

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

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
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2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes

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    2.6            2.5          2008       PSF          yes
    2.6.1          2.6          2008       PSF          yes
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    2.6.3          2.6.2        2009       PSF          yes
    2.6.4          2.6.3        2009       PSF          yes
    2.6.5          2.6.4        2010       PSF          yes
    2.7            2.6          2010       PSF          yes

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README File

This is Python version 2.7.5
============================

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Python distributions.  There are interfaces to some GNU code but these
are entirely optional.

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holders.


What's new in this release?
---------------------------

See the file "Misc/NEWS".


If you don't read instructions
------------------------------

Congratulations on getting this far. :-)

To start building right away (on UNIX): type "./configure" in the
current directory and when it finishes, type "make".  This creates an
executable "./python"; to install in /usr/local, first do "su root"
and then "make install".

The section `Build instructions' below is still recommended reading.


What is Python anyway?
----------------------

Python is an interpreted, interactive object-oriented programming
language suitable (amongst other uses) for distributed application
development, scripting, numeric computing and system testing.  Python
is often compared to Tcl, Perl, Java, JavaScript, Visual Basic or
Scheme.  To find out more about what Python can do for you, point your
browser to http://www.python.org/.


How do I learn Python?
----------------------

The official tutorial is still a good place to start; see
http://docs.python.org/ for online and downloadable versions, as well
as a list of other introductions, and reference documentation.

There's a quickly growing set of books on Python.  See
http://wiki.python.org/moin/PythonBooks for a list.


Documentation
-------------

All documentation is provided online in a variety of formats.  In
order of importance for new users: Tutorial, Library Reference,
Language Reference, Extending & Embedding, and the Python/C API.  The
Library Reference is especially of immense value since much of
Python's power is described there, including the built-in data types
and functions!

All documentation is also available online at the Python web site
(http://docs.python.org/, see below).  It is available online for occasional
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reference, or can be downloaded in many formats for faster access.  The
documentation is downloadable in HTML, PostScript, PDF, LaTeX, and
reStructuredText (2.6+) formats; the LaTeX and reStructuredText versions are
primarily for documentation authors, translators, and people with special
formatting requirements.


Web sites
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New Python releases and related technologies are published at
http://www.python.org/.  Come visit us!


Newsgroups and Mailing Lists
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Read comp.lang.python, a high-volume discussion newsgroup about
Python, or comp.lang.python.announce, a low-volume moderated newsgroup
for Python-related announcements.  These are also accessible as
mailing lists: see http://www.python.org/community/lists/ for an
overview of these and many other Python-related mailing lists.

Archives are accessible via the Google Groups Usenet archive; see
http://groups.google.com/.  The mailing lists are also archived, see
http://www.python.org/community/lists/ for details.


Bug reports
-----------

To report or search for bugs, please use the Python Bug
Tracker at http://bugs.python.org/.


Patches and contributions
-------------------------

To submit a patch or other contribution, please use the Python Patch
Manager at http://bugs.python.org/.  Guidelines
for patch submission may be found at http://www.python.org/dev/patches/.

If you have a proposal to change Python, you may want to send an email to the
comp.lang.python or python-ideas mailing lists for inital feedback. A Python
Enhancement Proposal (PEP) may be submitted if your idea gains ground. All
current PEPs, as well as guidelines for submitting a new PEP, are listed at
http://www.python.org/dev/peps/.


Questions
---------

For help, if you can't find it in the manuals or on the web site, it's
best to post to the comp.lang.python or the Python mailing list (see
above).  If you specifically don't want to involve the newsgroup or
mailing list, send questions to help@python.org (a group of volunteers
who answer questions as they can).  The newsgroup is the most
efficient way to ask public questions.


Build instructions
==================
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```
Before you can build Python, you must first configure it.
Fortunately, the configuration and build process has been automated
for Unix and Linux installations, so all you usually have to do is
type a few commands and sit back.  There are some platforms where
things are not quite as smooth; see the platform specific notes below.
If you want to build for multiple platforms sharing the same source
tree, see the section on VPATH below.

Start by running the script "./configure", which determines your
system configuration and creates the Makefile.  (It takes a minute or
two -- please be patient!)  You may want to pass options to the
configure script -- see the section below on configuration options and
variables.  When it's done, you are ready to run make.

To build Python, you normally type "make" in the toplevel directory.
If you have changed the configuration, the Makefile may have to be
rebuilt.  In this case, you may have to run make again to correctly
build your desired target.  The interpreter executable is built in the
top level directory.

Once you have built a Python interpreter, see the subsections below on
testing and installation.  If you run into trouble, see the next
section.

Previous versions of Python used a manual configuration process that
involved editing the file Modules/Setup.  While this file still exists
and manual configuration is still supported, it is rarely needed any
more: almost all modules are automatically built as appropriate under
guidance of the setup.py script, which is run by Make after the
interpreter has been built.


Troubleshooting
---------------

See also the platform specific notes in the next section.

If you run into other trouble, see the FAQ
(http://www.python.org/doc/faq/) for hints on what can go wrong, and
how to fix it.

If you rerun the configure script with different options, remove all
object files by running "make clean" before rebuilding.  Believe it or
not, "make clean" sometimes helps to clean up other inexplicable
problems as well.  Try it before sending in a bug report!

If the configure script fails or doesn't seem to find things that
should be there, inspect the config.log file.

If you get a warning for every file about the -Olimit option being no
longer supported, you can ignore it.  There's no foolproof way to know
whether this option is needed; all we can do is test whether it is
accepted without error.  On some systems, e.g. older SGI compilers, it
is essential for performance (specifically when compiling ceval.c,
which has more basic blocks than the default limit of 1000).  If the
warning bothers you, edit the Makefile to remove "-Olimit 1500" from
the OPT variable.

If you get failures in test_long, or sys.maxint gets set to -1, you
are probably experiencing compiler bugs, usually related to
optimization.  This is a common problem with some versions of gcc, and
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some vendor-supplied compilers, which can sometimes be worked around
by turning off optimization.  Consider switching to stable versions
(gcc 2.95.2, gcc 3.x, or contact your vendor.)

From Python 2.0 onward, all Python C code is ANSI C.  Compiling using
old K&R-C-only compilers is no longer possible.  ANSI C compilers are
available for all modern systems, either in the form of updated
compilers from the vendor, or one of the free compilers (gcc).

If "make install" fails mysteriously during the "compiling the library"
step, make sure that you don't have any of the PYTHONPATH or PYTHONHOME
environment variables set, as they may interfere with the newly built
executable which is compiling the library.

Unsupported systems
-------------------

A number of systems are not supported in Python 2.7 anymore. Some
support code is still present, but will be removed in later versions.
If you still need to use current Python versions on these systems,
please send a message to python-dev@python.org indicating that you
volunteer to support this system. For a more detailed discussion
regarding no-longer-supported and resupporting platforms, as well
as a list of platforms that became or will be unsupported, see PEP 11.

More specifically, the following systems are not supported any
longer:
- SunOS 4
- DYNIX
- dgux
- Minix
- NeXT
- Irix 4 and --with-sgi-dl
- Linux 1
- Systems defining __d6_pthread_create (configure.ac)
- Systems defining PY_PTHREAD_D4, PY_PTHREAD_D6,
  or PY_PTHREAD_D7 in thread_pthread.h
- Systems using --with-dl-dld
- Systems using --without-universal-newlines
- MacOS 9
- Systems using --with-wctype-functions
- Win9x, WinME


Platform specific notes
-----------------------

(Some of these may no longer apply.  If you find you can build Python
on these platforms without the special directions mentioned here,
submit a documentation bug report to SourceForge (see Bug Reports
above) so we can remove them!)

Unix platforms: If your vendor still ships (and you still use) Berkeley DB
        1.85 you will need to edit Modules/Setup to build the bsddb185
        module and add a line to sitecustomize.py which makes it the
        default.  In Modules/Setup a line like

            bsddb185 bsddbmodule.c

        should work.  (You may need to add -I, -L or -l flags to direct the
        compiler and linker to your include files and libraries.)
```

```
XXX I think this next bit is out of date:

64-bit platforms: The modules audioop, and imageop don't work.
        The setup.py script disables them on 64-bit installations.
        Don't try to enable them in the Modules/Setup file.  They
        contain code that is quite wordsize sensitive.  (If you have a
        fix, let us know!)

Solaris: When using Sun's C compiler with threads, at least on Solaris
        2.5.1, you need to add the "-mt" compiler option (the simplest
        way is probably to specify the compiler with this option as
        the "CC" environment variable when running the configure
        script).

        When using GCC on Solaris, beware of binutils 2.13 or GCC
        versions built using it.  This mistakenly enables the
        -zcombreloc option which creates broken shared libraries on
        Solaris.  binutils 2.12 works, and the binutils maintainers
        are aware of the problem.  Binutils 2.13.1 only partially
        fixed things.  It appears that 2.13.2 solves the problem
        completely.  This problem is known to occur with Solaris 2.7
        and 2.8, but may also affect earlier and later versions of the
        OS.

        When the dynamic loader complains about errors finding shared
        libraries, such as

        ld.so.1: ./python: fatal: libstdc++.so.5: open failed:
        No such file or directory

        you need to first make sure that the library is available on
        your system. Then, you need to instruct the dynamic loader how
        to find it. You can choose any of the following strategies:

        1. When compiling Python, set LD_RUN_PATH to the directories
           containing missing libraries.
        2. When running Python, set LD_LIBRARY_PATH to these directories.
        3. Use crle(8) to extend the search path of the loader.
        4. Modify the installed GCC specs file, adding -R options into the
           *link: section.

        The complex object fails to compile on Solaris 10 with gcc 3.4 (at
        least up to 3.4.3).  To work around it, define Py_HUGE_VAL as
        HUGE_VAL(), e.g.:

          make CPPFLAGS='-D"Py_HUGE_VAL=HUGE_VAL()" -I. -I$(srcdir)/Include'
          ./python setup.py CPPFLAGS='-D"Py_HUGE_VAL=HUGE_VAL()"'

Linux:  A problem with threads and fork() was tracked down to a bug in
        the pthreads code in glibc version 2.0.5; glibc version 2.0.7
        solves the problem.  This causes the popen2 test to fail;
        problem and solution reported by Pablo Bleyer.

Red Hat Linux: Red Hat 9 built Python2.2 in UCS-4 mode and hacked
        Tcl to support it. To compile Python2.3 with Tkinter, you will
        need to pass --enable-unicode=ucs4 flag to ./configure.

        There's an executable /usr/bin/python which is Python
        1.5.2 on most older Red Hat installations; several key Red Hat tools
        require this version.  Python 2.1.x may be installed as
        /usr/bin/python2.  The Makefile installs Python as
        /usr/local/bin/python, which may or may not take precedence
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        over /usr/bin/python, depending on how you have set up $PATH.

FreeBSD 3.x and probably platforms with NCurses that use libmytinfo or
        similar: When using cursesmodule, the linking is not done in
        the correct order with the defaults.  Remove "-ltermcap" from
        the readline entry in Setup, and use as curses entry: "curses
        cursesmodule.c -lmytinfo -lncurses -ltermcap" - "mytinfo" (so
        called on FreeBSD) should be the name of the auxiliary library
        required on your platform.  Normally, it would be linked
        automatically, but not necessarily in the correct order.

BSDI:   BSDI versions before 4.1 have known problems with threads,
        which can cause strange errors in a number of modules (for
        instance, the 'test_signal' test script will hang forever.)
        Turning off threads (with --with-threads=no) or upgrading to
        BSDI 4.1 solves this problem.

DEC Unix: Run configure with --with-dec-threads, or with
        --with-threads=no if no threads are desired (threads are on by
        default).  When using GCC, it is possible to get an internal
        compiler error if optimization is used.  This was reported for
        GCC 2.7.2.3 on selectmodule.c.  Manually compile the affected
        file without optimization to solve the problem.

DEC Ultrix: compile with GCC to avoid bugs in the native compiler,
        and pass SHELL=/bin/sh5 to Make when installing.

AIX:    A complete overhaul of the shared library support is now in
        place.  See Misc/AIX-NOTES for some notes on how it's done.
        (The optimizer bug reported at this place in previous releases
        has been worked around by a minimal code change.) If you get
        errors about pthread_* functions, during compile or during
        testing, try setting CC to a thread-safe (reentrant) compiler,
        like "cc_r".  For full C++ module support, set CC="xlC_r" (or
        CC="xlC" without thread support).

AIX 5.3: To build a 64-bit version with IBM's compiler, I used the
        following:

        export PATH=/usr/bin:/usr/vacpp/bin
        ./configure --with-gcc="xlc_r -q64" --with-cxx="xlC_r -q64" \
                    --disable-ipv6 AR="ar -X64"
        make

HP-UX:  When using threading, you may have to add -D_REENTRANT to the
        OPT variable in the top-level Makefile; reported by Pat Knight,
        this seems to make a difference (at least for HP-UX 10.20)
        even though pyconfig.h defines it. This seems unnecessary when
        using HP/UX 11 and later - threading seems to work "out of the
        box".

HP-UX ia64: When building on the ia64 (Itanium) platform using HP's
        compiler, some experience has shown that the compiler's
        optimiser produces a completely broken version of python
        (see http://bugs.python.org/814976). To work around this,
        edit the Makefile and remove -O from the OPT line.

        To build a 64-bit executable on an Itanium 2 system using HP's
        compiler, use these environment variables:

                CC=cc
                CXX=aCC
```

```
                BASECFLAGS="+DD64"
                LDFLAGS="+DD64 -lxnet"

        and call configure as:

                ./configure --without-gcc

        then *unset* the environment variables again before running
        make.  (At least one of these flags causes the build to fail
        if it remains set.)  You still have to edit the Makefile and
        remove -O from the OPT line.

HP PA-RISC 2.0: A recent bug report (http://bugs.python.org/546117)
        suggests that the C compiler in this 64-bit system has bugs
        in the optimizer that break Python.  Compiling without
        optimization solves the problems.

SCO:    The following apply to SCO 3 only; Python builds out of the box
        on SCO 5 (or so we've heard).

        1) Everything works much better if you add -U__STDC__ to the
        defs.  This is because all the SCO header files are broken.
        Anything that isn't mentioned in the C standard is
        conditionally excluded when __STDC__ is defined.

        2) Due to the U.S. export restrictions, SCO broke the crypt
        stuff out into a separate library, libcrypt_i.a so the LIBS
        needed be set to:

                LIBS=' -lsocket -lcrypt_i'

UnixWare: There are known bugs in the math library of the system, as well as
        problems in the handling of threads (calling fork in one
        thread may interrupt system calls in others). Therefore, test_math and
        tests involving threads will fail until those problems are fixed.

QNX:    Chris Herborth (chrish@qnx.com) writes:
        configure works best if you use GNU bash; a port is available on
        ftp.qnx.com in /usr/free.  I used the following process to build,
        test and install Python 1.5.x under QNX:

        1) CONFIG_SHELL=/usr/local/bin/bash CC=cc RANLIB=: \
            ./configure --verbose --without-gcc --with-libm=""

        2) edit Modules/Setup to activate everything that makes sense for
           your system... tested here at QNX with the following modules:

                array, audioop, binascii, cPickle, cStringIO, cmath,
                crypt, curses, errno, fcntl, gdbm, grp, imageop,
                _locale, math, md5, new, operator, parser, pcre,
                posix, pwd, readline, regex, reop,
                select, signal, socket, soundex, strop, struct,
                syslog, termios, time, timing, zlib, audioop, imageop

        3) make SHELL=/usr/local/bin/bash

           or, if you feel the need for speed:

           make SHELL=/usr/local/bin/bash OPT="-5 -Oil+nrt"

        4) make SHELL=/usr/local/bin/bash test
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            Using GNU readline 2.2 seems to behave strangely, but I
            think that's a problem with my readline 2.2 port.  :-\

         5) make SHELL=/usr/local/bin/bash install

         If you get SIGSEGVs while running Python (I haven't yet, but
         I've only run small programs and the test cases), you're
         probably running out of stack; the default 32k could be a
         little tight.  To increase the stack size, edit the Makefile
         to read: LDFLAGS = -N 48k

BeOS:    See Misc/BeOS-NOTES for notes about compiling/installing
         Python on BeOS R3 or later.  Note that only the PowerPC
         platform is supported for R3; both PowerPC and x86 are
         supported for R4.

Cray T3E: Mark Hadfield (m.hadfield@niwa.co.nz) writes:
         Python can be built satisfactorily on a Cray T3E but based on
         my experience with the NIWA T3E (2002-05-22, version 2.2.1)
         there are a few bugs and gotchas. For more information see a
         thread on comp.lang.python in May 2002 entitled "Building
         Python on Cray T3E".

         1) Use Cray's cc and not gcc. The latter was reported not to
            work by Konrad Hinsen. It may work now, but it may not.

         2) To set sys.platform to something sensible, pass the
            following environment variable to the configure script:

              MACHDEP=unicosmk

         2) Run configure with option "--enable-unicode=ucs4".

         3) The Cray T3E does not support dynamic linking, so extension
            modules have to be built by adding (or uncommenting) lines
            in Modules/Setup. The minimum set of modules is

              posix, new, _sre, unicodedata

            On NIWA's vanilla T3E system the following have also been
            included successfully:

              _codecs, _locale, _socket, _symtable, _testcapi, _weakref
              array, binascii, cmath, cPickle, crypt, cStringIO, dbm
              errno, fcntl, grp, math, md5, operator, parser, pcre, pwd
              regex, rotor, select, struct, strop, syslog, termios
              time, timing, xreadlines

         4) Once the python executable and library have been built, make
            will execute setup.py, which will attempt to build remaining
            extensions and link them dynamically. Each of these attempts
            will fail but should not halt the make process. This is
            normal.

         5) Running "make test" uses a lot of resources and causes
            problems on our system. You might want to try running tests
            singly or in small groups.

SGI:     SGI's standard "make" utility (/bin/make or /usr/bin/make)
         does not check whether a command actually changed the file it
         is supposed to build.  This means that whenever you say "make"
         it will redo the link step.  The remedy is to use SGI's much
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        smarter "smake" utility (/usr/sbin/smake), or GNU make.  If
        you set the first line of the Makefile to #!/usr/sbin/smake
        smake will be invoked by make (likewise for GNU make).

        WARNING: There are bugs in the optimizer of some versions of
        SGI's compilers that can cause bus errors or other strange
        behavior, especially on numerical operations.  To avoid this,
        try building with "make OPT=".

OS/2:   If you are running Warp3 or Warp4 and have IBM's VisualAge C/C++
        compiler installed, just change into the pc\os2vacpp directory
        and type NMAKE.  Threading and sockets are supported by default
        in the resulting binaries of PYTHON15.DLL and PYTHON.EXE.

Reliant UNIX: The thread support does not compile on Reliant UNIX, and
        there is a (minor) problem in the configure script for that
        platform as well.  This should be resolved in time for a
        future release.

MacOSX: The tests will crash on both 10.1 and 10.2 with SEGV in
        test_re and test_sre due to the small default stack size.  If
        you set the stack size to 2048 before doing a "make test" the
        failure can be avoided.  If you're using the tcsh or csh shells,
        use "limit stacksize 2048" and for the bash shell (the default
        as of OSX 10.3), use "ulimit -s 2048".

        On naked Darwin you may want to add the configure option
        "--disable-toolbox-glue" to disable the glue code for the Carbon
        interface modules. The modules themselves are currently only built
        if you add the --enable-framework option, see below.

        On a clean OSX /usr/local does not exist. Do a
        "sudo mkdir -m 775 /usr/local"
        before you do a make install. It is probably not a good idea to
        do "sudo make install" which installs everything as superuser,
        as this may later cause problems when installing distutils-based
        additions.

        Some people have reported problems building Python after using "fink"
        to install additional unix software. Disabling fink (remove all
        references to /sw from your .profile or .login) should solve this.

        You may want to try the configure option "--enable-framework"
        which installs Python as a framework. The location can be set
        as argument to the --enable-framework option (default
        /Library/Frameworks). A framework install is probably needed if you
        want to use any Aqua-based GUI toolkit (whether Tkinter, wxPython,
        Carbon, Cocoa or anything else).

        You may also want to try the configure option "--enable-universalsdk"
        which builds Python as a universal binary with support for the
        i386 and PPC architetures. This requires Xcode 2.1 or later to build.

        See Mac/README for more information on framework and
        universal builds.

Cygwin: With recent (relative to the time of writing, 2001-12-19)
        Cygwin installations, there are problems with the interaction
        of dynamic linking and fork().  This manifests itself in build
        failures during the execution of setup.py.

        There are two workarounds that both enable Python (albeit
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without threading support) to build and pass all tests on
NT/2000 (and most likely XP as well, though reports of testing
on XP would be appreciated).

The workarounds:

(a) the band-aid fix is to link the _socket module statically
rather than dynamically (which is the default).

To do this, run "./configure --with-threads=no" including any
other options you need (--prefix, etc.).  Then in Modules/Setup
uncomment the lines:

#SSL=/usr/local/ssl
#_socket socketmodule.c \
#       -DUSE_SSL -I$(SSL)/include -I$(SSL)/include/openssl \
#       -L$(SSL)/lib -lssl -lcrypto

and remove "local/" from the SSL variable.  Finally, just run
"make"!

(b) The "proper" fix is to rebase the Cygwin DLLs to prevent
base address conflicts.  Details on how to do this can be
found in the following mail:

   http://sources.redhat.com/ml/cygwin/2001-12/msg00894.html

It is hoped that a version of this solution will be
incorporated into the Cygwin distribution fairly soon.

Two additional problems:

(1) Threading support should still be disabled due to a known
bug in Cygwin pthreads that causes test_threadedtempfile to
hang.

(2) The _curses module does not build.  This is a known
Cygwin ncurses problem that should be resolved the next time
that this package is released.

On older versions of Cygwin, test_poll may hang and test_strftime
may fail.

The situation on 9X/Me is not accurately known at present.
Some time ago, there were reports that the following
regression tests failed:

    test_pwd
    test_select (hang)
    test_socket

Due to the test_select hang on 9X/Me, one should run the
regression test using the following:

    make TESTOPTS='-l -x test_select' test

News regarding these platforms with more recent Cygwin
versions would be appreciated!

Windows: When executing Python scripts on the command line using file type
        associations (i.e. starting "script.py" instead of "python script.py"),
        redirects may not work unless you set a specific registry key.  See
```

```
        the Knowledge Base article <http://support.microsoft.com/kb/321788>.


Configuring the bsddb and dbm modules
-------------------------------------

Beginning with Python version 2.3, the PyBsddb package
<http://pybsddb.sf.net/> was adopted into Python as the bsddb package,
exposing a set of package-level functions which provide
backwards-compatible behavior.  Only versions 3.3 through 4.4 of
Sleepycat's libraries provide the necessary API, so older versions
aren't supported through this interface.  The old bsddb module has
been retained as bsddb185, though it is not built by default.  Users
wishing to use it will have to tweak Modules/Setup to build it.  The
dbm module will still be built against the Sleepycat libraries if
other preferred alternatives (ndbm, gdbm) are not found.

Building the sqlite3 module
---------------------------

To build the sqlite3 module, you'll need the sqlite3 or libsqlite3
packages installed, including the header files. Many modern operating
systems distribute the headers in a separate package to the library -
often it will be the same name as the main package, but with a -dev or
-devel suffix.

The version of pysqlite2 that's including in Python needs sqlite3 3.0.8
or later. setup.py attempts to check that it can find a correct version.

Configuring threads
-------------------

As of Python 2.0, threads are enabled by default.  If you wish to
compile without threads, or if your thread support is broken, pass the
--with-threads=no switch to configure.  Unfortunately, on some
platforms, additional compiler and/or linker options are required for
threads to work properly.  Below is a table of those options,
collected by Bill Janssen.  We would love to automate this process
more, but the information below is not enough to write a patch for the
configure.ac file, so manual intervention is required.  If you patch
the configure.ac file and are confident that the patch works, please
send in the patch.  (Don't bother patching the configure script itself
-- it is regenerated each time the configure.ac file changes.)

Compiler switches for threads
.............................

The definition of _REENTRANT should be configured automatically, if
that does not work on your system, or if _REENTRANT is defined
incorrectly, please report that as a bug.

    OS/Compiler/threads                     Switches for use with threads
    (POSIX is draft 10, DCE is draft 4)     compile & link

    SunOS 5.{1-5}/{gcc,SunPro cc}/solaris   -mt
    SunOS 5.5/{gcc,SunPro cc}/POSIX         (nothing)
    DEC OSF/1 3.x/cc/DCE                    -threads
            (butenhof@zko.dec.com)
    Digital UNIX 4.x/cc/DCE                 -threads
            (butenhof@zko.dec.com)
    Digital UNIX 4.x/cc/POSIX               -pthread
            (butenhof@zko.dec.com)
```

```
    AIX 4.1.4/cc_r/d7                       (nothing)
            (buhrt@iquest.net)
    AIX 4.1.4/cc_r4/DCE                     (nothing)
            (buhrt@iquest.net)
    IRIX 6.2/cc/POSIX                       (nothing)
            (robertl@cwi.nl)


Linker (ld) libraries and flags for threads
.......................................

    OS/threads                          Libraries/switches for use with threads

    SunOS 5.{1-5}/solaris               -lthread
    SunOS 5.5/POSIX                     -lpthread
    DEC OSF/1 3.x/DCE                   -lpthreads -lmach -lc_r -lc
            (butenhof@zko.dec.com)
    Digital UNIX 4.x/DCE                -lpthreads -lpthread -lmach -lexc -lc
            (butenhof@zko.dec.com)
    Digital UNIX 4.x/POSIX              -lpthread -lmach -lexc -lc
            (butenhof@zko.dec.com)
    AIX 4.1.4/{draft7,DCE}              (nothing)
            (buhrt@iquest.net)
    IRIX 6.2/POSIX                      -lpthread
            (jph@emilia.engr.sgi.com)


Building a shared libpython
---------------------------

Starting with Python 2.3, the majority of the interpreter can be built
into a shared library, which can then be used by the interpreter
executable, and by applications embedding Python. To enable this feature,
configure with --enable-shared.

If you enable this feature, the same object files will be used to create
a static library.  In particular, the static library will contain object
files using position-independent code (PIC) on platforms where PIC flags
are needed for the shared library.


Configuring additional built-in modules
---------------------------------------

Starting with Python 2.1, the setup.py script at the top of the source
distribution attempts to detect which modules can be built and
automatically compiles them.  Autodetection doesn't always work, so
you can still customize the configuration by editing the Modules/Setup
file; but this should be considered a last resort.  The rest of this
section only applies if you decide to edit the Modules/Setup file.
You also need this to enable static linking of certain modules (which
is needed to enable profiling on some systems).

This file is initially copied from Setup.dist by the configure script;
if it does not exist yet, create it by copying Modules/Setup.dist
yourself (configure will never overwrite it).  Never edit Setup.dist
-- always edit Setup or Setup.local (see below).  Read the comments in
the file for information on what kind of edits are allowed.  When you
have edited Setup in the Modules directory, the interpreter will
automatically be rebuilt the next time you run make (in the toplevel
directory).
```

```
Many useful modules can be built on any Unix system, but some optional
modules can't be reliably autodetected.  Often the quickest way to
determine whether a particular module works or not is to see if it
will build: enable it in Setup, then if you get compilation or link
errors, disable it -- you're either missing support or need to adjust
the compilation and linking parameters for that module.

On SGI IRIX, there are modules that interface to many SGI specific
system libraries, e.g. the GL library and the audio hardware.  These
modules will not be built by the setup.py script.

In addition to the file Setup, you can also edit the file Setup.local.
(the makesetup script processes both).  You may find it more
convenient to edit Setup.local and leave Setup alone.  Then, when
installing a new Python version, you can copy your old Setup.local
file.


Setting the optimization/debugging options
------------------------------------------

If you want or need to change the optimization/debugging options for
the C compiler, assign to the OPT variable on the toplevel make
command; e.g. "make OPT=-g" will build a debugging version of Python
on most platforms.  The default is OPT=-O; a value for OPT in the
environment when the configure script is run overrides this default
(likewise for CC; and the initial value for LIBS is used as the base
set of libraries to link with).

When compiling with GCC, the default value of OPT will also include
the -Wall and -Wstrict-prototypes options.

Additional debugging code to help debug memory management problems can
be enabled by using the --with-pydebug option to the configure script.

For flags that change binary compatibility, use the EXTRA_CFLAGS
variable.


Profiling
---------

If you want C profiling turned on, the easiest way is to run configure
with the CC environment variable to the necessary compiler
invocation.  For example, on Linux, this works for profiling using
gprof(1):

    CC="gcc -pg" ./configure

Note that on Linux, gprof apparently does not work for shared
libraries.  The Makefile/Setup mechanism can be used to compile and
link most extension modules statically.


Coverage checking
-----------------

For C coverage checking using gcov, run "make coverage".  This will
build a Python binary with profiling activated, and a ".gcno" and
".gcda" file for every source file compiled with that option.  With
the built binary, now run the code whose coverage you want to check.
Then, you can see coverage statistics for each individual source file
```

```
by running gcov, e.g.

    gcov -o Modules zlibmodule

This will create a "zlibmodule.c.gcov" file in the current directory
containing coverage info for that source file.

This works only for source files statically compiled into the
executable; use the Makefile/Setup mechanism to compile and link
extension modules you want to coverage-check statically.


Testing
-------

To test the interpreter, type "make test" in the top-level directory.
This runs the test set twice (once with no compiled files, once with
the compiled files left by the previous test run).  The test set
produces some output.  You can generally ignore the messages about
skipped tests due to optional features which can't be imported.
If a message is printed about a failed test or a traceback or core
dump is produced, something is wrong.  On some Linux systems (those
that are not yet using glibc 6), test_strftime fails due to a
non-standard implementation of strftime() in the C library. Please
ignore this, or upgrade to glibc version 6.

By default, tests are prevented from overusing resources like disk space and
memory.  To enable these tests, run "make testall".

IMPORTANT: If the tests fail and you decide to mail a bug report,
*don't* include the output of "make test".  It is useless.  Run the
failing test manually, as follows:

        ./python Lib/test/regrtest.py -v test_whatever

(substituting the top of the source tree for '.' if you built in a
different directory).  This runs the test in verbose mode.


Installing
----------

To install the Python binary, library modules, shared library modules
(see below), include files, configuration files, and the manual page,
just type

        make install

This will install all platform-independent files in subdirectories of
the directory given with the --prefix option to configure or to the
`prefix' Make variable (default /usr/local).  All binary and other
platform-specific files will be installed in subdirectories if the
directory given by --exec-prefix or the `exec_prefix' Make variable
(defaults to the --prefix directory) is given.

If DESTDIR is set, it will be taken as the root directory of the
installation, and files will be installed into $(DESTDIR)$(prefix),
$(DESTDIR)$(exec_prefix), etc.

All subdirectories created will have Python's version number in their
name, e.g. the library modules are installed in
"/usr/local/lib/python<version>/" by default, where <version> is the
```

```
<major>.<minor> release number (e.g. "2.1").  The Python binary is
installed as "python<version>" and a hard link named "python" is
created.  The only file not installed with a version number in its
name is the manual page, installed as "/usr/local/man/man1/python.1"
by default.

If you want to install multiple versions of Python see the section below
entitled "Installing multiple versions".

The only thing you may have to install manually is the Python mode for
Emacs found in Misc/python-mode.el.  (But then again, more recent
versions of Emacs may already have it.)  Follow the instructions that
came with Emacs for installation of site-specific files.

On Mac OS X, if you have configured Python with --enable-framework, you
should use "make frameworkinstall" to do the installation. Note that this
installs the Python executable in a place that is not normally on your
PATH, you may want to set up a symlink in /usr/local/bin.


Installing multiple versions
----------------------------

On Unix and Mac systems if you intend to install multiple versions of Python
using the same installation prefix (--prefix argument to the configure
script) you must take care that your primary python executable is not
overwritten by the installation of a different version.  All files and
directories installed using "make altinstall" contain the major and minor
version and can thus live side-by-side.  "make install" also creates
${prefix}/bin/python which refers to ${prefix}/bin/pythonX.Y.  If you intend
to install multiple versions using the same prefix you must decide which
version (if any) is your "primary" version.  Install that version using
"make install".  Install all other versions using "make altinstall".

For example, if you want to install Python 2.5, 2.6 and 3.0 with 2.6 being
the primary version, you would execute "make install" in your 2.6 build
directory and "make altinstall" in the others.


Configuration options and variables
-----------------------------------

Some special cases are handled by passing options to the configure
script.

WARNING: if you rerun the configure script with different options, you
must run "make clean" before rebuilding.  Exceptions to this rule:
after changing --prefix or --exec-prefix, all you need to do is remove
Modules/getpath.o.

--with(out)-gcc: The configure script uses gcc (the GNU C compiler) if
        it finds it.  If you don't want this, or if this compiler is
        installed but broken on your platform, pass the option
        --without-gcc.  You can also pass "CC=cc" (or whatever the
        name of the proper C compiler is) in the environment, but the
        advantage of using --without-gcc is that this option is
        remembered by the config.status script for its --recheck
        option.

--prefix, --exec-prefix: If you want to install the binaries and the
        Python library somewhere else than in /usr/local/{bin,lib},
        you can pass the option --prefix=DIRECTORY; the interpreter
```

```
        binary will be installed as DIRECTORY/bin/python and the
        library files as DIRECTORY/lib/python/*.  If you pass
        --exec-prefix=DIRECTORY (as well) this overrides the
        installation prefix for architecture-dependent files (like the
        interpreter binary).  Note that --prefix=DIRECTORY also
        affects the default module search path (sys.path), when
        Modules/config.c is compiled.  Passing make the option
        prefix=DIRECTORY (and/or exec_prefix=DIRECTORY) overrides the
        prefix set at configuration time; this may be more convenient
        than re-running the configure script if you change your mind
        about the install prefix.

--with-readline: This option is no longer supported.  GNU
        readline is automatically enabled by setup.py when present.

--with-threads: On most Unix systems, you can now use multiple
        threads, and support for this is enabled by default.  To
        disable this, pass --with-threads=no.  If the library required
        for threads lives in a peculiar place, you can use
        --with-thread=DIRECTORY.  IMPORTANT: run "make clean" after
        changing (either enabling or disabling) this option, or you
        will get link errors!  Note: for DEC Unix use
        --with-dec-threads instead.

--with-sgi-dl: On SGI IRIX 4, dynamic loading of extension modules is
        supported by the "dl" library by Jack Jansen, which is
        ftp'able from ftp://ftp.cwi.nl/pub/dynload/dl-1.6.tar.Z.
        This is enabled (after you've ftp'ed and compiled the dl
        library) by passing --with-sgi-dl=DIRECTORY where DIRECTORY
        is the absolute pathname of the dl library.  (Don't bother on
        IRIX 5, it already has dynamic linking using SunOS style
        shared libraries.)  THIS OPTION IS UNSUPPORTED.

--with-dl-dld: Dynamic loading of modules is rumored to be supported
        on some other systems: VAX (Ultrix), Sun3 (SunOS 3.4), Sequent
        Symmetry (Dynix), and Atari ST.  This is done using a
        combination of the GNU dynamic loading package
        (ftp://ftp.cwi.nl/pub/dynload/dl-dld-1.1.tar.Z) and an
        emulation of the SGI dl library mentioned above (the emulation
        can be found at
        ftp://ftp.cwi.nl/pub/dynload/dld-3.2.3.tar.Z).  To
        enable this, ftp and compile both libraries, then call
        configure, passing it the option
        --with-dl-dld=DL_DIRECTORY,DLD_DIRECTORY where DL_DIRECTORY is
        the absolute pathname of the dl emulation library and
        DLD_DIRECTORY is the absolute pathname of the GNU dld library.
        (Don't bother on SunOS 4 or 5, they already have dynamic
        linking using shared libraries.)  THIS OPTION IS UNSUPPORTED.

--with-libm, --with-libc: It is possible to specify alternative
        versions for the Math library (default -lm) and the C library
        (default the empty string) using the options
        --with-libm=STRING and --with-libc=STRING, respectively.  For
        example, if your system requires that you pass -lc_s to the C
        compiler to use the shared C library, you can pass
        --with-libc=-lc_s. These libraries are passed after all other
        libraries, the C library last.

--with-libs='libs': Add 'libs' to the LIBS that the python interpreter
        is linked against.

--with-cxx-main=<compiler>: If you plan to use C++ extension modules,
```

```
        then -- on some platforms -- you need to compile python's main()
        function with the C++ compiler. With this option, make will use
        <compiler> to compile main() *and* to link the python executable.
        It is likely that the resulting executable depends on the C++
        runtime library of <compiler>. (The default is --without-cxx-main.)

        There are platforms that do not require you to build Python
        with a C++ compiler in order to use C++ extension modules.
        E.g., x86 Linux with ELF shared binaries and GCC 3.x, 4.x is such
        a platform. We recommend that you configure Python
        --without-cxx-main on those platforms because a mismatch
        between the C++ compiler version used to build Python and to
        build a C++ extension module is likely to cause a crash at
        runtime.

        The Python installation also stores the variable CXX that
        determines, e.g., the C++ compiler distutils calls by default
        to build C++ extensions. If you set CXX on the configure command
        line to any string of non-zero length, then configure won't
        change CXX. If you do not preset CXX but pass
        --with-cxx-main=<compiler>, then configure sets CXX=<compiler>.
        In all other cases, configure looks for a C++ compiler by
        some common names (c++, g++, gcc, CC, cxx, cc++, cl) and sets
        CXX to the first compiler it finds. If it does not find any
        C++ compiler, then it sets CXX="".

        Similarly, if you want to change the command used to link the
        python executable, then set LINKCC on the configure command line.


--with-pydebug:  Enable additional debugging code to help track down
        memory management problems.  This allows printing a list of all
        live objects when the interpreter terminates.

--with(out)-universal-newlines: enable reading of text files with
        foreign newline convention (default: enabled). In other words,
        any of \r, \n or \r\n is acceptable as end-of-line character.
        If enabled import and execfile will automatically accept any newline
        in files. Python code can open a file with open(file, 'U') to
        read it in universal newline mode. THIS OPTION IS UNSUPPORTED.

--with-tsc: Profile using the Pentium timestamping counter (TSC).

--with-system-ffi:  Build the _ctypes extension module using an ffi
        library installed on the system.

--with-dbmliborder=db1:db2:...:  Specify the order that backends for the
    dbm extension are checked. Valid value is a colon separated string
    with the backend names `ndbm', `gdbm' and `bdb'.

Building for multiple architectures (using the VPATH feature)
-------------------------------------------------------------

If your file system is shared between multiple architectures, it
usually is not necessary to make copies of the sources for each
architecture you want to support.  If the make program supports the
VPATH feature, you can create an empty build directory for each
architecture, and in each directory run the configure script (on the
appropriate machine with the appropriate options).  This creates the
necessary subdirectories and the Makefiles therein.  The Makefiles
contain a line VPATH=... which points to a directory containing the
actual sources.  (On SGI systems, use "smake -J1" instead of "make" if
```

```
you use VPATH -- don't try gnumake.)

For example, the following is all you need to build a minimal Python
in /usr/tmp/python (assuming ~guido/src/python is the toplevel
directory and you want to build in /usr/tmp/python):

        $ mkdir /usr/tmp/python
        $ cd /usr/tmp/python
        $ ~guido/src/python/configure
        [...]
        $ make
        [...]
        $

Note that configure copies the original Setup file to the build
directory if it finds no Setup file there.  This means that you can
edit the Setup file for each architecture independently.  For this
reason, subsequent changes to the original Setup file are not tracked
automatically, as they might overwrite local changes.  To force a copy
of a changed original Setup file, delete the target Setup file.  (The
makesetup script supports multiple input files, so if you want to be
fancy you can change the rules to create an empty Setup.local if it
doesn't exist and run it with arguments $(srcdir)/Setup Setup.local;
however this assumes that you only need to add modules.)

Also note that you can't use a workspace for VPATH and non VPATH builds. The
object files left behind by one version confuses the other.


Building on non-UNIX systems
----------------------------

For Windows (2000/NT/ME/98/95), assuming you have MS VC++ 7.1, the
project files are in PCbuild, the workspace is pcbuild.dsw.  See
PCbuild\readme.txt for detailed instructions.

For other non-Unix Windows compilers, in particular MS VC++ 6.0 and
for OS/2, enter the directory "PC" and read the file "readme.txt".

For the Mac, a separate source distribution will be made available,
for use with the CodeWarrior compiler.  If you are interested in Mac
development, join the PythonMac Special Interest Group
(http://www.python.org/sigs/pythonmac-sig/, or send email to
pythonmac-sig-request@python.org).

Of course, there are also binary distributions available for these
platforms -- see http://www.python.org/.

To port Python to a new non-UNIX system, you will have to fake the
effect of running the configure script manually (for Mac and PC, this
has already been done for you).  A good start is to copy the file
pyconfig.h.in to pyconfig.h and edit the latter to reflect the actual
configuration of your system.  Most symbols must simply be defined as
1 only if the corresponding feature is present and can be left alone
otherwise; however the *_t type symbols must be defined as some
variant of int if they need to be defined at all.

For all platforms, it's important that the build arrange to define the
preprocessor symbol NDEBUG on the compiler command line in a release
build of Python (else assert() calls remain in the code, hurting
release-build performance).  The Unix, Windows and Mac builds already
do this.
```

```
Miscellaneous issues
====================

Emacs mode
----------

There's an excellent Emacs editing mode for Python code; see the file
Misc/python-mode.el.  Originally written by the famous Tim Peters, it is now
maintained by the equally famous Barry Warsaw.  The latest version, along with
various other contributed Python-related Emacs goodies, is online at
http://launchpad.net/python-mode/.


Tkinter
-------

The setup.py script automatically configures this when it detects a
usable Tcl/Tk installation.  This requires Tcl/Tk version 8.0 or
higher.

For more Tkinter information, see the Tkinter Resource page:
http://www.python.org/topics/tkinter/

There are demos in the Demo/tkinter directory.

Note that there's a Python module called "Tkinter" (capital T) which
lives in Lib/lib-tk/Tkinter.py, and a C module called "_tkinter"
(lower case t and leading underscore) which lives in
Modules/_tkinter.c.  Demos and normal Tk applications import only the
Python Tkinter module -- only the latter imports the C _tkinter
module.  In order to find the C _tkinter module, it must be compiled
and linked into the Python interpreter -- the setup.py script does
this.  In order to find the Python Tkinter module, sys.path must be
set correctly -- normal installation takes care of this.


Distribution structure
----------------------

Most subdirectories have their own README files.  Most files have
comments.

Demo/           Demonstration scripts, modules and programs
Doc/            Documentation sources (reStructuredText)
Grammar/        Input for the parser generator
Include/        Public header files
LICENSE         Licensing information
Lib/            Python library modules
Mac/            Macintosh specific resources
Makefile.pre.in Source from which config.status creates the Makefile.pre
Misc/           Miscellaneous useful files
Modules/        Implementation of most built-in modules
Objects/        Implementation of most built-in object types
PC/             Files specific to PC ports (DOS, Windows, OS/2)
PCbuild/        Build directory for Microsoft Visual C++
Parser/         The parser and tokenizer and their input handling
Python/         The byte-compiler and interpreter
README          The file you're reading now
RISCOS/         Files specific to RISC OS port
Tools/          Some useful programs written in Python
```

```
pyconfig.h.in   Source from which pyconfig.h is created (GNU autoheader output)
configure       Configuration shell script (GNU autoconf output)
configure.ac    Configuration specification (input for GNU autoconf)
install-sh      Shell script used to install files
setup.py        Python script used to build extension modules

The following files will (may) be created in the toplevel directory by
the configuration and build processes:

Makefile        Build rules
Makefile.pre    Build rules before running Modules/makesetup
buildno         Keeps track of the build number
config.cache    Cache of configuration variables
pyconfig.h      Configuration header
config.log      Log from last configure run
config.status   Status from last run of the configure script
getbuildinfo.o  Object file from Modules/getbuildinfo.c
libpython<version>.a    The library archive
python          The executable interpreter
reflog.txt      Output from running the regression suite with the -R flag
tags, TAGS      Tags files for vi and Emacs


That's all, folks!
------------------


--Guido van Rossum (home page: http://www.python.org/~guido/)
```

Python 3.6.8-17

```
From https://docs.python.org/3.6/license.html
----------
History and License
History of the software
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 Pythons 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 https://www.zope.org/). 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.

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

Release

Derived from

Year

Owner
```

GPL compatible?

0.9.0 thru 1.2

n/a

1991-1995

CWI

yes

1.3 thru 1.5.2

1.2

1995-1999

CNRI

yes

1.6

1.5.2

2000

CNRI

no

2.0

1.6

2000

BeOpen.com

no

1.6.1

1.6

2001

CNRI

no

2.1

2.0+1.6.1

2001

PSF

no

2.0.1

2.0+1.6.1

2001

PSF

yes

2.1.1

2.1+2.0.1

2001

PSF

yes

2.1.2

2.1.1

2002

PSF

yes

2.1.3

2.1.2

2002

PSF

yes

2.2 and above

2.1.1

2001-now

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu
cfuhash
The implementation of the hash table used by the tracemalloc is based on the cfuhash
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Python 3.6.8-18.0.5

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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.
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All Python releases are Open Source (see http://www.opensource.org for
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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Mersenne Twister
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u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from
the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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----------
Sockets
The socket module uses the functions, getaddrinfo(), and getnameinfo(), which are coded
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard

----------
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Original location:
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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
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cfuhash
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Python 3.11.9-2.0.1

SRC.RPM: https://yum.oracle.com/repo/OracleLinux/OL8/appstream/x86_64/getPackage/python3.11-3.11.9-2.0.1.el8_10.x86_64.rpm

```
******************
History and License
******************


History of the software
=======================

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
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Mersenne Twister
----------------

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are
the verbatim comments from the original code::

   A C-program for MT19937, with initialization improved 2002/1/26.
   Coded by Takuji Nishimura and Makoto Matsumoto.

   Before using, initialize the state by using init_genrand(seed)
   or init_by_array(init_key, key_length).

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   http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
   email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)


Sockets
-------
```

```
The :mod:`socket` module uses the functions, :c:func:`!getaddrinfo`, and
:c:func:`!getnameinfo`, which are coded in separate source files from the WIDE
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Asynchronous socket services
----------------------------

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-----------------
```

```
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-----------------

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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
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   - Arguments more compliant with Python standard


XML Remote Procedure Calls
--------------------------

The :mod:`xmlrpc.client` module contains the following notice::

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test_epoll
----------
```

```
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Select kqueue
-------------

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---------

The file :file:`Python/pyhash.c` contains Marek Majkowski' implementation of
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```
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  Original location:
     https://github.com/majek/csiphash/

  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
strtod for conversion of C doubles to and from strings, is derived
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OpenSSL
-------

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-----

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----

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-------

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--------

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W3C C14N test suite
-------------------

The C14N 2.0 test suite in the :mod:`test` package
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Audioop
-------

The audioop module uses the code base in g771.c file of the SoX project.
https://sourceforge.net/projects/sox/files/sox/12.17.7/sox-12.17.7.tar.gz

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asyncio
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python3-saml

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python-asn1

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python-dateutil 2.8.2

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python-libs

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
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2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
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python-swiftclient 4.5.0

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python-xmlsec

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pytz 2021.1

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Pytz 2024.1

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PyYAML 5.4.1

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Tiny Code Generator for QEMU

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================================================================================
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qemu has the following 4th party dependencies :

seabios-bin         1.11.0-2
sgabios-bin         0.20110622svn-4
ipxe-roms-qemu      20180825-3.git133f4c.el7
python              2.7.5-89.0.1.el7


================================================================================
=====
4th party 1:  seabios-bin
https://github.com/coreboot/seabios

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4th party 3: ipxe-roms-qemu

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4th party 4: python2

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

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no

2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.7	2.6	2010	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
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other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
because its license has a choice of law clause. According to
CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
is "not incompatible" with the GPL.

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

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erlang 22.2

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exometer_slide.erl
------------------
%% This file is a copy of exometer_slide.erl from https://github.com/Feuerlabs/
exometer_core,
%% with the following modifications:
%%
%% 1) The elements are tuples of numbers
%%
```

```
%% 2) Only one element for each expected interval point is added, intermediate values
%%    are discarded. Thus, if we have a window of 60s and interval of 5s, at max 12
elements
%%    are stored.
%%
%% 3) Additions can be provided as increments to the last value stored
%%
%% 4) sum/1 implements the sum of several slides, generating a new timestamp sequence
based
%%    on the given intervals. Elements on each window are added to the closest interval
point.
%%
%% Original commit: https://github.com/Feuerlabs/exometer_core/commit/
2759edc804211b5245867b32c9a20c8fe1d93441
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%% ----------------------------------------------------------------------
%%
%% @author Tony Rogvall <tony@rogvall.se>
%% @author Ulf Wiger <ulf@feuerlabs.com>
%% @author Magnus Feuer <magnus@feuerlabs.com>
%%
%% @doc Efficient sliding-window buffer
%%
%% Initial implementation: 29 Sep 2009 by Tony Rogvall
%%
%% This module implements an efficient sliding window, maintaining
%% two lists - a primary and a secondary. Values are paired with a
%% timestamp (millisecond resolution, see `timestamp/0')
%% and prepended to the primary list. When the time span between the oldest
%% and the newest entry in the primary list exceeds the given window size,
%% the primary list is shifted into the secondary list position, and the
%% new entry is added to a new (empty) primary list.
%%
%% The window can be converted to a list using `to_list/1'.
%% @end
%%
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    a purpose that is entirely well-defined independent of the
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This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/
certdata.txt
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regerror.c:
regexec.c:
regint.h:
regparse.c:
regparse.h:
enc/ascii.c:
enc/big5.c:
enc/cp949.c:
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enc/iso_8859_14.c:
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enc/iso_8859_16.c:
enc/iso_8859_2.c:
enc/iso_8859_3.c:
enc/iso_8859_4.c:
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enc/shift_jis.c:
enc/unicode.c:
enc/us_ascii.c:
enc/utf_16be.c:
enc/utf_16le.c:
enc/utf_32be.c:
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    Coded by Takuji Nishimura and Makoto Matsumoto.
    This is a faster version by taking Shawn Cokus's optimization,
    Matthe Bellew's simplification, Isaku Wada's real version.

    Before using, initialize the state by using init_genrand(seed)
    or init_by_array(init_key, key_length).

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Fourth party dependencies:
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```

```
  joda-time:joda-time
  org.apache.commons:commons-lang3
  commons-codec:commons-codec
  org.slf4j:slf4j-api

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4th party 5: slf4j-api
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Simple Logging Facade for Java (SLF4J ) 1.7.30

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.
In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation.  In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
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All Python releases are Open Source (see https://opensource.org for
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    Release         Derived     Year        Owner       GPL-
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    0.9.0 thru 1.2              1991-1995   CWI         yes
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    1.6             1.5.2       2000        CNRI        no
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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
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slf4j-nop
slf4j-jdk14
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jcl-over-slf4j
log4j-over-slf4j
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osgi-over-slf4j
integration
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simpleclient_pushgateway

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    egrep '\.(go|proto|py|sh)$' | grep -v '\.pb\.go$'`
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* [Go](#go)

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github.com/Azure/go-autorest/autorest
github.com/Azure/go-autorest/autorest/adal
github.com/Azure/go-autorest/autorest/azure/auth
github.com/Azure/go-autorest/autorest/azure/cli
github.com/Azure/go-autorest/autorest/date
github.com/Azure/go-autorest/autorest/to
github.com/Azure/go-autorest/autorest/validation
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github.com/Azure/go-autorest/logger
github.com/Azure/go-autorest/tracing
github.com/Mellanox/rdmamap
github.com/aerospike/aerospike-client-go
github.com/apache/thrift
github.com/aristanetworks/glog
github.com/aristanetworks/goarista
github.com/aws/aws-sdk-go
github.com/aws/aws-sdk-go-v2
github.com/aws/aws-sdk-go-v2/config
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github.com/aws/aws-sdk-go-v2/feature/ec2/imds
github.com/aws/aws-sdk-go-v2/service/ec2
github.com/aws/aws-sdk-go-v2/service/internal/presigned-url
github.com/aws/aws-sdk-go-v2/service/sso
github.com/aws/aws-sdk-go-v2/service/sts
github.com/aws/smithy-go
github.com/cisco-ie/nx-telemetry-proto
github.com/containerd/containerd
github.com/dimchansky/utfbom
github.com/docker/distribution
github.com/docker/docker
github.com/docker/go-connections
github.com/docker/go-units
github.com/go-logr/logr
github.com/gogo/googleapis
github.com/golang/geo
github.com/golang/groupcache
github.com/google/gofuzz
github.com/googleapis/gnostic
github.com/jaegertracing/jaeger
github.com/matttproud/golang_protobuf_extensions
github.com/moby/ipvs
github.com/modern-go/concurrent
github.com/modern-go/reflect2
github.com/nats-io/jwt
github.com/nats-io/nats-server/v2
github.com/nats-io/nats.go
github.com/nats-io/nkeys
github.com/nats-io/nuid
github.com/newrelic/newrelic-telemetry-sdk-go
github.com/openconfig/gnmi
github.com/opencontainers/go-digest
github.com/opencontainers/image-spec
github.com/opentracing-contrib/go-observer
github.com/opentracing/opentracing-go
github.com/prometheus/client_golang
github.com/prometheus/client_model
github.com/prometheus/common
github.com/prometheus/procfs
github.com/prometheus/prometheus
github.com/safchain/ethtool
github.com/signalfx/com_signalfx_metrics_protobuf
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github.com/xdg/scram
```

```
github.com/xdg/stringprep
go.opencensus.io
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The Falcon Web Framework 3.0.1

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-------- Copyrights
-------- Dependency
@types/color-name
-------- Copyrights
-------- Dependency
@types/fs-extra
-------- Copyrights
-------- Dependency
@types/glob-base
-------- Copyrights
-------- Dependency
@types/is-function
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@types/katex
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@types/mdast
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@types/micromatch
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@types/npmlog
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-------- Dependency
@types/overlayscrollbars
-------- Copyrights
-------- Dependency
@types/parse-json
-------- Copyrights
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-------- Dependency
@types/pretty-hrtime
-------- Copyrights
-------- Dependency
@types/prop-types
-------- Copyrights
-------- Dependency
@types/react-textarea-autosize
-------- Copyrights
-------- Dependency
@types/rimraf
-------- Copyrights
-------- Dependency
@types/scheduler
-------- Copyrights
-------- Dependency
@types/symlink-or-copy
-------- Copyrights
-------- Dependency
@types/unist
-------- Copyrights
-------- Dependencies Summary
@types/braces
@types/color-name
@types/fs-extra
@types/glob-base
@types/is-function
@types/katex
@types/mdast
@types/micromatch
@types/npmlog
@types/overlayscrollbars
@types/parse-json
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@csstools/convert-colors
-------- Copyrights
-------- Dependency
@csstools/normalize.css
-------- Copyrights
-------- Dependency
css-blank-pseudo
-------- Copyrights
-------- Dependency
css-has-pseudo
-------- Copyrights
-------- Dependency
css-prefers-color-scheme
-------- Copyrights
-------- Dependency
postcss-browser-comments
-------- Copyrights
-------- Dependency
postcss-color-functional-notation
-------- Copyrights
-------- Dependency
postcss-color-mod-function

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-------- Copyrights
-------- Dependency
postcss-dir-pseudo-class
-------- Copyrights
-------- Dependency
postcss-double-position-gradients
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-------- Dependency
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-------- Dependency
postcss-focus-visible
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-------- Dependency
postcss-focus-within
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-------- Dependency
postcss-gap-properties
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postcss-image-set-function
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postcss-lab-function
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postcss-logical
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postcss-nesting
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-------- Dependency
postcss-normalize
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-------- Dependency
postcss-overflow-shorthand
-------- Copyrights
-------- Dependency
postcss-place
-------- Copyrights
-------- Dependency
postcss-preset-env
-------- Copyrights
-------- Dependency
postcss-pseudo-class-any-link
-------- Copyrights
-------- Dependency
sanitize.css
-------- Copyrights
-------- Dependency
stylelint-media-use-custom-media
-------- Copyrights
-------- Dependency
stylelint-use-nesting
-------- Copyrights
-------- Dependency
stylelint-value-no-unknown-custom-properties
-------- Copyrights
-------- Dependencies Summary
@csstools/convert-colors
@csstools/normalize.css
css-blank-pseudo
```

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css-has-pseudo
css-prefers-color-scheme
postcss-browser-comments
postcss-color-functional-notation
postcss-color-mod-function
postcss-dir-pseudo-class
postcss-double-position-gradients
postcss-env-function
postcss-focus-visible
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postcss-logical
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sidebar_title: <code>/sys/license</code>
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.
| Method | Path           |
| :----- | :------------- |
| `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"]
}
```
Install License
This endpoint is used to install a license into Vault.
Method	Path
`PUT`	`/sys/license`
Parameters
- `text` `(string: <required>)` -he 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
```shell-session
$ curl \
    --header "X-Vault-Token: ..." \
    --request PUT \
    --data @payload.json \
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electron-to-chromium
ember-cli-version-checker
fastq
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graceful-fs
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minipass-flush
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postcss-color-gray
postcss-modules-extract-imports
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postcss-modules-values
promise-inflight
proto-list
pseudomap
remove-trailing-separator
rimraf
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silent-error
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href=example.css> </head> <body> <div class=container> <h1>React Autosize Input</h1>
<h2><a href=http://github.com/JedWatson/react-input-autosize>View project on
GitHub</a></h2> <form><div id=app></div></form> <div class=hint> Type in the text fields
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@babel/plugin-transform-object-super
@babel/plugin-transform-parameters
@babel/plugin-transform-property-literals
@babel/plugin-transform-react-display-name
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@babel/plugin-transform-react-jsx-self
@babel/plugin-transform-react-jsx-source
@babel/plugin-transform-react-pure-annotations
@babel/plugin-transform-regenerator
@babel/plugin-transform-reserved-words
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@babel/plugin-transform-spread
@babel/plugin-transform-sticky-regex
@babel/plugin-transform-template-literals
@babel/plugin-transform-typeof-symbol
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@babel/plugin-transform-unicode-escapes
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get-proxy
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get-value
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github.com/BurntSushi/toml
github.com/DataDog/datadog-go
github.com/Jeffail/gabs
github.com/Masterminds/semver
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github.com/armon/go-proxyproto
github.com/armon/go-radix
github.com/asaskevich/govalidator
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github.com/bgentry/speakeasy
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github.com/cenkalti/backoff/v3
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github.com/fatih/structs
github.com/form3tech-oss/jwt-go
github.com/fullsailor/pkcs7
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github.com/gammazero/workerpool
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github.com/go-ldap/ldap/v3
github.com/go-ldap/ldif
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github.com/hashicorp/go-syslog
github.com/hashicorp/mdns
github.com/influxdata/influxdb
github.com/jackc/pgx
github.com/jeffchao/backoff
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github.com/kr/pretty
github.com/kr/text
github.com/lib/pq
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github.com/linode/linodego
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github.com/mitchellh/go-testing-interface
github.com/mitchellh/hashstructure
github.com/mitchellh/mapstructure
github.com/mitchellh/pointerstructure
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go.uber.org/multierr
go.uber.org/zap
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trim-trailing-lines
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underscore
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unist-util-remove-position
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unist-util-visit
unist-util-visit-parents
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unset-value
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url-regex
url-to-options
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use-subscription
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util-deprecate
util.promisify
utila
utils-merge
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vfile-location
vfile-message
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webpack-bundle-analyzer
webpack-dev-middleware
webpack-filter-warnings-plugin
webpack-hot-middleware
webpack-log
webpack-sources
webpack-virtual-modules
whatwg-fetch
whatwg-url
which-boxed-primitive
which-pm-runs
widest-line
word-wrap
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websocket-client-python

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needs-restarting.py
repo-check.py
repo-graph.py
repo-rss-py
repoclosure.py
repo-diff.py
repo manage.py
repoquery.py
reposync.py
repotrack.py
show-changed-rco.py
verifytree.py
yum-builddep.py
yum-complete-transaction.py
yum-debug-dump.py
yum-debug-restore.py
yum-util-cli-template
yumdownloader.py
yum v3.4.3
yum/callback.py
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github.com/golang/protobuf
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github.com/google/uuid
github.com/googleapis/gax-go/v2
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github.com/alecthomas/units
github.com/andreyvit/diff
github.com/asaskevich/govalidator
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github.com/bgentry/speakeasy
github.com/blang/semver
github.com/client9/misspell
github.com/cpuguy83/go-md2man
github.com/creack/pty
github.com/dgrijalva/jwt-go
github.com/dustin/go-humanize
github.com/emicklei/go-restful
github.com/go-kit/kit
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goproperties - properties file decoder for Go

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github.com/globalsign/mgo
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mgo - MongoDB driver for Go

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tomb - support for clean goroutine termination in Go.

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github.com/google/uuid
github.com/googleapis/gax-go/v2
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github.com/creack/pty
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github.com/dustin/go-humanize
github.com/emicklei/go-restful
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github.com/go-stack/stack
github.com/hpcloud/tail
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github.com/kisielk/errcheck
github.com/kisielk/gotool
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github.com/magiconair/properties

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goproperties - properties file decoder for Go

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github.com/globalsign/mgo

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mgo - MongoDB driver for Go

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github.com/golang/protobuf
github.com/google/go-cmp
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```

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github.com/spf13/pflag
golang.org/x/crypto
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github.com/gogo/protobuf
github.com/golang/protobuf
github.com/golang/snappy
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github.com/google/go-github
github.com/google/go-querystring
github.com/google/uuid
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github.com/miekg/dns
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github.com/Azure/go-autorest/autorest
github.com/Azure/go-autorest/autorest/adal
github.com/Azure/go-autorest/autorest/date
github.com/Azure/go-autorest/logger
github.com/Azure/go-autorest/tracing
github.com/docker/spdystream
github.com/go-logr/logr
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gopkg.in/yaml.v2
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github.com/googleapis/gax-go/v2
github.com/imdario/mergo
github.com/jessevdk/go-flags
github.com/spf13/pflag
golang.org/x/crypto
golang.org/x/exp
golang.org/x/lint
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github.com/go-openapi/strfmt
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 * by Eric Young (eay@cryptsoft.com).
 * The implementation was written so as to conform with Netscapes SSL.
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@webassemblyjs/leb128@1.11.1
@xtuc/long@4.2.2
cloud.google.com/go
cloud.google.com/go/storage
diff-match-patch@1.0.5
fast-text-encoding@1.0.3
github.com/FZambia/sentinel
github.com/apache/thrift
github.com/aws/aws-sdk-go
github.com/bradfitz/gomemcache
github.com/cortexproject/cortex
github.com/deepmap/oapi-codegen
github.com/go-macaron/gzip
github.com/go-macaron/inject
github.com/gogo/googleapis
github.com/gogo/status
github.com/golang-sql/civil
github.com/golang/groupcache
github.com/golang/mock
github.com/gomodule/redigo
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github.com/grafana/grafana-aws-sdk
github.com/grafana/grafana-plugin-model
github.com/grafana/grafana-plugin-sdk-go
github.com/grafana/loki
github.com/grpc-ecosystem/go-grpc-middleware
github.com/grpc-ecosystem/go-grpc-prometheus
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github.com/linkedin/goavro/v2
github.com/mattermost/xml-roundtrip-validator
github.com/matttproud/golang_protobuf_extensions
github.com/modern-go/concurrent
github.com/modern-go/reflect2
github.com/mwitkow/go-conntrack
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github.com/opentracing-contrib/go-stdlib
github.com/opentracing/opentracing-go
github.com/prometheus/client_golang
github.com/prometheus/client_model
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github.com/prometheus/procfs
github.com/prometheus/prometheus
github.com/rainycape/unidecode
github.com/russellhaering/goxmldsig
github.com/sercand/kuberesolver
github.com/sergi/go-diff
github.com/uber/jaeger-client-go
github.com/uber/jaeger-lib
github.com/unknwon/com
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google.golang.org/grpc
gopkg.in/ini.v1
gopkg.in/square/go-jose.v2
gopkg.in/yaml.v2
grafana@7.5.14
keycharm@0.2.0
long@4.0.0
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github.com/grafana/go-mssqldb
github.com/klauspost/compress
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golang.org/x/net
golang.org/x/oauth2
golang.org/x/sync
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ace.define("ace/snippets/haskell",["require","exports","module"],function(e,t,n){"use
strict";t.snippetText="snippet lang\n    {-# LANGUAGE ${1:OverloadedStrings} #-}
\nsnippet info\n    -- |\n    -- Module      :  ${1:Module.Namespace}\n    --
Copyright   :  ${2:Author} ${3:2011-2012}\n    -- License     :  ${4:BSD3}\n    --\n
-- Maintainer  :  ${5:email@something.com}\n    -- Stability   :  ${6:experimental}\n
```

```
-- Portability :  ${7:unknown}\n    --\n    -- ${8:Description}\n    --\nsnippet
import\n    import          ${1:Data.Text}\nsnippet import2\n
import          ${1:Data.Text} (${2:head})\nsnippet importq\n    import
qualified ${1:Data.Text} as ${2:T}\nsnippet inst\n    instance ${1:Monoid} ${2:Type}
where\n        ${3}\nsnippet type\n    type ${1:Type} = ${2:Type}\nsnippet data\n
data ${1:Type} = ${2:$1} ${3:Int}\nsnippet newtype\n    newtype ${1:Type}
= ${2:$1} ${3:Int}\nsnippet class\n    class ${1:Class} a where\n        ${2}\nsnippet
module\n    module `substitute(substitute(expand('%:r'), '[/\\\\]','.','g'),'^\\%(\\l*\
\.\\)\\?','','')` (\n    )    where\n    `expand('%') =~ 'Main' ? \"\\n\\nmain = do\\n
print \\\"hello world\\\"\" : \"\"`\n\nsnippet const\n    ${1:name} :: ${2:a}\n    $1
= ${3:undefined}\nsnippet fn\n    ${1:fn} :: ${2:a} -> ${3:a}\n    $1 ${4}
= ${5:undefined}\nsnippet fn2\n    ${1:fn} :: ${2:a} -> ${3:a} -> ${4:a}\n    $1 ${5}
= ${6:undefined}\nsnippet ap\n    ${1:map} ${2:fn} ${3:list}\nsnippet do\n
do\n        \nsnippet \u03bb\n    \\${1:x} -> ${2}\nsnippet \\\n    \\${1:x} -
> ${2}\nsnippet <-\n    ${1:a} <- ${2:m a}\nsnippet \u2190\n    ${1:a} <- ${2:m a}
\nsnippet ->\n    ${1:m a} -> ${2:a}\nsnippet \u2192\n    ${1:m a} -> ${2:a}\nsnippet
tup\n    (${1:a}, ${2:b})\nsnippet tup2\n    (${1:a}, ${2:b}, ${3:c})\nsnippet tup3\n
(${1:a}, ${2:b}, ${3:c}, ${4:d})\nsnippet rec\n    ${1:Record} { ${2:recFieldA}
= ${3:undefined}\n                , ${4:recFieldB} = ${5:undefined}\n                }
\nsnippet case\n    case ${1:something} of\n        ${2} -> ${3}\nsnippet let\n
let ${1} = ${2}\n    in ${3}\nsnippet where\n    where\n        ${1:fn} = ${2:undefined}
\n",t.scope="haskell"})

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is-path-inside@1.0.1
is-plain-object@2.0.4
is-redirect@1.0.0
is-retry-allowed@1.2.0
is-stream@1.1.0
is-window@1.0.2
isobject@3.0.1
isomorphic-base64@1.0.2
jest-worker@27.5.1
jquery@3.5.1
js-cookie@2.2.1
js-tokens@4.0.0
json-parse-better-errors@1.0.2
json-parse-even-better-errors@2.3.1
json-schema-traverse@0.4.1
jsurl@0.1.5
latest-version@3.1.0
lines-and-columns@1.2.4
loader-runner@4.3.0
lodash.isequal@4.5.0
lodash@4.17.21
loose-envify@1.4.0
lowercase-keys@1.0.1
make-dir@1.3.0
memoize-one@4.0.3
memoize-one@5.1.1
merge-stream@2.0.0
mime-db@1.52.0
```

```
mime-types@2.1.35
minimist@1.2.6
moment-timezone@0.5.28
moment@2.24.0
ms@2.1.3
neo-async@2.6.2
node-releases@2.0.3
nodemon@2.0.2
nopt@1.0.10
normalize-path@3.0.0
npm-run-path@2.0.2
object-assign@4.1.1
object-keys@1.1.1
p-finally@1.0.0
package-json@4.0.1
papaparse@5.3.0
parent-module@1.0.1
parse-json@5.2.0
path-is-inside@1.0.2
path-key@2.0.1
path-parse@1.0.7
path-type@4.0.0
performance-now@2.1.0
picomatch@2.3.1
pify@3.0.0
power-assert-context-formatter@1.2.0
power-assert-context-reducer-ast@1.2.0
power-assert-context-traversal@1.2.0
power-assert-formatter@1.4.1
power-assert-renderer-assertion@1.2.0
power-assert-renderer-base@1.1.1
power-assert-renderer-comparison@1.2.0
power-assert-renderer-diagram@1.2.0
power-assert-renderer-file@1.2.0
power-assert-util-string-width@1.2.0
power-assert@1.6.1
prepend-http@1.0.4
prismjs@1.21.0
prop-types@15.7.2
propagating-hammerjs@1.5.0
punycode@2.1.1
raf-schd@4.0.3
raf@3.4.1
randombytes@2.1.0
rc-align@4.0.11
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rc-motion@1.1.2
rc-trigger@4.4.3
rc-util@4.21.1
rc-util@5.21.0
re-resizable@6.9.8
react-dom@17.0.1
react-draggable@4.4.4
react-fast-compare@3.2.0
react-grid-layout@1.2.0
react-highlight-words@0.16.0
react-immutable-proptypes@2.2.0
react-input-autosize@2.2.2
react-is@16.13.1
react-lifecycles-compat@3.0.4
react-loadable@5.5.0
react-popper@2.2.4
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react-redux@7.2.0
react-resizable@1.11.1
react-sizeme@2.6.12
react-split-pane@0.1.89
react-style-proptype@3.2.2
react-virtualized-auto-sizer@1.0.2
react-window@1.8.5
react@17.0.1
readdirp@3.6.0
redux-logger@3.0.6
redux-thunk@2.3.0
redux@4.0.5
regenerator-runtime@0.13.3
regenerator-runtime@0.13.9
registry-auth-token@3.4.0
registry-url@3.1.0
reselect@4.0.0
resize-observer-polyfill@1.5.1
resolve-from@4.0.0
resolve@1.22.0
restructured@0.0.11
rst2html@1.0.4
rtl-css-js@1.15.0
safe-buffer@5.1.2
safer-buffer@2.1.2
scheduler@0.20.2
schema-utils@3.1.1
screenfull@5.2.0
search-query-parser@1.5.4
selection-is-backward@1.0.0
semver-diff@2.1.0
shallowequal@1.1.0
shebang-command@1.2.0
shebang-regex@1.0.0
slate-base64-serializer@0.2.115
slate-dev-environment@0.2.5
slate-hotkeys@0.2.11
slate-plain-serializer@0.7.10
slate-prop-types@0.5.44
slate-react-placeholder@0.2.9
slate@0.47.8
source-map-support@0.5.21
sourcemap-codec@1.4.8
stack-generator@2.0.5
stackframe@1.2.1
stacktrace-gps@3.0.4
stacktrace-js@2.0.2
string-width@2.1.1
stringifier@1.4.0
strip-ansi@4.0.0
strip-eof@1.0.0
strip-json-comments@2.0.1
stylis@4.1.1
supports-color@5.5.0
supports-color@8.1.1
supports-preserve-symlinks-flag@1.0.0
symbol-observable@1.2.0
tapable@2.2.1
term-size@1.2.0
terser-webpack-plugin@5.3.1
tether-drop@1.5.0
tether@1.4.7
```

```
throttle-debounce@2.3.0
timed-out@4.0.1
timsort@0.3.0
tiny-emitter@2.1.0
tiny-invariant@1.2.0
tiny-warning@0.0.3
tinycolor2@1.4.1
to-fast-properties@2.0.0
to-regex-range@5.0.1
toggle-selection@1.0.6
traverse@0.6.6
type-of@2.0.1
undefsafe@2.0.5
unique-string@1.0.0
unist-util-map@1.0.5
universal-deep-strict-equal@1.2.2
unzip-response@2.0.1
url-parse-lax@1.0.0
use-memo-one@1.1.2
uuid@8.3.0
warning@4.0.3
watchpack@2.3.1
webpack-sources@3.2.3
webpack@5.72.0
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github.com/go-openapi/spec
github.com/go-openapi/swag
github.com/golang/groupcache
github.com/google/gofuzz
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OCI SDK for Go 41.2.0

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Prometheus 2.32.1

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picocolors@1.0.0
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== Dependency
popper.js

== License Type
SPDX:MIT

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Version 2.0, January 2004

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github.com/go-openapi/jsonreference
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github.com/davecgh/go-spew

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@kyleshockey/object-assign-deep
@kyleshockey/xml
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asap
async
autolinker
babel-runtime
base64-js
buffer
classnames
combined-stream
cookie
core-js
create-react-class
cross-fetch
css.escape
d
deep-equal
deep-extend
delayed-stream
emitter-component
es6-iterator
es6-symbol
es6-weak-map
event-emitter
fast-json-patch
fbjs
form-data
iconv-lite
immutable
invariant
is-dom
is-promise
is-stream
isomorphic-fetch
isomorphic-form-data
js-tokens
js-yaml
lodash
lodash-es
lodash.debounce
loose-envify
lru-queue
mime-db
mime-types
next-tick
node-fetch
object-assign
performance-now
promise
prop-types
punycode
querystring
querystring-browser
querystringify
raf
randombytes
react
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react-debounce-input
react-dom
react-immutable-proptypes
react-immutable-pure-component
react-inspector
react-motion
react-redux
redux
regenerator-runtime
remarkable
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sha.js
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==
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localtime.go, localtime_test.go:
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ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil_test.go
Changes:
    * Renamed files from civil* to localtime*.
    * Package changed from civil to toml.
    * 'Local' prefix added to all structs.
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diff_test\n\nimport (\n\t\"fmt\"\n\t\"math/
rand\"\n\t\"strings\"\n\t\"testing\"\n\n\t\"golang.org/x/tools/gopls/internal/lsp/
```

```
diff\"\n\t\"golang.org/x/tools/internal/diff/difftest\"\n\t\"golang.org/x/tools/gopls/
internal/span\"\n)\n"
b := "// Copyright 2019 The Go Authors. All rights reserved.\n// Use of this source code
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diff_test\n\nimport (\n\t\"fmt\"\n\t\"math/
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template\"\n\t\"golang.org/x/tools/gopls/internal/lsp/diff\"\n\t\"golang.org/x/tools/
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github.com/go-openapi/jsonpointer
github.com/go-openapi/jsonreference
github.com/go-openapi/swag
github.com/golang/groupcache
github.com/google/gnostic-models
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go.etcd.io/etcd/api/v3
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k8s.io/api
k8s.io/apimachinery
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k8s.io/client-go
k8s.io/component-base
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k8s.io/kube-openapi
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Kubernetes klog v1

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gopkg.in/yaml.v2
k8s.io/api
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k8s.io/component-base
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aiosignal
----------
Name: aiosignal
Version: 1.3.1
Summary: aiosignal: a list of registered asynchronous callbacks
```

```
Home-page: https://github.com/aio-libs/aiosignal
Maintainer: aiohttp team <team@aiohttp.org>
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frozenlist
-----------
Name: frozenlist
Version: 1.4.1
Summary: A list-like structure which implements collections.abc.MutableSequence
Home-page: https://github.com/aio-libs/frozenlist
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python-json-logger
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certifi
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This package contains a modified version of ca-bundle.crt:

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

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

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github.com/go-logr/logr
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github.com/go-openapi/jsonpointer
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github.com/go-openapi/swag
github.com/golang/groupcache
github.com/google/gnostic-models
github.com/google/gofuzz
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google.golang.org/genproto/googleapis/rpc
google.golang.org/grpc
gopkg.in/yaml.v2
k8s.io/api
k8s.io/apimachinery
k8s.io/client-go
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rand\"\n\t\"strings\"\n\t\"testing\"\n\n\t\"github.com/google/safehtml/
template\"\n\t\"golang.org/x/tools/gopls/internal/lsp/diff\"\n\t\"golang.org/x/tools/
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localtime.go, localtime_test.go:

Originals:
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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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pydantic

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Python was created in the early 1990s by Guido van Rossum at Stichting
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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
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as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation.  In 2001, the Python Software Foundation (PSF, see
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    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
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In 1995, Guido continued his work on Python at the Corporation for National
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In May 2000, Guido and the Python core development team moved to BeOpen.com to
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2.1.1	2.1+2.0.1	2001	PSF	yes
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Mersenne Twister
----------------

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the verbatim comments from the original code::

   A C-program for MT19937, with initialization improved 2002/1/26.
   Coded by Takuji Nishimura and Makoto Matsumoto.

   Before using, initialize the state by using init_genrand(seed)
   or init_by_array(init_key, key_length).

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   http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
-------

The :mod:`socket` module uses the functions, :c:func:`!getaddrinfo`, and
```

```
:c:func:`!getnameinfo`, which are coded in separate source files from the WIDE
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Asynchronous socket services
----------------------------

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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
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   - Arguments more compliant with Python standard


XML Remote Procedure Calls
--------------------------

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---------

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  Original location:
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---------------

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-------

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

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The audioop module uses the code base in g771.c file of the SoX project.
https://sourceforge.net/projects/sox/files/sox/12.17.7/sox-12.17.7.tar.gz

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https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to

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

All Python releases are Open Source (see https://opensource.org for
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releases have also been GPL-compatible; the table below summarizes
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/
certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $


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--------------------------------------------------------------------------------
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typing-extensions

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

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

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

All Python releases are Open Source (see https://opensource.org for
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releases have also been GPL-compatible; the table below summarizes
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

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

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

All Python releases are Open Source (see https://opensource.org for
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releases have also been GPL-compatible; the table below summarizes
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    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)

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

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ipmitool-1.8.18/contrib/exchange-bmc-os-info.init.redhat: charles_rose@dell.com,
jordan_hargrave@dell.com
ipmitool-1.8.18/contrib/log_bmc.sh: charles_rose@dell.com, jordan_hargrave@dell.com
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```
# Authors: Charles Rose
# Jordan Hargrave
#
# https://fedoraproject.org/wiki/Features/AgentFreeManagement
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%%% Duncan Laurie
ipmitool-1.8.18/README: Duncan Laurie
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Duncan Laurie
ipmitool-devel@lists.sourceforge.net
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ipmitool-1.8.18/lib/hpm2.c: Pigeon Point Systems
ipmitool-1.8.18/lib/ipmi_vita.c: Pigeon Point Systems
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*
************************************************************************
*
* A note to trio contributors:
*
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* uses fputc, and the asprintf functions and the
modifier, which
* by design are required to allocate form the heap.
*
************************************************************************/
trionan.c:
/************************************************************************
*
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*
************************************************************************
*
* Functions to handle special quantities in floating-point numbers
* (that is, NaNs and infinity). They provide the capability to detect
* and fabricate special quantities.
*
* Although written to be as portable as possible, it can never be
* guaranteed to work on all platforms, as not all hardware supports
* special quantities.
*
* The approach used here (approximately) is to:
*
* 1. Use C99 functionality when available.
* 2. Use IEEE 754 bit-patterns if possible.
* 3. Use platform-specific techniques.
*
***
triostr.c:
```

```
/**********************************************************************
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----------
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                 888        8   888   .d88'    Y888..8P
                 888        8   888ooo88P'      `8888'
                 888        8   888             .8PY888.
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## Source Code

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* https://github.com/eclipse-ee4j/jsonp

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This software contains code derived from netty-native
developed by the Netty project
(https://netty.io, https://github.com/netty/netty-tcnative/)
and from finagle-native developed at Twitter
(https://github.com/twitter/finagle).

This software contains code derived from jgroups-kubernetes
developed by the JGroups project (http://www.jgroups.org/).


Java compilation software for JSP pages is provided by the Eclipse
JDT Core Batch Compiler component, which is open source software.
The original software and related information is available at
https://www.eclipse.org/jdt/core/.

org.apache.tomcat.util.json.JSONParser.jj is a public domain javacc grammar
for JSON written by Robert Fischer.
https://github.com/RobertFischer/json-parser

For portions of the Tomcat JNI OpenSSL API and the OpenSSL JSSE integration
The org.apache.tomcat.jni and the org.apache.tomcat.net.openssl packages
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For portions of the Tomcat cloud support
The org.apache.catalina.tribes.membership.cloud package contains derivative
work originating from the jgroups project.
https://github.com/jgroups-extras/jgroups-kubernetes
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```

```
--------------------------------------------------------------------------------
tomcat embedded Fourth party dependency:
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This content is produced and maintained by the **Jakarta RESTful Web Services**
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* Project home: https://projects.eclipse.org/projects/ee4j.jaxrs

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## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaxrs-api

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7

Licensing for Third-Party Software in Oracle Linux

This chapter includes information about the licensing for Oracle Linux components used by Oracle Private Cloud Appliance, including the associated third-party licensing and restrictions that apply as a result.

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Oracle Linux 8 Images

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Oracle Linux 9 Images

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8

Licensing for Third-Party Software in Oracle Solaris

This chapter includes information about the licensing for Oracle Solaris components used by Oracle Private Cloud Appliance, including the associated third-party licensing and restrictions that apply as a result.

Oracle Solaris 11.4 Licensing Information

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- Oracle Java

  Third-party notices and licenses for Oracle Java are available at:

  (Java SE Downloads) https://www.oracle.com/java/technologies/downloads/)
- Oracle Solaris

  For information about third-party notices and licenses for Oracle Solaris 11.4, see Third-Party Notices and/or Licenses for Oracle Solaris 11.4.

Third-Party Notices and/or Licenses for Oracle Solaris 11.4

Oracle Solaris 11.4 OS packages are listed in the following section. The licenses are listed alphabetically A-Z, then a-z.

Open Source or Other Separately Licensed Software Included With Oracle Solaris 11.4

This section lists the software packages used for Oracle Solaris 11.4.

- American English Dictionary
- App-ClusterSSH
- Authen-PAM
- Babel
- Backbone.js
- Brazilian Portuguese Dictionary

- CACKey
- CDE
- CGI
- CLDR
- Cheetah
- CherryPy
- ConsoleKit
- Cracklib
- Csh
- Cython
- DBD-SQLite
- DBD-mysql
- DBI
- DTraceToolkit
- Django
- FormEncode
- French Dictionary
- GConf
- GMP
- GRUB2
- German Dictionary
- HAL (Hardware Abstraction Layer)
- HKSCS
- ICU
- ISO/IEC
- ImageMagick
- Imaging
- Italian Dictionary
- Jinja2
- Kerberos
- LZMA SDK
- Locale definition info from IEEE Std 1003.2-1992 v. Year 1992
- M2Crypto
- MPFR
- Mako
- Markdown
- MarkupSafe
- MiniSAT

- MySQL-python
- NDMP SDK
- Net-SSLeay
- Netscape Communications
- Open Fabrics kernel components
- PAPI
- PTP
- Paste
- PasteDeploy
- PowerTOP
- PrettyTable
- PyYAML
- Pygments
- Python
- Python
- Python
- RSA
- Reliable Datagram Sockets (RDSv3)
- RequireJS
- RequireJS i18n plugin
- RequireJS text plugin
- Routes
- Ruby
- Ruby
- RubyGems
- SDL
- SQLAlchemy
- SQLite
- Solarflare
- Spanish Dictionary
- Tempita
- The Open Group Technical Standard Portable Layout Services: Context-dependent and Directional Text - ISBN 1-85912-142-X
- Tk
- Twisted
- TwistedWeb2
- Underscore.js
- Unicode

- V4L2 API definition header files
- WebOb
- WebTest
- X11-Protocol
- XML-LibXML
- XML-NamespaceSupport
- XML-Parser
- XML-SAX
- XML-SAX-Base
- XML-Simple
- Xen PV Drivers
- a2ps
- aac
- aalib
- accerciser
- accessx
- accountsservice
- acpica
- acpidump
- adwaita-icon-theme
- agpgart
- aioeventlet
- amqp
- anonymous-pro
- ant
- antlr
- anyjson
- apache2
- appdirs
- apr
- apr
- apr-util
- apr-util
- arabeyes
- arn
- arp
- arphic-ukai
- arphic-uming

- asciidoc
- asn1crypto
- aspell
- astroid
- at-spi2-atk
- at-spi2-core
- atk
- atkmm
- atu
- augeas
- autoconf
- autoconf
- automake
- automake
- automake
- avahi
- background-logo-extension
- backup
- baekmuk
- baobab
- bash
- beautifulsoup4
- bge
- bib
- bind
- binutils
- bison
- bitmap
- bnu
- boto
- bpf
- bpg-georgian
- brltty
- bzip2
- cachetools
- cairo
- cairomm
- cantarell-fonts

- caribou
- ccid
- cdrtools
- cffi
- check
- checkeq
- chrome-gnome-shell
- cliff
- cloog
- cloudbase-init
- clutter
- clutter-gst
- clutter-gst
- clutter-gtk
- cmake
- cmd2
- cogl
- colord
- colord-gtk
- compress
- conflict
- constype
- contextlib2
- convmv
- coolkey
- coreutils
- cov-core
- coverage
- cppunit
- cron
- croscorefonts
- cryptography
- cssutils
- cups
- curl
- cvs
- cyrus-sasl
- d2to1

- d3
- daq
- dbus
- dbus-glib
- dbus-python
- dconf
- dconf-editor
- debtcollector
- decorator
- dejagnu
- dejavu-fonts-ttf
- desktop-file-utils
- devhelp
- diffstat
- diffutils
- django-appconf
- dnsmasq
- dnspython
- docbook
- docbook-dsssl
- docbook-xsl
- dogpile.cache
- dogpile.core
- dotconf
- doxygen
- drm
- dulwich
- dwarf
- eeprom
- emacs
- enchant
- enscript
- enum34
- eog
- eog-plugins
- erlang
- espeak
- eventlet

- evince
- evolution-data-server
- exempi
- expect
- extras
- facter
- fasteners
- fetchmail
- fftw
- file-roller
- filechunkio
- findutils
- firefox
- fixtures
- flac
- flex
- fltk
- folks
- font-adobe-100dpi
- font-bh-ttf
- font-daewoo-misc
- font-isas-misc
- font-jis-misc
- font-misc-cyrillic
- font-misc-ethiopic
- font-misc-meltho
- fontconfig
- foomatic-db
- foomatic-db-engine
- foomatic-filters
- foomatic-filters-ppds
- fping
- freefont
- freeglut
- freetype
- fstobdf
- ftp
- ftp-proxy

- fts
- funcsigs
- futures
- futurist
- gSOAP
- gamin
- gawk
- gcc
- gcc
- gcr
- gd
- gdb
- gdbm
- gdk-pixbuf
- gdm
- gedit
- gedit-plugins
- genders
- gentium
- geoclue
- geocode-glib
- getopt
- getopt_long
- gettext
- gettext
- ghostscript
- ghostscript-fonts-std
- git
- gjs
- glade
- gladman
- glib
- glib-networking
- glibmm
- glu
- gmime
- gnome-autoar
- gnome-backgrounds

- gnome-calculator
- gnome-calendar
- gnome-clocks
- gnome-common
- gnome-control-center
- gnome-desktop
- gnome-devel-docs
- gnome-doc-utils
- gnome-font-viewer
- gnome-getting-started-docs
- gnome-initial-setup
- gnome-keyring
- gnome-menus
- gnome-online-accounts
- gnome-screenshot
- gnome-session
- gnome-settings-daemon
- gnome-shell
- gnome-shell-extensions
- gnome-system-monitor
- gnome-terminal
- gnome-themes-standard
- gnome-tweak-tool
- gnome-user-docs
- gnu-efi
- gnu-gs-fonts-other
- gnupg
- gnuplot
- gnutls
- gobject-introspection
- gocr
- golang
- gom
- google-droid-fonts
- gperf
- gpgme
- graphviz
- greenlet

- grep
- grilo
- grilo-plugins
- groff
- gsettings-desktop-schemas
- gsl
- gsound
- gssdp
- gsskex
- gsskrbkernel
- gst-plugins-base
- gst-plugins-good
- gst-python
- gstreamer
- gtk-doc
- gtk-engines
- gtk-vnc
- gtk2
- gtk3
- gtkmm
- gtkmm
- gtksourceview
- gtkspell
- gucharmap
- gupnp
- gupnp-igd
- gutenprint
- gvfs
- gzip
- hal-cups-utils
- harfbuzz
- help2man
- hexedit
- hg-git
- hicolor-icon-theme
- hiera
- hplip
- httping

- httplib2
- hwa1480_fw
- i915
- ibus
- ibutils
- icu
- icu4c
- idna
- idnkit
- ifconfig
- ifparse
- iftop
- ilmbase
- imake
- indent
- indic-fonts-core
- infiniband-diags
- iniparse
- intel
- intel-gpu-tools
- intltool
- ipaddr
- ipaddress
- ipafont
- iperf
- ipfilter
- ipmi
- ipmitool
- ipython
- irssi
- isc-dhcp
- isl
- iso-codes
- iso8601
- isort
- itstool
- iwh
- iwk

- iwp
- jQuery
- jansson
- jjv
- jpeg
- jq
- jsl
- json-c
- json-glib
- jsonpatch
- jsonpath-rw
- jsonpointer
- jsonrpclib
- jsonschema
- junit
- kacst
- kcmd
- keymaster.js
- keystoneauth1
- keystonemiddleware
- kombu
- ksh93
- lastcomm
- lazy-object-proxy
- lcms
- lcms2
- ldappool
- ldtp
- less
- lesscpy
- lftp
- lgi
- libFS
- libICE
- libSM
- libX11
- libXScrnSaver
- libXau

- libXaw
- libXcomposite
- libXcursor
- libXdamage
- libXdmcp
- libXevie
- libXext
- libXfixes
- libXfont
- libXfont2
- libXft
- libXi
- libXinerama
- libXmu
- libXp
- libXpm
- libXpresent
- libXrandr
- libXrender
- libXres
- libXt
- libXtst
- libXv
- libXvMC
- libXxf86misc
- libXxf86vm
- libarchive
- libassuan
- libbsdmalloc
- libcanberra
- libchamplain
- libconfuse
- libcroco
- libdaemon
- libdmx
- libdnet
- libdrm
- libedit

- libee
- libepoxy
- liberation-fonts-ttf
- libestr
- libevent
- libexif
- libexpat
- libffi
- libfontenc
- libfuse
- libgcrypt
- libgdata
- libgee
- libgpg-error
- libgsf
- libgtop
- libgweather
- libgxps
- libibmad
- libibumad
- libibverbs
- libical
- libidn
- libidn2
- libinetutil
- libipt
- libkmf
- libksba
- liblogging
- liblouis
- libmediaart
- libmemcached
- libmicrohttpd
- libmlx4
- libmng
- libmp
- libmusicbrainz
- libneon

- libnet
- libnotify
- liboauth
- libogg
- libomp
- libotr
- libpcap
- libpciaccess
- libpeas
- libpki
- libpng
- libpng
- libpng
- libproxy
- libpthread-stubs
- librabbitmq
- librdmacm
- libresolv2
- librstp
- librsvg
- librsync
- libsdp
- libsecret
- libsigsegv
- libsndfile
- libsoup
- libspectre
- libssh2
- libtasn1
- libtecla
- libtheora
- libtiff
- libtool
- libtorrent
- libusb
- libusb-wrapper
- libuuid
- libvdpau

- libvisual
- libvisual-plugins
- libvorbis
- libvpx
- libwebp
- libwnck3
- libxcb
- libxkbcommon
- libxkbfile
- libxklavier
- libxml2
- libxshmfence
- libxslt
- libzapojit
- lighttpd
- linecache2
- links
- listres
- llvm
- lndir
- locale
- lockfile
- logilab-common
- logutils
- lohit
- look
- lua
- luit
- lxml
- lynx
- lz4
- m4
- mailman
- make
- makedepend
- marionette-collective
- mccabe
- mcollective-facter-facts

- mcollective-package-agent
- mcollective-puppet-agent
- mcollective-service-agent
- mdb
- mdns
- meld
- memcached
- memcached-java
- mercurial
- mesa
- mesa-demos
- mgopen
- mkfontscale
- mlocate
- mm-common
- mock
- mod_dtrace
- mod_fcgid
- mod_gss
- mod_jk
- mod_perl
- mod_wsgi
- modsecurity
- monotonic
- mousetweaks
- mozjs
- mpathd
- mpc
- mpc
- mrtg
- msgpack-python
- mt
- mtr
- mutt
- mutter
- mysql
- nano
- nautilus

- nautilus-sendto
- ncftp
- ncurses
- net-snmp
- net80211
- netaddr
- netcat
- netifaces
- netlink
- netlink
- nettle
- networkx
- nghttp2
- nicstat
- nmap
- noVNC
- nose
- nose-cover3
- nspr
- nss
- ntfsprogs
- ntp
- numpy
- oauthlib
- ocaml
- oclock
- omp_collector_api.h
- onig
- openca-ocspd
- openexr
- openjade
- openjpeg
- openldap
- openscap
- opensm
- opensp
- openssh
- openssl

- openssl
- openssl-fips-140
- openstacksdk
- openusb
- orc
- orca
- os-client-config
- oslo.concurrency
- oslo.config
- oslo.context
- oslo.i18n
- oslo.log
- oslo.messaging
- oslo.middleware
- oslo.serialization
- oslo.service
- oslo.utils
- osprofiler
- ovs
- ovs
- p11-kit
- p7zip
- pam_pkcs11
- pango
- pangomm
- paps
- parallel
- paramiko
- parted
- patch
- patchutils
- pathlib
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- poppler
- poppler-data
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- portfp
- portgen
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- privoxy
- procmail
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- pulseaudio
- puppet
- puppet-rabbitmq
- puppet-staging
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- puppetlabs-inifile
- puppetlabs-mysql
- puppetlabs-ntp
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- puppetlabs-stdlib
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- py2cairo
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- pylint
- pymemcache
- pyparsing
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- pysnmp
- pytest
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- pytest-codecheckers
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- python-dateutil
- python-editor
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- python-memcached
- python-mimeparse
- python-neutronclient
- python-quantumclient
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- rrdtool
- rsh
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- rtorrent
- rts
- ruby
- ruby
- ruby-augeas
- rum
- samba
- saz-memcached
- sbsigntool
- scons
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- seahorse
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- sessreg

- setuptools
- setuptools-git
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- sg3_utils
- sgml-common
- shared-mime-info
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- simplegeneric
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- six
- smartmontools
- smbfs
- smp_utils
- smproxy
- snappy
- snia-hbaapi
- snia-ima
- snia-mpapi
- snort
- source-code-pro
- source-sans-pro
- spawn-fcgi
- speech-dispatcher
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- sqlite
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- squid
- sscanf
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- stomp
- stunnel
- subversion
- sudo

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- tcl
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- tcpdump
- tcsh
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- telepathy-logger
- telnet
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- termio
- testresources
- testscenarios
- testtools
- texi2html
- texinfo
- text-utilities
- thai-scalable
- thunderbird
- tidy
- tigervnc
- timers
- tip
- tk
- tmux
- tomcat
- top
- totem
- totem-pl-parser
- tox
- traceback2
- traceroute

- tracker
- transset
- tree
- trollius
- trousers
- ttf-bitstream-vera
- twm
- uath
- udfs
- ufs
- uhttpmock
- ul
- unfonts-ko-core
- unfonts-ko-extra
- unicode
- unicodecsv
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- units
- unixODBC
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- urtw
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- wdiff
- webalizer
- webkitgtk
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- which
- wireshark
- wpa
- wqy-zenhei
- wrapt
- wxWidgets
- x11perf
- xattr
- xauth
- xbitmaps
- xcb-util
- xcb-util-cursor
- xcb-util-errors
- xcb-util-image
- xcb-util-keysyms
- xcb-util-renderutil
- xcb-util-wm
- xclipboard
- xclock
- xcompmgr
- xconsole
- xcursor-themes
- xcursorgen
- xdebug
- xdg-utils
- xdm
- xdpyinfo
- xev
- xf86-input-keyboard
- xf86-input-mouse
- xf86-input-synaptics

- xf86-input-vmmouse
- xf86-input-void
- xf86-video-ast
- xf86-video-ati
- xf86-video-cirrus
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- xf86-video-intel
- xf86-video-mach64
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- xkbcomp
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- xload
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- xmlto
- xorg-docs
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- xscreensaver
- xstdcmap
- xstr
- xterm
- xterm
- xtrans

- xwd
- xz
- yasm
- yelp
- yelp-tools
- yelp-xsl
- zenity
- zip
- zlib
- zope.interface
- zsh
- zyd

Displaying Licenses for Oracle Solaris Packages

Use the --license option of the `pkg info` command to display the license texts for the matching packages.

The following example displays license text for the gzip package on an installed Oracle Solaris system:

```
$ pkg info --license compress/gzip
```

See the Oracle Solaris documentation for more information about using the `pkg info` command.

9

Licensing for Third-Party Software in Oracle JavaScript Extension Toolkit (JET)

This chapter includes information about the licensing for Oracle JavaScript Extension Toolkit (JET) components used by Oracle Private Cloud Appliance, including the associated third-party licensing and restrictions that apply as a result.

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js/libs/require/require.js                                                 MIT
js/libs/require/text.js                                                  MIT
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scss/oj/v10.0.0/3rdparty/normalize/normalize.scss                MIT
js/libs/touchr/touchr.js                                                   MIT
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Chai - v4.2.0
https://github.com/chaijs/chai
```

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https://github.com/soney/jsep
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RequireJS i18n 2.0.2
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ES6-Promise
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JS Signals <http://millermedeiros.github.com/js-signals/>
Author: Miller Medeiros
Version: 1.0.0 - Build: 268 (2012/11/29 05:48 PM)

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RequireJS 2.3.6
http://github.com/jrburke/requirejs
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TinyXML2
========
aws-cpp-sdk-core/include/aws/core/external/tinyxml2/tinyxml2.h
----------------------------------------------------------------
/*
Original code by Lee Thomason (www.grinninglizard.com)

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========
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noted in the CHANGELOG.md file:
`cJSON` is now the underlying JSON parser, replacing
JsonCpp.aws-cpp-sdk-core/source/external/json-cpp/jsoncpp.cpp
aws-cpp-sdk-core/include/aws/core/external/cjson/cJSON.h
-----------------------------===------------------------
/*
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*/
--------------------------------------------------------------

OpenSSL build files
===================
android-build/cmakefiles/openssl-cmake/CMakeLists.txt
-----------------------------------------------------
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====================================
cmake/platform/android.toolchain.cmake
--------------------------------------
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cURL (libcurl)

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   dtoa.c
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Facebook Fast Checksum Patch

Facebook Fast Checksum Patch

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   lib/gssapi/mechglue/g_canon_name.c
   lib/gssapi/mechglue/g_compare_name.c
   lib/gssapi/mechglue/g_context_time.c
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   lib/gssapi/mechglue/g_rel_buffer.c
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   lib/gssapi/mechglue/g_verify.c
   lib/gssapi/mechglue/gssd_pname_to_uid.c
   lib/gssapi/mechglue/mglueP.h
   lib/gssapi/mechglue/oid_ops.c
   lib/gssapi/spnego/gssapiP_spnego.h
   lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
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   include/iprop_hdr.h
   kadmin/server/ipropd_svc.c
   lib/kdb/iprop.x
   lib/kdb/kdb_convert.c
   lib/kdb/kdb_log.c
   lib/kdb/kdb_log.h
   lib/krb5/error_tables/kdb5_err.et
   slave/kpropd_rpc.c
   slave/kproplog.c

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# Variant secondaries:    0159..015E (6)
# Digit secondaries:      015F..0192 (52)
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[This is the first released version of the Lesser GPL.  It also counts
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 the version number 2.1.]

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can use it too, but we suggest you first think carefully about whether
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it if you want it; that you can change the software and use pieces of
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these things.

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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
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  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
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  Finally, software patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
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  Most GNU software, including some libraries, is covered by the
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General Public License therefore permits such linking only if the
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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
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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
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linked with the Library has the freedom and the wherewithal to run
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  The precise terms and conditions for copying, distribution and
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be combined with the library in order to run.

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

  The "Library", below, refers to any such software library or work
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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
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on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

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

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

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

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

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

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

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

In addition, mere aggregation of another work not based on the Library
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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
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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
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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
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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

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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

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    <one line to give the library's name and a brief idea of what it does.>
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necessary.  Here is a sample; alter the names:

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  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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Artistic License (Perl) 1.0

The "Artistic License"

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.

Definitions:

        "Package" refers to the collection of files distributed by the
        Copyright Holder, and derivatives of that collection of files
        created through textual modification.

        "Standard Version" refers to such a Package if it has not been
        modified, or has been modified in accordance with the wishes
        of the Copyright Holder as specified below.
```

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        "Copyright Holder" is whoever is named in the copyright or
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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
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2. You may apply bug fixes, portability fixes and other modifications
derived from the Public Domain or from the Copyright Holder.  A Package
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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
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    a) place your modifications in the Public Domain or otherwise make them
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    an equivalent medium, or placing the modifications on a major archive
    site such as uunet.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
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    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) give non-standard executables non-standard names, and clearly
    document 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.
```

```
5. You may charge a reasonable copying fee for any distribution of this
Package.  You may charge any fee you choose for support of this
Package.  You may not charge a fee for this Package itself.  However,
you may distribute this Package in aggregate with other (possibly
commercial) programs as part of a larger (possibly commercial) software
distribution provided that you do not advertise this Package as a
product of your own.  You may embed this Package's interpreter within
an executable of yours (by linking); this shall be construed as a mere
form of aggregation, provided that the complete Standard Version of the
interpreter is so embedded.

6. The scripts and library files supplied as input to or produced as
output from the programs of this Package do not automatically fall
under the copyright of this Package, but belong to whoever generated
them, and may be sold commercially, and may be aggregated with this
Package.  If such scripts or library files are aggregated with this
Package via the so-called "undump" or "unexec" methods of producing a
binary executable image, then distribution of such an image shall
neither be construed as a distribution of this Package nor shall it
fall under the restrictions of Paragraphs 3 and 4, provided that you do
not represent such an executable image as a Standard Version of this
Package.

7. C subroutines (or comparably compiled subroutines in other
languages) supplied by you and linked into this Package in order to
emulate subroutines and variables of the language defined by this
Package shall not be considered part of this Package, but are the
equivalent of input as in Paragraph 6, provided these subroutines do
not change the language in any way that would cause it to fail the
regression tests for the language.

8. Aggregation of this Package with a commercial distribution is always
permitted provided that the use of this Package is embedded; that is,
when no overt attempt is made to make this Package's interfaces visible
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IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
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                              The End

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11

Licensing for Third-Party Software in Oracle Cloud Native Environment

This chapter includes information about the licensing for Oracle Cloud Native Environment components used by Oracle Private Cloud Appliance, including the associated third-party licensing and restrictions that apply as a result.

Oracle Cloud Native Environment Licensing Information

Licensing Information

This section includes the software licensing information for third-party software products included as part of Oracle Cloud Native Environment.

Licensing Information for Software Packages and Container Images

This section contains the licensing information for the software packages and container images in Oracle Cloud Native Environment.

Container images contain the Oracle Linux operating system, which is covered by the Oracle Linux license.

The Oracle Linux programs contain many components that are developed by Oracle and various third parties. The license for each component is located in this licensing documentation and, or, in the component's source code. In addition, a list of components may be delivered with the Oracle Linux programs and the Additional Oracle Linux programs (as defined in the Oracle Linux License Agreement) or accessed online at https://oss.oracle.com/linux/legal/oracle-list.html. The source code for the Oracle Linux Programs and the Additional Oracle Linux programs can be found and accessed online at https://oss.oracle.com/sources/.

Kubernetes

Table 11-1 Software Package and Container Image Licensing Information for Kubernetes

Component	RPM Packages	Container Images	License Information	Dependencies
coredns		container-registry.oracle.com/olcne/coredns:1.7.0	Apache-2.0	For software package dependency licensing information see Table 11-2.

Table 11-1 (Cont.) Software Package and Container Image Licensing Information for Kubernetes

Component	RPM Packages	Container Images	License Information	Dependencies
etcd	etcd-3.4.13-1.[***platform***].x86_64.rpm	container-registry.oracle.com/olcne/etcd:3.4.13	Apache-2.0	For software package dependency licensing information see Table 11-3.
flannel		container-registry.oracle.com/olcne/flannel:v0.13.0	Apache-2.0	For software package dependency licensing information see Table 11-4.
kubernetes-cni-plugins	kubernetes-cni-plugins-0.9.1-1.[***platform***].x86_64.rpm	No container images.	Apache-2.0	For software package dependency licensing information see Table 11-5.
kubernetes	kubelet-1.20.6-1.[***platform***].x86_64.rpm kubectl-1.20.6-1.[***platform***].x86_64.rpm kubeadm-1.20.6-1.[***platform***].x86_64.rpm	container-registry.oracle.com/olcne/kube-proxy:v1.20.6 container-registry.oracle.com/olcne/kube-apiserver:v1.20.6 container-registry.oracle.com/olcne/kube-scheduler:v1.20.6 container-registry.oracle.com/olcne/kube-controller-manager:v1.20.6 container-registry.oracle.com/olcne/pause:3.4	Apache-2.0	For software package dependency licensing information see Table 11-6.

Table 11-2 Software Package Dependency Licensing Information for coredns 1.7.0

Package Name	Version	License
github.com/Azure/azure-sdk-for-go	v40.6.0	MIT License
github.com/Azure/go-autorest/autorest	v0.10.2	Apache License 2.0
github.com/Azure/go-autorest/autorest/azure/auth	v0.4.2	Apache License 2.0
github.com/DataDog/datadog-go	v3.5.0	MIT License
github.com/Shopify/sarama	v1.21.0	MIT License

Table 11-2 (Cont.) Software Package Dependency Licensing Information for coredns 1.7.0

Package Name	Version	License
github.com/apache/thrift	v0.13.0	Apache License 2.0
github.com/aws/aws-sdk-go	v1.32.1	Apache License 2.0
github.com/caddyserver/caddy	v1.0.5	Apache License 2.0
github.com/cenkalti/backoff/v4	v4.0.2	MIT License
github.com/dnstap/golang-dnstap	v0.2.0	Apache-2.0
github.com/farsightsec/golang-framestream	fa4b164d59b8	Apache-2.0
github.com/golang/protobuf	v1.4.2	BSD 3-Clause "New" or "Revised" License
github.com/gophercloud/gophercloud	v0.9.0	Apache-2.0
github.com/grpc-ecosystem/grpc-opentracing	8e809c8a8645	BSD-3-Clause
github.com/hashicorp/golang-lru	v0.5.4	Mozilla Public License 2.0
github.com/imdario/mergo	v0.3.9	BSD 3-Clause "New" or "Revised" License
github.com/infobloxopen/go-trees	2af4e13f9062	Apache License 2.0
github.com/kr/pretty	v0.2.0	MIT License
github.com/matttproud/golang_protobuf_extensions	v1.0.1	Apache License 2.0
github.com/miekg/dns	v1.1.29	BSD-3-Clause
github.com/opentracing-contrib/go-observer	a52f23424492	Apache License 2.0
github.com/opentracing/opentracing-go	v1.1.0	Apache License 2.0
github.com/openzipkin-contrib/zipkin-go-opentracing	v0.3.5	Apache License 2.0
github.com/philhofer/fwd	v1.0.0	MIT License
github.com/prometheus/client_golang	v1.6.0	Apache License 2.0
github.com/prometheus/client_model	v0.2.0	Apache License 2.0
github.com/prometheus/common	v0.10.0	Apache License 2.0
github.com/prometheus/prometheus	v2.5.0	Apache License 2.0
github.com/tinylib/msgp	v1.1.2	MIT
go.etcd.io/etcd	221f0cc107cb	Apache License 2.0
go.uber.org/zap	v1.14.1	MIT License
golang.org/x/crypto	0ec3e9974c59	BSD-3-Clause
golang.org/x/sys	1957bb5e6d1f	BSD-3-Clause
google.golang.org/api	v0.26.0	BSD 3-Clause "New" or "Revised" License
google.golang.org/grpc	v1.29.1	Apache License 2.0
gopkg.in/DataDog/dd-trace-go.v1	v1.24.1	Apache-2.0
k8s.io/api	v0.18.3	Apache License 2.0
k8s.io/apimachinery	v0.18.3	Apache License 2.0
k8s.io/client-go	v0.18.3	Apache License 2.0
k8s.io/klog	v1.0.0	Apache License 2.0

Table 11-3 Software Package Dependency Licensing Information for etcd 3.4.13

Package Name	Version	License
github.com/bgentry/speakeasy	v0.1.0	MIT
github.com/cockroachdb/datadriven	80d97fb3cbaa	Apache License 2.0
github.com/coreos/go-semver	v0.2.0	Apache License 2.0
github.com/coreos/go-systemd	39ca1b05acc7	Apache License 2.0
github.com/coreos/pkg	3ac0863d7acf	Apache License 2.0
github.com/creack/pty	v1.1.7	MIT License
github.com/dgrijalva/jwt-go	v3.2.0	MIT License
github.com/dustin/go-humanize	bb3d318650d4	MIT
github.com/fatih/color	v1.7.0	MIT License
github.com/gogo/protobuf	v1.2.1	BSD-3-Clause
github.com/golang/groupcache	02826c3e7903	Apache License 2.0
github.com/golang/protobuf	v1.3.2	BSD 3-Clause "New" or "Revised" License
github.com/google/btree	v1.0.0	Apache License 2.0
github.com/google/uuid	v1.0.0	BSD 3-Clause "New" or "Revised" License
github.com/gorilla/websocket	4201258b820c	BSD 2-Clause "Simplified" License
github.com/grpc-ecosystem/go-grpc-middleware	f849b5445de4	Apache License 2.0
github.com/grpc-ecosystem/go-grpc-prometheus	v1.2.0	Apache License 2.0
github.com/grpc-ecosystem/grpc-gateway	v1.9.5	BSD 3-Clause "New" or "Revised" License
github.com/inconshreveable/mousetrap	v1.0.0	Apache-2.0
github.com/jonboulle/clockwork	v0.1.0	Apache License 2.0
github.com/json-iterator/go	v1.1.7	MIT License
github.com/mattn/go-colorable	v0.0.9	MIT License
github.com/mattn/go-isatty	v0.0.4	MIT License
github.com/mattn/go-runewidth	v0.0.2	MIT License
github.com/modern-go/reflect2	v1.0.1	Apache License 2.0
github.com/olekukonko/tablewriter	a0225b3f23b5	MIT License
github.com/prometheus/client_golang	v1.0.0	Apache License 2.0
github.com/prometheus/client_model	14fe0d1b01d4	Apache License 2.0
github.com/sirupsen/logrus	v1.4.2	MIT License
github.com/soheilhy/cmux	v0.1.4	Apache License 2.0
github.com/spf13/cobra	v0.0.3	Apache License 2.0
github.com/spf13/pflag	v1.0.1	BSD 3-Clause "New" or "Revised" License
github.com/tmc/grpc-websocket-proxy	89b8d40f7ca8	MIT License
github.com/urfave/cli	v1.20.0	MIT License
github.com/xiang90/probing	43a291ad63a2	MIT License
go.etcd.io/bbolt	v1.3.3	MIT License

Table 11-3 (Cont.) Software Package Dependency Licensing Information for etcd 3.4.13

Package Name	Version	License
go.uber.org/atomic	v1.3.2	MIT License
go.uber.org/multierr	v1.1.0	MIT License
go.uber.org/zap	v1.10.0	MIT License
golang.org/x/crypto	c2843e01d9a2	BSD-3-Clause
golang.org/x/lint	d0100b6bd8b3	BSD 3-Clause "New" or "Revised" License
golang.org/x/net	74dc4d7220e7	BSD-3-Clause
golang.org/x/sys	c7b8b68b1456	BSD-3-Clause
golang.org/x/text	v0.3.3	BSD-3-Clause
golang.org/x/time	fbb02b2291d2	BSD-3-Clause
golang.org/x/tools	2c0ae7006135	BSD-3-Clause
google.golang.org/grpc	v1.26.0	Apache License 2.0
gopkg.in/cheggaaa/pb.v1	v1.0.25	BSD 3-Clause "New" or "Revised" License
gopkg.in/yaml.v2	v2.2.2	Apache-2.0
honnef.co/go/tools	ea95bdfd59fc	MIT
sigs.k8s.io/yaml	v1.1.0	MIT & BSD-3-Clause

Table 11-4 Software Package Dependency Licensing Information for flannel 0.13.0

Package Name	Version	License
cloud.google.com/go	7c205da84d8d	Apache License 2.0
github.com/Microsoft/hcsshim	v0.8.6	MIT License
github.com/PuerkitoBio/purell	v1.0.0	BSD 3-Clause "New" or "Revised" License
github.com/PuerkitoBio/urlesc	5bd2802263f2	BSD 3-Clause "New" or "Revised" License
github.com/aws/aws-sdk-go	v1.12.54	Apache License 2.0
github.com/bronze1man/goStrongswanVici	4d72634a2f11	MIT License
github.com/containernetworking/plugins	v0.8.6	Apache License 2.0
github.com/coreos/etcd	v3.1.11	Apache License 2.0
github.com/coreos/go-iptables	v0.4.5	Apache License 2.0
github.com/coreos/go-systemd	39ca1b05acc7	Apache License 2.0
github.com/coreos/pkg	3ac0863d7acf	Apache License 2.0
github.com/denverdino/aliyungo	f6cab0c35083	Apache License 2.0
github.com/docker/distribution	v2.4.0	Apache License 2.0
github.com/emicklei/go-restful	09691a3b6378	MIT License
github.com/ghodss/yaml	73d445a93680	MIT & BSD-3-Clause
github.com/go-ini/ini	v1.28.1	Apache License 2.0
github.com/go-openapi/jsonpointer	46af16f9f7b1	Apache License 2.0
github.com/go-openapi/jsonreference	13c6e3589ad9	Apache License 2.0

Table 11-4 (Cont.) Software Package Dependency Licensing Information for flannel 0.13.0

Package Name	Version	License
github.com/go-openapi/spec	6aced65f8501	Apache-2.0
github.com/go-openapi/swag	1d0bd113de87	Apache License 2.0
github.com/gogo/protobuf	909568be09de	BSD-3-Clause
github.com/golang/glog	44145f04b68c	Apache License 2.0
github.com/google/gofuzz	44d81051d367	Apache License 2.0
github.com/howeyc/gopass	3ca23474a7c7	ISC License
github.com/imdario/mergo	6633656539c1	BSD 3-Clause "New" or "Revised" License
github.com/jmespath/go-jmespath	bd40a432e4c7	Apache-2.0
github.com/joho/godotenv	726cc8b906e3	MIT License
github.com/jonboulle/clockwork	v0.1.0	Apache License 2.0
github.com/juju/errors	c7d06af17c68	LGPL-3.0-only
github.com/juju/ratelimit	77ed1c8a0121	LGPL-3.0-only
github.com/juju/testing	4c23f9c453cd	LGPL-3.0-only
github.com/mailru/easyjson	d5b7844b561a	MIT License
github.com/niemeyer/pretty	a10e7caefd8e	MIT License
github.com/smartystreets/goconvey	v1.6.4	MIT
github.com/spf13/pflag	08b1a584251b	BSD 3-Clause "New" or "Revised" License
github.com/stevvooe/resumable	22b14a53ba50	BSD 3-Clause "New" or "Revised" License
github.com/stretchr/testify	v1.6.1	MIT License
github.com/ugorji/go	ded73eae5db7	MIT License
github.com/vishvananda/netlink	023a6dafdcdf	Apache License 2.0
github.com/vishvananda/netns	13995c7128cc	Apache License 2.0
golang.org/x/net	d8887717615a	BSD-3-Clause
golang.org/x/oauth2	5432cc9688e6	BSD 3-Clause "New" or "Revised" License
google.golang.org/api	e6586c9293b9	BSD 3-Clause "New" or "Revised" License
google.golang.org/appengine	4f7eeb5305a4	Apache License 2.0
gopkg.in/check.v1	8fa46927fb4f	BSD-2-Clause
gopkg.in/inf.v0	v0.9.0	BSD-3-Clause
gopkg.in/yaml.v1	9f9df34309c0	Apache-2.0
k8s.io/apimachinery	9603df80256c	Apache License 2.0
k8s.io/client-go	a95edf803628	Apache License 2.0

Table 11-5 Software Package Dependency Licensing Information for kubernetes-cni-plugins 0.9.1

Package Name	Version	License
github.com/Microsoft/go-winio	v0.4.11	MIT License

Table 11-5 (Cont.) Software Package Dependency Licensing Information for kubernetes-cni-plugins 0.9.1

Package Name	Version	License
github.com/Microsoft/hcsshim	v0.8.6	MIT License
github.com/alexflint/go-filemutex	72bdc8eae2ae	MIT License
github.com/buger/jsonparser	f4dd9f5a6b44	MIT License
github.com/containernetworking/cni	v0.8.1	Apache License 2.0
github.com/coreos/go-iptables	v0.5.0	Apache License 2.0
github.com/coreos/go-systemd	39ca1b05acc7	Apache License 2.0
github.com/d2g/dhcp4	a1d1b6c41b1c	BSD 3-Clause "New" or "Revised" License
github.com/d2g/dhcp4client	v1.0.0	Mozilla Public License 2.0
github.com/d2g/dhcp4server	7d4a0a7f59a5	Mozilla Public License 2.0
github.com/d2g/hardwareaddr	e7d9fbe030e4	Mozilla Public License 2.0
github.com/godbus/dbus	885f9cc04c9c	BSD 2-Clause "Simplified" License
github.com/j-keck/arping	2cf9dc699c56	MIT License
github.com/mattn/go-shellwords	v1.0.3	MIT License
github.com/onsi/ginkgo	v1.12.1	MIT License
github.com/onsi/gomega	v1.10.3	MIT License
github.com/safchain/ethtool	42ed695e3de8	Apache License 2.0
github.com/sirupsen/logrus	v1.0.6	MIT License
github.com/stretchr/testify	v1.3.0	MIT License
github.com/vishvananda/netlink	d40f9887b852	Apache License 2.0
golang.org/x/sys	d9b008d0a637	BSD-3-Clause
gopkg.in/airbrake/gobrake.v2	v2.0.9	MIT License
gopkg.in/gemnasium/logrus-airbrake-hook.v2	v2.1.2	MIT License

Table 11-6 Software Package Dependency Licensing Information for kubernetes 1.20.6

Package Name	Version	License
bitbucket.org/bertimus9/systemstat	0eeff89b0690	MIT License
github.com/Azure/azure-sdk-for-go	v43.0.0	MIT License
github.com/Azure/go-autorest/autorest	v0.11.1	Apache License 2.0
github.com/Azure/go-autorest/autorest/adal	v0.9.5	Apache License 2.0
github.com/Azure/go-autorest/autorest/to	v0.2.0	Apache License 2.0
github.com/GoogleCloudPlatform/k8s-cloud-provider	7901bc822317	Apache License 2.0
github.com/JeffAshton/win_pdh	76bb4ee9f0ab	BSD-3-Clause
github.com/Microsoft/go-winio	v0.4.15	MIT License
github.com/Microsoft/hcsshim	5eafd1556990	MIT License
github.com/PuerkitoBio/purell	v1.1.1	BSD 3-Clause "New" or "Revised" License

Table 11-6 (Cont.) Software Package Dependency Licensing Information for kubernetes 1.20.6

Package Name	Version	License
github.com/armon/circbuf	bbbad097214e	MIT License
github.com/auth0/go-jwt-middleware	5493cabe49f7	MIT License
github.com/aws/aws-sdk-go	v1.35.24	Apache License 2.0
github.com/blang/semver	v3.5.1	MIT License
github.com/boltdb/bolt	v1.3.1	MIT License
github.com/caddyserver/caddy	v1.0.3	Apache License 2.0
github.com/clusterhq/flocker-go	2b8b7259d313	Apache License 2.0
github.com/codegangsta/negroni	v1.0.0	MIT License
github.com/container-storage-interface/spec	v1.2.0	Apache License 2.0
github.com/containernetworking/cni	v0.8.0	Apache License 2.0
github.com/coredns/corefile-migration	v1.0.10	Apache License 2.0
github.com/coreos/go-oidc	v2.1.0	Apache License 2.0
github.com/coreos/go-systemd	95778dfbb74e	Apache License 2.0
github.com/coreos/pkg	399ea9e2e55f	Apache License 2.0
github.com/cpuguy83/go-md2man/v2	v2.0.0	MIT License
github.com/davecgh/go-spew	v1.1.1	ISC License
github.com/docker/distribution	v2.7.1	Apache License 2.0
github.com/docker/docker	bd33bbf0497b	Apache License 2.0
github.com/docker/go-connections	v0.4.0	Apache License 2.0
github.com/docker/go-units	v0.4.0	Apache License 2.0
github.com/elazarl/goproxy	947c36da3153	BSD 3-Clause "New" or "Revised" License
github.com/emicklei/go-restful	v2.9.5	MIT License
github.com/evanphx/json-patch	v4.9.0	BSD 3-Clause "New" or "Revised" License
github.com/fsnotify/fsnotify	v1.4.9	BSD 3-Clause "New" or "Revised" License
github.com/go-bindata/go-bindata	v3.1.1	CC0-1.0
github.com/go-openapi/loads	v0.19.4	Apache License 2.0
github.com/go-openapi/spec	v0.19.3	Apache-2.0
github.com/go-openapi/strfmt	v0.19.3	Apache License 2.0
github.com/go-openapi/validate	v0.19.5	Apache License 2.0
github.com/go-ozzo/ozzo-validation	v3.5.0	MIT License
github.com/godbus/dbus/v5	v5.0.3	BSD 2-Clause "Simplified" License
github.com/gogo/protobuf	v1.3.2	BSD-3-Clause
github.com/golang/groupcache	8c9f03a8e57e	Apache License 2.0
github.com/golang/mock	v1.4.1	Apache License 2.0
github.com/google/cadvisor	v0.38.8	Apache-2.0
github.com/google/go-cmp	v0.5.2	BSD 3-Clause "New" or "Revised" License
github.com/google/gofuzz	v1.1.0	Apache License 2.0

Table 11-6 (Cont.) Software Package Dependency Licensing Information for kubernetes 1.20.6

Package Name	Version	License
github.com/google/uuid	v1.1.2	BSD 3-Clause "New" or "Revised" License
github.com/googleapis/gnostic	v0.4.1	Apache License 2.0
github.com/gorilla/context	v1.1.1	BSD 3-Clause "New" or "Revised" License
github.com/hashicorp/golang-lru	v0.5.1	Mozilla Public License 2.0
github.com/heketi/heketi	c2e2a4ab7ab9	LGPL-3.0-or-later & Apache-2.0 & GPL-2.0-only
github.com/heketi/tests	f3775cbcefd6	Apache License 2.0
github.com/ishidawataru/sctp	7c296d48a2b5	Apache-2.0
github.com/json-iterator/go	v1.1.10	MIT License
github.com/libopenstorage/openstorage	v1.0.0	Apache License 2.0
github.com/lithammer/dedent	v1.1.0	MIT License
github.com/lpabon/godbc	v0.1.1	Apache License 2.0
github.com/miekg/dns	v1.1.4	BSD-3-Clause
github.com/moby/ipvs	v1.0.1	Apache License 2.0
github.com/mohae/deepcopy	491d3605edfb	MIT License
github.com/mrunalp/fileutils	abd8a0e76976	Apache License 2.0
github.com/munnerz/goautoneg	a7dc8b61c822	BSD 3-Clause "New" or "Revised" License
github.com/mvdan/xurls	v1.1.0	BSD 3-Clause "New" or "Revised" License
github.com/onsi/ginkgo	v1.11.0	MIT License
github.com/onsi/gomega	v1.7.0	MIT License
github.com/opencontainers/go-digest	v1.0.0	Apache-2.0
github.com/opencontainers/runc	v1.0.0-rc92	Apache License 2.0
github.com/opencontainers/selinux	v1.6.0	Apache License 2.0
github.com/pkg/errors	v0.9.1	BSD 2-Clause "Simplified" License
github.com/pmezard/go-difflib	v1.0.0	BSD-3-Clause
github.com/prometheus/client_golang	v1.7.1	Apache License 2.0
github.com/prometheus/client_model	v0.2.0	Apache License 2.0
github.com/prometheus/common	v0.10.0	Apache License 2.0
github.com/quobyte/api	v0.1.8	BSD 3-Clause "New" or "Revised" License
github.com/robfig/cron	v1.1.0	MIT License
github.com/spf13/afero	v1.2.2	Apache License 2.0
github.com/spf13/cobra	v1.1.1	Apache License 2.0
github.com/spf13/jwalterweatherman	v1.1.0	MIT License
github.com/spf13/pflag	v1.0.5	BSD 3-Clause "New" or "Revised" License
github.com/spf13/viper	v1.7.0	MIT License
github.com/storageos/go-api	v2.2.0	MIT & BSD-2-Clause

Table 11-6 (Cont.) Software Package Dependency Licensing Information for kubernetes 1.20.6

Package Name	Version	License
github.com/stretchr/testify	v1.6.1	MIT License
github.com/thecodeteam/goscaleio	v0.1.0	Apache License 2.0
github.com/urfave/negroni	v1.0.0	MIT License
github.com/vishvananda/netlink	v1.1.0	Apache License 2.0
github.com/vmware/govmomi	v0.20.3	Apache License 2.0
go.etcd.io/etcd	dd1b699fc489	Apache License 2.0
golang.org/x/crypto	7f63de1d35b0	BSD-3-Clause
golang.org/x/net	69a78807bb2b	BSD-3-Clause
golang.org/x/oauth2	bf48bf16ab8d	BSD 3-Clause "New" or "Revised" License
golang.org/x/sys	5cba982894dd	BSD-3-Clause
golang.org/x/time	3af7569d3a1e	BSD-3-Clause
golang.org/x/tools	113979e3529a	BSD-3-Clause
gonum.org/v1/gonum	v0.6.2	BSD 3-Clause "New" or "Revised" License
gonum.org/v1/netlib	76723241ea4e	BSD 3-Clause "New" or "Revised" License
google.golang.org/api	v0.20.0	BSD 3-Clause "New" or "Revised" License
google.golang.org/appengine	v1.6.5	Apache License 2.0
google.golang.org/grpc	v1.27.1	Apache License 2.0
gopkg.in/gcfg.v1	v1.2.0	BSD-3-Clause
gopkg.in/square/go-jose.v2	v2.2.2	Apache License 2.0
gopkg.in/yaml.v2	v2.2.8	Apache-2.0
k8s.io/api	v0.0.0	Apache License 2.0
k8s.io/apiextensions-apiserver	v0.0.0	Apache License 2.0
k8s.io/apimachinery	v0.0.0	Apache License 2.0
k8s.io/apiserver	v0.0.0	Apache License 2.0
k8s.io/cli-runtime	v0.0.0	Apache License 2.0
k8s.io/client-go	v0.0.0	Apache License 2.0
k8s.io/cloud-provider	v0.0.0	Apache License 2.0
k8s.io/cluster-bootstrap	v0.0.0	Apache License 2.0
k8s.io/code-generator	v0.0.0	Apache License 2.0
k8s.io/component-base	v0.0.0	Apache License 2.0
k8s.io/component-helpers	v0.0.0	Apache License 2.0
k8s.io/controller-manager	v0.0.0	Apache License 2.0
k8s.io/cri-api	v0.0.0	Apache License 2.0
k8s.io/csi-translation-lib	v0.0.0	Apache License 2.0
k8s.io/gengo	83324d819ded	Apache License 2.0
k8s.io/heapster	v1.2.0-beta.1	Apache License 2.0
k8s.io/klog/v2	v2.4.0	Apache License 2.0
k8s.io/kube-aggregator	v0.0.0	Apache License 2.0

Table 11-6 (Cont.) Software Package Dependency Licensing Information for kubernetes 1.20.6

Package Name	Version	License
k8s.io/kube-controller-manager	v0.0.0	Apache License 2.0
k8s.io/kube-openapi	d219536bb9fd	Apache License 2.0
k8s.io/kube-proxy	v0.0.0	Apache License 2.0
k8s.io/kube-scheduler	v0.0.0	Apache License 2.0
k8s.io/kubectl	v0.0.0	Apache License 2.0
k8s.io/kubelet	v0.0.0	Apache License 2.0
k8s.io/legacy-cloud-providers	v0.0.0	Apache License 2.0
k8s.io/metrics	v0.0.0	Apache License 2.0
k8s.io/mount-utils	v0.0.0	Apache License 2.0
k8s.io/sample-apiserver	v0.0.0	Apache License 2.0
k8s.io/system-validators	v1.2.0	Apache License 2.0
k8s.io/utils	67b214c5f920	Apache License 2.0
sigs.k8s.io/yaml	v1.2.0	MIT & BSD-3-Clause

CRI-O

Table 11-7 Software Package and Container Image Licensing Information for CRI-O

Component	RPM Packages	Container Images	License Information	Dependencies
conmon	conmon-2.0.26-1.[***platform***].x86_64.rpm	No container images.	Apache-2.0	For software package dependency licensing information see Table 11-8.
cri-o	cri-o-1.20.2-1.[***platform***].x86_64.rpm	No container images.	Apache-2.0	For software package dependency licensing information see Table 11-9.
cri-tools	cri-tools-1.20.0-1.[***platform***].x86_64.rpm	No container images.	Apache-2.0	For software package dependency licensing information see Table 11-10.

Table 11-8 Software Package Dependency Licensing Information for conmon 2.0.26

Package Name	Version	License
glibc-static	2.17	LGPLv2+ and LGPLv2+ with exceptions and GPLv2
glib2-devel	2.56.1	LGPLv2+

Table 11-8 (Cont.) Software Package Dependency Licensing Information for conmon 2.0.26

Package Name	Version	License
glibc-devel	2.17	LGPLv2+ and LGPLv2+ with exceptions and GPLv2
pkgconfig	0.27.1	GPLv2+

Table 11-9 Software Package Dependency Licensing Information for cri-o 1.20.2

Package Name	Version	License
github.com/BurntSushi/toml	v0.3.1	MIT License
github.com/Microsoft/go-winio	v0.4.16	MIT License
github.com/blang/semver	v3.5.1	MIT License
github.com/containerd/cgroups	4cbc285b3327	Apache License 2.0
github.com/containerd/containerd	v1.4.1	Apache License 2.0
github.com/containerd/ttrpc	v1.0.2	Apache License 2.0
github.com/containernetworking/cni	v0.8.0	Apache License 2.0
github.com/containernetworking/plugins	v0.8.7	Apache License 2.0
github.com/containers/buildah	v1.15.2	Apache License 2.0
github.com/containers/common	v0.21.0	Apache License 2.0
github.com/containers/conmon	v2.0.20	Apache License 2.0
github.com/containers/image/v5	v5.10.1	Apache License 2.0
github.com/containers/libpod/v2	v2.0.6	Apache License 2.0
github.com/containers/ocicrypt	v1.0.3	Apache License 2.0
github.com/containers/storage	v1.24.5	Apache License 2.0
github.com/coreos/go-systemd/v22	v22.1.0	Apache License 2.0
github.com/cpuguy83/go-md2man	v1.0.10	MIT License
github.com/creack/pty	v1.1.11	MIT License
github.com/cri-o/ocicni	513ef787b8c9	Apache License 2.0
github.com/cyphar/filepath-securejoin	v0.2.2	BSD 3-Clause "New" or "Revised" License
github.com/docker/distribution	v2.7.1	Apache License 2.0
github.com/docker/go-units	v0.4.0	Apache License 2.0

Table 11-9 (Cont.) Software Package Dependency Licensing Information for cri-o 1.20.2

Package Name	Version	License
github.com/fsnotify/fsnotify	v1.4.9	BSD 3-Clause "New" or "Revised" License
github.com/go-zoo/bone	v1.3.0	MIT License
github.com/godbus/dbus/v5	v5.0.3	BSD 2-Clause "Simplified" License
github.com/gogo/protobuf	v1.3.2	BSD-3-Clause
github.com/golang/mock	v1.4.4	Apache License 2.0
github.com/google/renameio	v0.1.0	Apache License 2.0
github.com/google/uuid	v1.1.4	BSD 3-Clause "New" or "Revised" License
github.com/grpc-ecosystem/go-grpc-middleware	v1.2.0	Apache License 2.0
github.com/hashicorp/errwrap	v1.1.0	Mozilla Public License 2.0
github.com/hpcloud/tail	v1.0.0	MIT
github.com/json-iterator/go	v1.1.10	MIT License
github.com/onsi/ginkgo	v1.14.1	MIT License
github.com/onsi/gomega	v1.10.3	MIT License
github.com/opencontainers/go-digest	v1.0.0	Apache-2.0
github.com/opencontainers/image-spec	79b036d80240	Apache License 2.0
github.com/opencontainers/runc	v1.0.0-rc92	Apache License 2.0
github.com/opencontainers/runtime-spec	4d89ac9fbff6	Apache License 2.0
github.com/opencontainers/runtime-tools	07406c5828aa	Apache License 2.0
github.com/opencontainers/selinux	v1.8.0	Apache License 2.0
github.com/pkg/errors	v0.9.1	BSD 2-Clause "Simplified" License
github.com/pquerna/ffjson	aa0246cd15f7	Apache License 2.0
github.com/prometheus/client_golang	v1.7.1	Apache License 2.0
github.com/psampaz/go-mod-outdated	v0.7.0	MIT License
github.com/sirupsen/logrus	v1.7.0	MIT License
github.com/soheilhy/cmux	v0.1.4	Apache License 2.0
github.com/stretchr/testify	v1.7.0	MIT License
github.com/syndtr/gocapability	d98352740cb2	BSD 2-Clause "Simplified" License
github.com/urfave/cli/v2	v2.2.0	MIT License
github.com/vishvananda/netlink	v1.1.0	Apache License 2.0
golang.org/x/net	6772e930b67b	BSD-3-Clause
golang.org/x/sync	67f06af15bc9	BSD-3-Clause

Table 11-9 (Cont.) Software Package Dependency Licensing Information for cri-o 1.20.2

Package Name	Version	License
golang.org/x/sys	16f7687f5001	BSD-3-Clause
google.golang.org/grpc	v1.33.2	Apache License 2.0
k8s.io/api	v0.19.2	Apache License 2.0
k8s.io/apimachinery	v0.19.2	Apache License 2.0
k8s.io/client-go	v0.18.8	Apache License 2.0
k8s.io/cri-api	v0.0.0	Apache License 2.0
k8s.io/klog/v2	v2.4.0	Apache License 2.0
k8s.io/kubernetes	v1.19.2	Apache License 2.0
k8s.io/release	v0.6.0	Apache License 2.0
k8s.io/utils	67b214c5f920	Apache License 2.0
mvdan.cc/sh/v3	v3.2.0	BSD 3-Clause "New" or "Revised" License

Table 11-10 Software Package Dependency Licensing Information for cri-tools 1.20.0

Package Name	Version	License
github.com/docker/distribution	v2.7.1	Apache License 2.0
github.com/docker/docker	c7109494fe65	Apache License 2.0
github.com/docker/go-units	v0.4.0	Apache License 2.0
github.com/golang/glog	23def4e6c14b	Apache License 2.0
github.com/golang/protobuf	v1.4.3	BSD 3-Clause "New" or "Revised" License
github.com/onsi/ginkgo	v1.14.2	MIT License
github.com/onsi/gomega	v1.10.3	MIT License
github.com/opencontainers/go-digest	v1.0.0	Apache-2.0
github.com/opencontainers/selinux	v1.6.0	Apache License 2.0
github.com/pborman/uuid	v1.2.1	BSD 3-Clause "New" or "Revised" License
github.com/pkg/errors	v0.9.1	BSD 2-Clause "Simplified" License
github.com/sirupsen/logrus	v1.7.0	MIT License
github.com/urfave/cli/v2	v2.3.0	MIT License
golang.org/x/net	69a78807bb2b	BSD-3-Clause
golang.org/x/sys	5cba982894dd	BSD-3-Clause
google.golang.org/grpc	v1.33.2	Apache License 2.0
gopkg.in/yaml.v3	eeeca48fe776	Apache-2.0
k8s.io/api	v0.0.0	Apache License 2.0
k8s.io/apimachinery	v0.0.0	Apache License 2.0
k8s.io/client-go	v11.0.0	Apache License 2.0
k8s.io/cri-api	v0.0.0	Apache License 2.0
k8s.io/kubectl	v0.0.0	Apache License 2.0

Table 11-10 (Cont.) Software Package Dependency Licensing Information for cri-tools 1.20.0

Package Name	Version	License
k8s.io/kubernetes	v0.0.0	Apache License 2.0
sigs.k8s.io/yaml	v1.2.0	MIT & BSD-3-Clause

Kata Containers

Table 11-11 Software Package and Container Image Licensing Information for Kata Containers

Component	RPM Packages	Container Images	License Information	Dependencies
kata-ksm-throttler	kata-ksm-throttler-1.12.1-2.[***platform***].x86_64.rpm	No container images.	Apache-2.0	For software package dependency licensing information see Table 11-12.
kata-proxy	kata-proxy-1.12.1-2.[***platform***].x86_64.rpm	No container images.	Apache-2.0	For software package dependency licensing information see Table 11-13.
kata-runtime	kata-runtime-1.12.1-2.[***platform***].x86_64.rpm	No container images.	Apache-2.0	For software package dependency licensing information see Table 11-14.
kata-shim	kata-shim-1.12.1-2.[***platform***].x86_64.rpm	No container images.	Apache-2.0	For software package dependency licensing information see Table 11-15.
kata-image		No container images.	Apache-2.0	For software package dependency licensing information see Table 11-16.

Table 11-12 Software Package Dependency Licensing Information for kata-ksm-throttler 1.12.1

Package Name	Version	License
github.com/davecgh/go-spew	v1.1.0	ISC License
github.com/fsnotify/fsnotify	4da3e2cfbabc9f751898f250b49f2439785783a1	BSD 3-Clause "New" or "Revised" License

Table 11-12 (Cont.) Software Package Dependency Licensing Information for kata-ksm-throttler 1.12.1

Package Name	Version	License
github.com/golang/protobuf	1e59b77b52bf8e4b449a57e6f79f21226d571845	BSD 3-Clause "New" or "Revised" License
github.com/pmezard/go-difflib	v1.0.0	BSD-3-Clause
github.com/sirupsen/logrus	v1.0.3	MIT License
github.com/stretchr/testify	2aa2c176b9dab406a6970f6a55f513e8a8c8b18f	MIT License
golang.org/x/crypto	9f005a07e0d31d45e6656d241bb5c0f2efd4bc94	BSD-3-Clause
golang.org/x/net	a337091b0525af65de94df2eb7e98bd9962dcbe2	BSD-3-Clause
golang.org/x/sys	bf42f188b9bc6f2cf5b8ee5a912ef1aedd0eba4c	BSD-3-Clause
golang.org/x/text	88f656faf3f37f690df1a32515b479415e1a6769	BSD-3-Clause
google.golang.org/genproto	11c7f9e547da6db876260ce49ea7536985904c9b	Apache License 2.0
google.golang.org/grpc	v1.7.3	Apache License 2.0

Table 11-13 Software Package Dependency Licensing Information for kata-proxy 1.12.1

Package Name	Version	License
github.com/davecgh/go-spew	v1.1.0	ISC License
github.com/hashicorp/yamux	f5742cb6	Mozilla Public License 2.0
github.com/pmezard/go-difflib	v1.0.0	BSD-3-Clause
github.com/sirupsen/logrus	v1.0.4	MIT License
github.com/stretchr/testify	v1.2.1	MIT License
golang.org/x/crypto	13931e22f9e72ea58bb73048bc752b48c6d4d4ac	BSD-3-Clause
golang.org/x/sys	810d7000345868fc619eb81f46307107118f4ae1	BSD-3-Clause

Table 11-14 Software Package Dependency Licensing Information for kata-runtime 1.12.1

Package Name	Version	License
github.com/BurntSushi/toml	v0.3.1	MIT License
github.com/Microsoft/go-winio	v0.4.12	MIT License
github.com/Microsoft/hcsshim	v0.8.6	MIT License
github.com/PuerkitoBio/purell	v1.1.1	BSD 3-Clause "New" or "Revised" License
github.com/PuerkitoBio/urlesc	de5bf2ad457846296e2031421a34e2568e304e35	BSD 3-Clause "New" or "Revised" License

Table 11-14 (Cont.) Software Package Dependency Licensing Information for kata-runtime 1.12.1

Package Name	Version	License
github.com/asaskevich/govalidator	ccb8e960c48f04d6935e72476ae4a51028f9e22f	MIT License
github.com/blang/semver	v3.6.1	MIT License
github.com/cilium/ebpf	c8f8abaa9ece88e9be5b888e23e130e726d9afa4	MIT License
github.com/codahale/hdrhistogram	3a0bb77429bd3a61596f5e8a3172445844342120	MIT License
github.com/containerd/cgroups	c4b9ac5c7601384c965b9646fc515884e091ebb9	Apache License 2.0
github.com/containerd/console	0650fd9eeb50bab4fc99dceb9f2e14cf58f36e7f	Apache License 2.0
github.com/containerd/containerd	f05672357f56f26751a521175c5a96fc21fa8603	Apache License 2.0
github.com/containerd/cri-containerd	4dd6735020f5596dd41738f8c4f5cb07fa804c5e	Apache License 2.0
github.com/containerd/fifo	a9fb20d87448d386e6d50b1f2e1fa70dcf0de43c	Apache License 2.0
github.com/containerd/go-runc	7d11b49dc0769f6dbb0d1b19f3d48524d1bad9ad	Apache License 2.0
github.com/containerd/ttrpc	92c8520ef9f86600c650dd540266a007bf03670f	Apache License 2.0
github.com/containerd/typeurl	2a93cfde8c20b23de8eb84a5adbc234ddf7a9e8d	Apache License 2.0
github.com/containernetworking/cni	v0.7.1	Apache License 2.0
github.com/containernetworking/plugins	485be65581341430f9106a194a98f0f2412245fb	Apache License 2.0
github.com/coreos/go-systemd	9002847aa1425fb6ac49077c0a630b3b67e0fbfd	Apache License 2.0
github.com/cri-o/cri-o	3394b3b2d6af0e41d185bb695c6378be5dd4d61d	Apache License 2.0
github.com/davecgh/go-spew	v1.1.1	ISC License
github.com/dlespiau/covertool	b0c4c6d0583aae4e3b5d12b6ec47767670548cc4	Apache License 2.0
github.com/docker/go-units	v0.3.3	Apache License 2.0
github.com/globalsign/mgo	eeefdecb41b842af6dc652aaea4026e8403e62df	BSD-2-Clause
github.com/go-ini/ini	20b96f641a5ea98f2f8619ff4f3e061cff4833bd	Apache License 2.0
github.com/go-logr/logr	v0.2.0	Apache License 2.0
github.com/go-openapi/analysis	v0.18.0	Apache License 2.0
github.com/go-openapi/errors	v0.18.0	Apache License 2.0
github.com/go-openapi/jsonpointer	v0.18.0	Apache License 2.0
github.com/go-openapi/jsonreference	v0.18.0	Apache License 2.0

Table 11-14 (Cont.) Software Package Dependency Licensing Information for kata-runtime 1.12.1

Package Name	Version	License
github.com/go-openapi/loads	v0.18.0	Apache License 2.0
github.com/go-openapi/runtime	v0.18.0	Apache License 2.0
github.com/go-openapi/spec	v0.18.0	Apache-2.0
github.com/go-openapi/strfmt	v0.18.0	Apache License 2.0
github.com/go-openapi/swag	v0.18.0	Apache License 2.0
github.com/go-openapi/validate	v0.18.0	Apache License 2.0
github.com/godbus/dbus	v5.0.1	BSD 2-Clause "Simplified" License
github.com/gogo/protobuf	4cbf7e384e768b4e01799441fdf2a706a5635ae7	BSD-3-Clause
github.com/golang/protobuf	v1.3.0	BSD 3-Clause "New" or "Revised" License
github.com/grpc-ecosystem/grpc-opentracing	8e809c8a86450a29b90dcc9efbf062d0fe6d9746	BSD-3-Clause
github.com/hashicorp/errwrap	v1.0.0	Mozilla Public License 2.0
github.com/hashicorp/go-multierror	v1.0.0	Mozilla Public License 2.0
github.com/hashicorp/yamux	2f1d1f20f75d5404f53b9edf6b53ed5505508675	Mozilla Public License 2.0
github.com/kata-containers/agent	e921aa3d0fa39cbd7933c15bd6ae7f0a1d7ab757	Apache License 2.0
github.com/kata-containers/govmm	7d320e8f5dcad260c1723bda3bff21539750d51f	Apache License 2.0
github.com/konsorten/go-windows-terminal-sequences	v1.0.2	MIT License
github.com/mailru/easyjson	6243d8e04c3f819e79757e8bc3faa15c3cb27003	MIT License
github.com/mdlayher/vsock	7b7533a7ca4eba7dd23dab2de70e25ca6eecf7e2	MIT License
github.com/mitchellh/mapstructure	d0303fe809921458f417bcf828397a65db30a7e4	MIT License
github.com/opencontainers/go-digest	v1.0.0-rc1	Apache-2.0
github.com/opencontainers/runc	2b52db75279ca687e18156de86d845876e9ef35d	Apache License 2.0
github.com/opencontainers/runtime-spec	a1b50f621a48ad13f8f696a162f684a241307db0	Apache License 2.0
github.com/opencontainers/selinux	v1.4.0	Apache License 2.0
github.com/opentracing/opentracing-go	v1.0.2	Apache License 2.0
github.com/pkg/errors	v0.8.1	BSD 2-Clause "Simplified" License
github.com/pmezard/go-difflib	v1.0.0	BSD-3-Clause
github.com/prometheus/procfs	af7bedc223fba51343f25a6fa7aba84355d0357a	Apache License 2.0

Table 11-14 (Cont.) Software Package Dependency Licensing Information for kata-runtime 1.12.1

Package Name	Version	License
github.com/safchain/ethtool	79559b488d8848b53a8e34c330140c3fc37ee246	Apache License 2.0
github.com/seccomp/libseccomp-golang	v0.9.0	BSD 2-Clause "Simplified" License
github.com/sirupsen/logrus	v1.4.2	MIT License
github.com/stretchr/testify	890a5c3458b43e6104ff5da8dfa139d013d77544	MIT License
github.com/uber/jaeger-client-go	v2.15.0	Apache License 2.0
github.com/uber/jaeger-lib	v1.5.0	Apache License 2.0
github.com/urfave/cli	ac249472b7de27a9e8990819566d9be95ab5b816	MIT License
github.com/vishvananda/netlink	c8c507c80ea28385caac72b682dd066e44943913	Apache License 2.0
github.com/vishvananda/netns	86bef332bfc3b59b7624a600bd53009ce91a9829	Apache License 2.0
golang.org/x/net	a8b9294777976932365dabb6640cf1468d95c70f	BSD-3-Clause
golang.org/x/oauth2	5d9234df094ce600ff541158d1491aa10d078a47	BSD 3-Clause "New" or "Revised" License
golang.org/x/sys	b016eb3dc98ea7f69ed55e8216b87187067ae621	BSD-3-Clause
golang.org/x/text	v0.3.0	BSD-3-Clause
google.golang.org/appengine	v1.6.5	Apache License 2.0
google.golang.org/genproto	5fe7a883aa19554f42890211544aa549836af7b7	Apache License 2.0
google.golang.org/grpc	d11072e7ca9811b1100b80ca0269ac831f06d024	Apache License 2.0
gopkg.in/yaml.v2	v2.2.2	Apache-2.0
k8s.io/klog	v2.2.0	Apache License 2.0
k8s.io/kubernetes	v1.18.4	Apache License 2.0

Table 11-15 Software Package Dependency Licensing Information for kata-shim 1.12.1

Package Name	Version	License
github.com/Azure/go-ansiterm	d6e3b3328b783f23731bc4d058875b0371ff8109	MIT License
github.com/codahale/hdrhistogram	3a0bb77429bd3a61596f5e8a3172445844342120	MIT License
github.com/davecgh/go-spew	v1.1.0	ISC License
github.com/docker/docker	bc183a0062c1283cfc47f42ec78501868629dd2b	Apache License 2.0
github.com/gogo/protobuf	4cbf7e384e768b4e01799441fdf2a706a5635ae7	BSD-3-Clause
github.com/golang/protobuf	1e59b77b52bf8e4b449a57e6f79f21226d571845	BSD 3-Clause "New" or "Revised" License

Table 11-15 (Cont.) Software Package Dependency Licensing Information for kata-shim 1.12.1

Package Name	Version	License
github.com/grpc-ecosystem/grpc-opentracing	8e809c8a86450a29b90dcc9efbf062d0fe6d9746	BSD-3-Clause
github.com/hashicorp/yamux	cc6d2ea263b2471faabce371255777a365bf8306	Mozilla Public License 2.0
github.com/kata-containers/agent	5bf8d4cc4614d0e0b3202f0a39d723195e341df8	Apache License 2.0
github.com/konsorten/go-windows-terminal-sequences	v1.0.2	MIT License
github.com/kr/pty	v1.1.0	MIT License
github.com/mdlayher/vsock	7b7533a7ca4eba7dd23dab2de70e25ca6eecf7e2	MIT License
github.com/moby/moby	v1.13.1	Apache License 2.0
github.com/opencontainers/runtime-spec	a1b50f621a48ad13f8f696a162f684a241307db0	Apache License 2.0
github.com/opentracing/opentracing-go	v1.0.2	Apache License 2.0
github.com/pkg/errors	v0.8.0	BSD 2-Clause "Simplified" License
github.com/pmezard/go-difflib	v1.0.0	BSD-3-Clause
github.com/sirupsen/logrus	v1.4.2	MIT License
github.com/stretchr/testify	v1.2.0	MIT License
github.com/uber/jaeger-client-go	v2.15.0	Apache License 2.0
github.com/uber/jaeger-lib	v1.5.0	Apache License 2.0
golang.org/x/net	a8b9294777976932365dabb6640cf1468d95c70f	BSD-3-Clause
golang.org/x/sys	810d7000345868fc619eb81f46307107118f4ae1	BSD-3-Clause
golang.org/x/text	e19ae1496984b1c655b8044a65c0300a3c878dd3	BSD-3-Clause
google.golang.org/genproto	a8101f21cf983e773d0c1133ebc5424792003214	Apache License 2.0
google.golang.org/grpc	d11072e7ca9811b1100b80ca0269ac831f06d024	Apache License 2.0

Table 11-16 Software Package Dependency Licensing Information for kata-image 1.12.1

Package Name	Version	License
golang	1.12.17	BSD
yq	2.4.0	MIT
util-linux	2.23.2	GPLv2 and GPLv2+ and LGPLv2+ and BSD with advertising and Public Domain
e2fsprogs	1.42.9	GPLv2
qemu-img	1.5.3	GPLv2 and GPLv2+ and CC-BY

Table 11-16 (Cont.) Software Package Dependency Licensing Information for kata-image 1.12.1

Package Name	Version	License
parted	3.1	GPLv3+

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This chapter includes information about the licensing for Oracle Server X9-2 components used by Oracle Private Cloud Appliance, including the associated third party-licensing and restrictions that apply as a result.

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1) ./OvmfPkg/License.txt
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4) ./AppPkg/Applications/Python/Python-2.7.10/LICENSE
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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
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    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
```

1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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In May 2000, Guido and the Python core development team moved to
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    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
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    2.1.3           2.1.2       2002        PSF         yes
    2.2.1           2.2         2002        PSF         yes
    2.2.2           2.2.1       2002        PSF         yes
    2.2.3           2.2.2       2003        PSF         yes
    2.3             2.2.2       2002-2003   PSF         yes
    2.3.1           2.3         2002-2003   PSF         yes
    2.3.2           2.3.1       2002-2003   PSF         yes
    2.3.3           2.3.2       2002-2003   PSF         yes
    2.3.4           2.3.3       2004        PSF         yes
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2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
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15

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Licensing Information User Manual Oracle ZFS Storage ZS9-2, Release OS8.8.x

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

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

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

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

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

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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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non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
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All Python releases are Open Source (see http://www.opensource.org for
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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jakarta.ws.rs-api

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jakarta.validation-api

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OCI SDK for Python

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