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Contents

1.1 cosmos-sdk v0.43.0-rc0

1.1.1 Available under license

1.2 bolt v1.3.1

1.2.1 Available under license

1.3 prometheus-procfs v0.0.11

1.3.1 Available under license

1.4 go-chi-chi v4.1.0+incompatible

1.4.1 Available under license

1.5 google-go-cmp v0.5.4

1.5.1 Available under license

1.6 benbjohnson-immutable v0.2.1

1.6.1 Available under license

1.7 go-immutable-radix v1.2.0

1.7.1 Available under license

1.8 influxdata-httprouter v1.3.1-0.20191122104820-ee83e2772f69

1.8.1 Available under license

1.9 pgzip v1.0.2-0.20170402124221-0bf5dcad4ada

1.9.1 Available under license

1.10 go.uber.org/atomi v1.6.0

1.10.1 Available under license

1.11 hashicorp-raft v0.1.0

1.11.1 Available under license

1.12 jaeger-lib v2.2.0+incompatible

1.12.1 Available under license

1.13 go-uber-org-multierr v1.5.0

1.13.1 Available under license

1.14 golang-genproto v0.0.0-20210122163508-8081c04a3579

1.14.1 Available under license

1.15 influxdata-plutonium v1.12.0

1.15.1 Available under license

1.16 perks v1.0.1

1.16.1 Available under license

1.17 x-text v0.3.4

1.17.1 Available under license

1.18 prometheus-client v0.2.0

1.18.1 Available under license

1.19 go.etcd.io-bbolt v1.3.5

1.19.1 Available under license

1.20 toml v0.3.1

1.20.1 Available under license

1.21 nomad v1.1.2

1.21.1 Available under license

1.22 treeprint v0.0.0-20180616005107-d6fb6747feb6

1.22.1 Available under license

1.23 x-crypto v0.0.0-20200622213623-75b288015ac9

1.23.1 Available under license

1.24 goprotobuf v1.4.3

1.24.1 Available under license

1.25 influxdata-roaring v0.4.13-0.20180809181101-fc520f41fab6

1.25.1 Available under license

1.26 armon-go-metrics v0.3.6

1.26.1 Available under license

1.27 gopkg.in-asn1-ber v1.0.0-20170511165959-379148ca0225

1.27.1 Available under license

1.28 fwd v1.1.1

1.28.1 Available under license

1.29 jsternberg-zap-logfmt v1.2.0

1.29.1 Available under license

1.30 msgp v1.1.0

1.30.1 Available under license

1.31 go-msgpack v0.5.5

1.31.1 Available under license

1.32 jwt-go v3.2.0+incompatible

1.32.1 Available under license

1.33 gorilla v1.3.0

- 1.33.1 Available under license
- 1.34 influxdata-raft-boltdb v0.0.0-20210323121340-465fcd3eb4d8**
 - 1.34.1 Available under license
- 1.35 opentracing-go v1.1.0**
 - 1.35.1 Available under license
- 1.36 prometheus-common v0.9.1**
 - 1.36.1 Available under license
- 1.37 google-flatbuffers v1.11.1-0.20190424190944-bf9eb67ab937**
 - 1.37.1 Available under license
- 1.38 influxdata-usage-client v0.0.0-20160829180054-6d3895376368**
 - 1.38.1 Available under license
- 1.39 x-sync v0.0.0-20201020160332-67f06af15bc9**
 - 1.39.1 Available under license
- 1.40 dvsekhvalnov-jose2go v0.0.0-20170216131308-f21a8cedbbae**
 - 1.40.1 Available under license
- 1.41 apache-arrow-go-arrow v0.0.0-20200923215132-ac86123a3f01**
 - 1.41.1 Available under license
- 1.42 gogoprotobuf v1.3.1**
 - 1.42.1 Available under license
- 1.43 x-xerrors v0.0.0-20200804184101-5ec99f83aff1**
 - 1.43.1 Available under license
- 1.44 x-sys v0.0.0-20210124154548-22da62e12c0c**
 - 1.44.1 Available under license
- 1.45 golang-lru v0.5.4**
 - 1.45.1 Available under license
- 1.46 go-unsnap-stream v0.0.0-20210130063903-47dfef350d96**
 - 1.46.1 Available under license
- 1.47 influxdata-flux v0.113.0**
 - 1.47.1 Available under license
- 1.48 klauspost-compress v1.9.5**
 - 1.48.1 Available under license
- 1.49 jaeger-client-go v2.23.0+incompatible**
 - 1.49.1 Available under license
- 1.50 zap v1.14.1**
 - 1.50.1 Available under license
- 1.51 fullsailor-pkcs7 v0.0.0-20190404230743-d7302db945fa**
 - 1.51.1 Available under license
- 1.52 yamux v0.0.0-20171107173414-1f58ded512de**
 - 1.52.1 Available under license

1.53 grpc-go v1.34.1

1.53.1 Available under license

1.54 go-isatty v0.0.12

1.54.1 Available under license

1.55 influxdata-toml v0.0.0-20171107173414-1f58ded512de

1.55.1 Available under license

1.56 influxdata-influxql v1.1.1-0.20210223160523-b6ab99450c93

1.56.1 Available under license

1.57 xxhash v2.1.1

1.57.1 Available under license

1.58 gopkg-in/ldap v2.5.1

1.58.1 Available under license

1.59 going v0.0.0-20161008142520-cb26602a8b21

1.59.1 Available under license

1.60 cpp releases-gcc-10.2.0

1.60.1 Available under license

1.61 crc32 v1.2.0

1.61.1 Available under license

1.62 sergi-go-diff v1.0.0

1.62.1 Available under license

1.63 x-time-rate v0.0.0-20200416051211-89c76fbcd5d1

1.63.1 Available under license

1.64 andreyvit-diff v0.0.0-20170406064948-c7f18ee00883

1.64.1 Available under license

1.65 gofrs-uuid v3.3.0+incompatible

1.65.1 Available under license

1.66 golang-snappy v0.0.1

1.66.1 Available under license

1.67 x-net v0.0.0-20201224014010-6772e930b67b

1.67.1 Available under license

1.68 protobuf v1.25.0

1.68.1 Available under license

1.69 golang-protobuf-extensions v1.0.1

1.69.1 Available under license

1.70 influxdb v1.9.2

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1.15 influxdata-plutonium v1.12.0

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package command

```
import (  
    "fmt"  
  
    "github.com/hashicorp/nomad/api"  
    "github.com/posener/complete"  
)  
  
type LicenseGetCommand struct {  
    Meta  
}  
  
func (c *LicenseGetCommand) Help() string {  
    helpText := `  
Usage: nomad license get [options]
```

Gets the license loaded by the server. The command is not forwarded to the Nomad leader, and will return the license from the specific server being contacted.

When ACLs are enabled, this command requires a token with the 'operator:read' capability.

General Options:

```
` + generalOptionsUsage(usageOptsDefault|usageOptsNoNamespace)  
  
return helpText  
}  
  
func (c *LicenseGetCommand) AutocompleteFlags() complete.Flags {  
    return complete.Flags{}  
}  
  
func (c *LicenseGetCommand) AutocompleteArgs() complete.Predictor {  
    return complete.PredictNothing  
}  
  
func (c *LicenseGetCommand) Synopsis() string {  
    return "Retrieve the current Nomad Enterprise License"
```

```

}

func (c *LicenseGetCommand) Name() string { return "license get" }

func (c *LicenseGetCommand) Run(args []string) int {
    flags := c.Meta.FlagSet(c.Name(), FlagSetClient)
    flags.Usage = func() { c.Ui.Output(c.Help()) }

    if err := flags.Parse(args); err != nil {
        c.Ui.Error(fmt.Sprintf("Error parsing flags: %s", err))
        return 1
    }

    client, err := c.Meta.Client()
    if err != nil {
        c.Ui.Error(fmt.Sprintf("Error initializing client: %s", err))
        return 1
    }

    resp, _, err := client.Operator().LicenseGet(&api.QueryOptions{ })
    if err != nil {
        c.Ui.Error(fmt.Sprintf("Error getting license: %v", err))
        return 1
    }

    return OutputLicenseReply(c.Ui, resp)
}

```

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The license command is used to interact with an enterprise license.

Command: license

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Usage

Usage: `nomad license <subcommand> [options]`

Run `nomad license <subcommand> -h` for help on that subcommand. The following subcommands are available:

- [`license get`][`get`] - Get the current license

[`get`]: `/docs/commands/license/get` 'Get the current license'

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* github.com/BurntSushi/toml - <https://github.com/BurntSushi/toml>

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* github.com/google/renameio - <https://github.com/google/renameio>

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* github.com/kisielk/gotool - <https://github.com/kisielk/gotool>

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match.go, match_test.go:

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* github.com/rogpeppe/go-internal - <https://github.com/rogpeppe/go-internal>

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* golang.org/x/mod/module - <https://github.com/golang/mod>

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* golang.org/x/tools/go/analysis - <https://github.com/golang/tools>

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* gogrep - <https://github.com/mvdan/gogrep>

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* gosmith - <https://github.com/dvyukov/gosmith>

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```
package api
```

```
import (  
    "io/ioutil"  
    "strings"  
    "time"  
)
```

```
type License struct {  
    // The unique identifier of the license  
    LicenseID string `json:"license_id"`  
  
    // The customer ID associated with the license  
    CustomerID string `json:"customer_id"`  
  
    // If set, an identifier that should be used to lock the license to a  
    // particular site, cluster, etc.  
    InstallationID string `json:"installation_id"`  
  
    // The time at which the license was issued  
    IssueTime time.Time `json:"issue_time"`  
  
    // The time at which the license starts being valid  
    StartTime time.Time `json:"start_time"`  
  
    // The time after which the license expires  
    ExpirationTime time.Time `json:"expiration_time"`  
  
    // The time at which the license ceases to function and can  
    // no longer be used in any capacity  
    TerminationTime time.Time `json:"termination_time"`  
  
    // The product the license is valid for  
    Product string `json:"product"`  
  
    // License Specific Flags  
    Flags map[string]interface{} `json:"flags"`  
  
    // Modules is a list of the licensed enterprise modules  
    Modules []string `json:"modules"`
```

```

// List of features enabled by the license
Features []string `json:"features"`
}

type LicenseReply struct {
    Valid bool
    License *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return "", err
    }
    defer resp.Body.Close()

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

    return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
}

```



```

defer resp.Body.Close()

if err := decodeBody(resp, &reply); err != nil {
    return nil, err
}

return &reply, nil
}

func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.NewRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()

    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }

    return &reply, nil
}

```

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Protocol Buffers for Go with Gadgets

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

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<https://github.com/golang/protobuf>

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layout: docs

page_title: 'Commands: license get'

description: |

The license get command is used to get the current license.

Command: license get

The `license get` command is used to retrieve the current Nomad Enterprise license. The command is not forwarded to the Nomad leader, and will return the license from the specific server being contacted.

~> License commands are new in Nomad 0.12.0 and are only available with Nomad Enterprise.

Usage

```plaintext

nomad license get [options]

```

When ACLs are enabled, this command requires a token with the 'operator:read' capability.

General Options

@include 'general_options_no_namespace.mdx'

Examples

```shell-session

\$ nomad license get

Product = nomad

License Status = valid

License ID = e23f63b1-00ec-4e67-e926-c22e7937ceec  
Customer ID = 350356e5-8aec-bdf4-8510-b205079ccad2  
Expires At = 2020-05-09 00:00:00 +0000 UTC  
License ID = e23f63b1-00ec-4e67-e926-c22e7937ceec  
Customer ID = 350356e5-8aec-bdf4-8510-b205079ccad2  
Terminates At = 2020-05-10 00:00:00 +0000 UTC  
Datacenter = \*

Modules:

governance-policy

Licensed Features:

Automated Upgrades

Enhanced Read Scalability

Redundancy Zones

Namespaces

Resource Quotas

Preemption

Audit Logging

Sentinel Policies

...

```shell-session

\$ nomad license get -stale=true

Product = nomad

License Status = valid

License ID = 8c647f6c-1e6d-18d8-7f05-92c4d8110b2d

Customer ID = 350356e5-8aec-bdf4-8510-b205079ccad2

Issued At = 2021-03-31 14:21:16.969610774 +0000 UTC

Expires At = 2022-04-01 00:00:00 +0000 UTC

Terminates At = 2022-04-04 00:00:00 +0000 UTC

Datacenter = *

Modules:

governance-policy

multicluster-and-efficiency

Licensed Features:

Automated Upgrades

Enhanced Read Scalability

Redundancy Zones

Namespaces

Resource Quotas

Audit Logging

Sentinel Policies

Multiregion Deployments

Automated Backups

Multi-Vault Namespaces

...

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```
---
layout: api
page_title: License - Operator - HTTP API
description: |-
  The /operator/license endpoints allow for retrieving the Nomad Enterprise License.
---
```

License Operator HTTP API

<EnterpriseAlert />

Get Nomad Enterprise License Info

This endpoint gets information about the current license.

| Method | Path | Produces |
|--------|----------------------|------------------|
| GET | /v1/operator/license | application/json |

The table below shows this endpoint's support for [blocking queries](/api-docs#blocking-queries) and [required ACLs](/api-docs#acls).

| Blocking Queries | ACL Required |
|------------------|---------------|
| NO | operator:read |

Sample Request

```
```shell-session
$ curl \
 https://localhost:4646/v1/operator/license
```
```

Sample Response

```
```json
{
 "KnownLeader": false,
 "LastContact": 0,
 "LastIndex": 0,
 "License": {
 "CustomerID": "customer name",
 "ExpirationTime": "2020-06-01T14:50:16.581304556-04:00",
 "Features": [
 "Automated Upgrades",
 "Enhanced Read Scalability",
 "Redundancy Zones",
]
 }
}
```

```

"Namespaces",
"Resource Quotas",
"Preemption",
"Audit Logging",
"Setinel Policies"
],
"Flags": {
 "modules": ["governance-policy"]
},
"InstallationID": "*",
"IssueTime": "2020-06-01T08:50:16.581304556-04:00",
"LicenseID": "6f706a45-bdac-4a70-968b-d93784894653",
"Modules": ["governance-policy"],
"Product": "nomad",
"StartTime": "2020-06-01T08:50:16.581304556-04:00",
"TerminationTime": "2020-06-01T14:50:16.581304556-04:00"
},
"RequestTime": 0
}
...

```

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---

layout: docs

page\_title: Nomad Enterprise Licensing

description: >-

Learn about how Nomad Enterprise licensing works.

---

## ## Nomad Enterprise Licensing

Licensing capabilities were added to Nomad Enterprise v0.12.0. Each server in the cluster must have its own license. Nomad Enterprise can be downloaded from the [releases site].

Click [here](https://www.hashicorp.com/go/nomad-enterprise) to set up a demo of Nomad Enterprise or [here](https://nomadproject.io/trial) to get a trial license.

~> **Note:** A Nomad Enterprise cluster cannot be downgraded to the open source version of Nomad. Servers running the open source version of Nomad will panic if they are joined to a Nomad Enterprise cluster. See issue [gh-9958] for more details.

## ## Expiring Licenses

Nomad Enterprise license have an expiration time. You can read the license on a server with the ``nomad license get`` command:

```
...
$ nomad license get
Product = nomad
License Status = valid
License ID = eaaecbd5-b598-4fa4-b649-bb234bf49fa3
Customer ID = ae94bdd0-39bf-4c58-bf80-8a9468b0467c
Issued At = 2021-03-29 14:47:29.024191 -0400 EDT
Expires At = 2021-03-29 20:47:29.024191 -0400 EDT
Datacenter = *
Modules:
 governance-policy
 multicluster-and-efficiency
Licensed Features:
 Automated Upgrades
 Enhanced Read Scalability
 Redundancy Zones
 Namespaces
 Resource Quotas
 Audit Logging
 Sentinel Policies
 Multiregion Deployments
 Automated Backups
 Multi-Vault Namespaces
 Dynamic Application Sizing
...
```

As a Nomad Enterprise license approaches its expiration time, Nomad servers will periodically log a warning message about the approaching



expiration. Below shows log excerpts of the warnings.

...

```
2021-03-29T15:02:28.100-0400 [WARN] nomad.licensing: license expiring: time_left=5m0s
2021-03-29T15:03:28.103-0400 [WARN] nomad.licensing: license expiring: time_left=4m0s
2021-03-29T15:04:28.106-0400 [WARN] nomad.licensing: license expiring: time_left=3m0s
2021-03-29T15:05:28.109-0400 [WARN] nomad.licensing: license expiring: time_left=2m0s
2021-03-29T15:06:28.112-0400 [WARN] nomad.licensing: license expiring: time_left=1m0s
2021-03-29T15:07:28.114-0400 [WARN] nomad.licensing: license expiring: time_left=0s
2021-03-29T15:07:58.104-0400 [ERROR] nomad.licensing: license expired, please update license: error="invalid
license or license is expired"
...
```

When the license expires, enterprise functionality will become limited. Only read operations on enterprise endpoints will be supported, and write operations will return an error.

Note that if the server is restarted with an expired license, it will immediately stop.

## ## Configuring the License

See the server [license configuration] reference documentation on all the options to set an enterprise license. Nomad will load the license file from disk or environment when it starts.

~> **Note:** An Enterprise license [tutorial](<https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=nomad/enterprise>) is available to help you install the license on the server.

In order to immediately alert operators of a bad configuration setting, if a license configuration option is an invalid or expired license, the Nomad server will exit with an error.

...

```
NOMAD_LICENSE=misconfigured nomad agent -dev
==> No configuration files loaded
==> Starting Nomad agent...
==> Error starting agent: server setup failed: failed to initialize enterprise licensing: a file license was configured but
the license is invalid: error decoding version: expected integer
...
```

See the [License commands](/docs/commands/license) for more information on interacting with the Enterprise License.

[gh-9958]: <https://github.com/hashicorp/nomad/issues/9958>

[releases site]: <https://releases.hashicorp.com/nomad>

[license configuration]: /docs/configuration/server#license\_path

[license endpoint]: /api-docs/operator/license#updating-the-nomad-enterprise-license

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vSphere Integrated Containers Engine 1.5.2 GA

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PART 1. VIRTUAL APPLIANCE: APPLICATION LAYER

SECTION 1: Apache License, V2.0

- >>> appengine-ca59ef35f409df61fa4a5f8290ff289b37eccfb8
- >>> aws\_aws-sdk-go\_aws-master
- >>> coreos\_etcd\_client-781196fa8746d6c34ace2a62898051af6dc46002
- >>> coreos\_etcd\_version-781196fa8746d6c34ace2a62898051af6dc46002
- >>> coreos\_go-semver\_semver-5e3acbb5668c4c3deb4842615c4098eb61fb6b1e
- >>> docker\_distribution-28602af35aceda2f8d571bad7ca37a54cf0250bc
- >>> docker\_go-events-aa2e3b613fbbfdddbe055a7b9e3ce271cfd83eca
- >>> docker\_libnetwork-fd27f22aaa35e3d57f88688f919d05b744f431fd
- >>> docker\_libtrust-9cbd2a1374f46905c68a4eb3694a130610adc62a
- >>> go-openapi\_analysis-d5a75b7d751ca3f11ad5d93cfe97405f2c3f6a47
- >>> go-openapi\_errors-fc3f73a224499b047eda7191e5d22e1e9631e86f
- >>> go-openapi\_jsonpointer-779f45308c19820f1a69e9a4cd965f496e0da10f
- >>> go-openapi\_jsonreference-36d33bfe519efae5632669801b180bf1a245da3b
- >>> go-openapi\_loads-6bb6486231e079ea125c0f39994ed3d0c53399ed
- >>> go-openapi\_runtime-3b13ebb46790d871d74a6c2450fa4b1280f90854
- >>> go-openapi\_spec-e072eb2390d3a03736a6eb617d30f48369160447
- >>> go-openapi\_strfmt-0cb3db44c13bad3b3f567b762a66751972a310cc
- >>> go-openapi\_swag-96d7b9ebd181a1735a1c9ac87914f2b32fbf56c9

```
>>> go-openapi_validate-035dcd74f1f61e83debe1c22950dc53556e7e4b2
>>> go_compute_metadata-cd0da878c66091060d2e7403abd62192b3e387e0
>>> go_internal-cd0da878c66091060d2e7403abd62192b3e387e0
>>> golang_glog-23def4e6c14b4da8ac2ed8007337bc5eb5007998
>>> golang_groupcache_lru-72d04f9fcdec7d3821820cc4a6f150eae553639a
>>> govmomi-v0.17.1
>>> maruel_panicparse_stack-25bcac0d793cf4109483505a0d66e066a3a90a80
>>> oxtoacart/bpool-4e1c5567d7c2dd59fa4c7c83d34c2f3528b025d6
>>> syncutil_singleflight-7ce08ca145dbe0e66a127c447b80ee7914f3e4f9
>>> vdemeester_shakers-24d7f1d6a71aa5d9cbe7390e4afb66b7eef9e1b3
>>> vishvananda_netlink-482f7a52b758233521878cb6c5904b6bd63f3457
>>> vishvananda_netns-604eaf189ee867d8c147fafc28def2394e878d25
>>> yaml_v2-4c78c975fe7c825c6d1466c42be594d1d6f3aba6
```

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```
>>> agl_ed25519-master
>>> airbrake_gobrake_v2-c9d51adc624b5cc4c1bf8de730a09af4878ffe2d
>>> api_compute_v1-dfa61ae24628a06502b9c2805d983b57e89399b5
>>> api_gensupport-dfa61ae24628a06502b9c2805d983b57e89399b5
>>> api_googleapi-dfa61ae24628a06502b9c2805d983b57e89399b5
>>> armon_go-metrics-f303b03b91d770a11a39677f1d3b55da4002bbcb
>>> armon_go-radix-4239b77079c7b5d1243b7b4736304ce8ddb6f0f2
>>> asaskevich_govalidator-9699ab6b38bee2e02cd3fe8b99ecf67665395c96
>>> azure_go-ansiterm-70b2c90b260171e829f1ebd7c17f600c11858dbe
>>> boltdb_bolt-b514920f8f2e0a68f857e5a12c774f385a59aef9
>>> cenkalti_backoff-b02f2bbce11d7ea6b97f282ef1771b0fe2f65ef3
>>> client9_misspell-9a1fc2456ac9e8c9b4cbe9d005b6e7adac0d357f
>>> codegangsta/inject-33e0aa1cb7c019ccc3fbc049a8262a6403d30504
>>> codegangsta_cli-master
>>> cpuguy83_go-md2man_md2man-a65d4d2de4d5f7c74868dfa9b202a3c8be315aaa
>>> d2g_dhcp4-f0e4d29ff0231dce36e250b2ed9ff08412584bca
>>> deckarep_golang-set-1f0f4ff8d3fbef9328522993ce71c35890f67554
>>> dustin_go-humanize-259d2a102b871d17f30e3cd9881a642961a1e486
>>> gemnasium_logrus-airbrake-hook_v2-31e6fd4bd5a98d8ee7673d24bc54ec73c31810dd
>>> gizak_termui-798ffb9cbbe4073ef1f88e6069ca4a2c6aa6676b
>>> go-check_check-20d25e2804050c1cd24a7eea1e7a6447dd0e74ec
>>> go-martini/martini-22fa46961aabd2665cf3f1343b146d20028f5071
>>> go-nfs-client-42fca177a36031d648551c751de1daf5f55dd4f0
>>> godbus_dbus-230e4b23db2fd81c53eaa0073f76659d4849ce51
>>> gogo_protobuf_gogoproto-6a92c871a8f5333cf106b2cdf937567208dbb2b7
>>> gogo_protobuf_proto-6a92c871a8f5333cf106b2cdf937567208dbb2b7
>>> gogo_protobuf_protoc-gen-gogo_descriptor-6a92c871a8f5333cf106b2cdf937567208dbb2b7
>>> gogo_protobuf_sortkeys-6a92c871a8f5333cf106b2cdf937567208dbb2b7
>>> gogo_protobuf_types-6a92c871a8f5333cf106b2cdf937567208dbb2b7
>>> goji/param-d7f49fd7d1ed53fd562e737a8b5bbcc7e3d925e2
>>> golang_lint-cb00e5669539f047b2f4c53a421a01b0c8e172c6
```



```
>>> google_go-github_github-7a51fb928f52a196d5f31daefb8a489453ef54ff
>>> google_go-querystring_query-53e6ce116135b80d037921a7fdd5138cf32d7a8a
>>> google_uuid-f3f4b54b2fabcf1f11dcc939025bb0c109b00ed8
>>> googleapis_gax-go-da06d194a00e19ce00d9011a13931c3f6f6887c7
>>> gorilla_context-1c83b3eabd45b6d76072b66b746c20815fb2872d
>>> gorilla_mux-acf3be1b335c8ce30b2c8d51300984666f0ceefa
>>> gorilla_securecookie-fa5329f913702981df43dcb2a380bac429c810b5
>>> gorilla_sessions-ca9ada44574153444b00d3fd9c8559e4cc95f896
>>> gorilla_websocket-a91eba7f9777409bc2c443f5534d41dd20c5720
>>> graylog2_go-gelf_gelf-master
>>> grpc-b1a2821ca5a4fd6b6e48ddfbb7d6d7584d839d21
>>> hpcloud_tail-a30252cb686a21eb2d0b98132633053ec2f7f1e5
>>> jessevdk_go-flags-97448c91aac742cbca3d020b3e769013a420a06f
>>> julienschmidt/httprouter-975b5c4c7c21c0e3d2764200bf2aa8e34657ae6e
>>> justinas/alice-1051eaf52fcfadd87ead59d28b065f1fcb8274ec
>>> kr_pty-f7ee69f31298ecbe5d2b349c711e2547a617d398
>>> mailru_easyjson-99e922cf9de1bc0ab38310c277cff32c2147e747
>>> martini-contrib/render-ec18f8345a1181146728238980606fb1d6f40e8c
>>> matryer_resync-d39c09a11215c84aab0b65e323fc47dd6e276af1
>>> mattn_go-runewidth-14207d285c6c197daabb5c9793d63e7af9ab2d50
>>> mdlayher/arp-7140e8e22da120cb3efc8e1096f299933624024e
>>> mdlayher/ethernet-e72cf8343052938936194daba1914fd1bb33d2fe
>>> mdlayher/raw-c83864e487652c25edc58048eafdc1dfa2f142c7
>>> microsoft_go-winio-24a3e3d3fc7451805e09d11e11e95d9a0a4f205e
>>> microsoft_hcsshim-d327ca738085de7d617aa1df16d98fe7a64c2455
>>> miekg_dns-ca336a1f95a6b89be9c250df26c7a41742eb4a6f
>>> mitchellh_go-wordwrap-ad45545899c7b13c020ea92b2072220eefad42b8
>>> mitchellh_mapstructure-5a0325d7fafaac12dda6e7fb8bd222ec1b69875e
>>> mreiferson_go-httpclient-31f0106b4474f14bc441575c19d3a5fa21aa1f6c
>>> naoina_denco-9af2ba0e24214bac003821f4a501b131b2e04c75
>>> nlopes_slack-f243c7602fdf906248fc1f165284daa4e4d2d09e
>>> nsf_termbox-go-91bae1bb5fa9ee504905ecbe7043fa30e92feaa3
>>> opennota_urlesc-5fa9ff0392746aeae1c4b37fcc42c65afa7a9587
>>> pkg_profile-8a808a6967b79da66deacfe508b26d398a69518f
>>> puerkitobio_purell-d69616f51cdfcd7514d6a380847a152dfc2a749d
>>> racksec_srslog-a974ba6f7fb527d2ddc73ee9c05d3e2ccc0af0dc
>>> rs/cors-8dd4211afb5d08dbb39a533b9bb9e4b486351df6
>>> ryanuber_go-glob-256dc444b735e061061cf46c809487313d5b0065
>>> sirupsen_logrus-d26492970760ca5d33129d2d799e34be5c4782eb
>>> smartystreets_assertions-287b4346dc4e71a038c346375a9d572453bc469b
>>> smartystreets_assertions_internal_oglematchers-287b4346dc4e71a038c346375a9d572453bc469b
>>> smartystreets_assertions_internal_oglemock-287b4346dc4e71a038c346375a9d572453bc469b
>>> smartystreets_assertions_internal_ogletest-287b4346dc4e71a038c346375a9d572453bc469b
>>> smartystreets_assertions_internal_reqtrace-287b4346dc4e71a038c346375a9d572453bc469b
>>> stretchr_objx-1a9d0bb9f541897e62256577b352fdbcb1fb4fd94
>>> tomb_v1-dd632973f1e7218eb1089048e0798ec9ae7dceb8
>>> tylerb/graceful.v1-4654dfbb6ad53cb5e27f37d99b02e16c1872fbbb
>>> tylerb_graceful-d7d7a205e779a4738d38eda0671fff8bfc965f14
```

```
>>> ugorji_go_codec-708a42d246822952f38190a8d8c4e6b16a0e600c
>>> urfave/negroni-ccc4a14984828dcb944e6f17fa4a967b18624f2b
>>> urfave_cli_v1-0bdeddeeb0f650497d603c4ad7b20cfe685682f6
>>> x_crypto_acme-728b753d0135da6801d45a38e6f43ff55779c5c2
>>> x_crypto_curve25519-728b753d0135da6801d45a38e6f43ff55779c5c2
>>> x_crypto_ed25519-728b753d0135da6801d45a38e6f43ff55779c5c2
>>> x_crypto_nacl_secretbox-728b753d0135da6801d45a38e6f43ff55779c5c2
>>> x_crypto_poly1305-728b753d0135da6801d45a38e6f43ff55779c5c2
>>> x_crypto_salsa20_salsa-728b753d0135da6801d45a38e6f43ff55779c5c2
>>> x_crypto_ssh-728b753d0135da6801d45a38e6f43ff55779c5c2
>>> x_net_context-a6577fac2d73be281a500b310739095313165611
>>> x_net_http2-a6577fac2d73be281a500b310739095313165611
>>> x_net_idna-a6577fac2d73be281a500b310739095313165611
>>> x_net_internal_timeseries-a6577fac2d73be281a500b310739095313165611
>>> x_net_lex_httplex-a6577fac2d73be281a500b310739095313165611
>>> x_net_proxy-a6577fac2d73be281a500b310739095313165611
>>> x_net_trace-a6577fac2d73be281a500b310739095313165611
>>> x_net_websocket-a6577fac2d73be281a500b310739095313165611
>>> x_oauth2-1611bb46e67abc64a71ecc5c3ae67f1cbbc2b921
>>> x_sync_singleflight-5a06fca2c336a4b2b2fcb45702e8c47621b2aa2c
>>> x_sys_unix-99f16d856c9836c42d24e7ab64ea72916925fa97
>>> x_sys_windows-99f16d856c9836c42d24e7ab64ea72916925fa97
>>> x_text_internal-f28f36722d5ef2f9655ad3de1f248e3e52ad5ebd
>>> x_text_language-f28f36722d5ef2f9655ad3de1f248e3e52ad5ebd
>>> x_text_message-f28f36722d5ef2f9655ad3de1f248e3e52ad5ebd
>>> x_tools_go_ast_astutil-381149a2d6e5d8f319ccf04bfefc71e03a78b868
>>> x_tools_go_buildutil-381149a2d6e5d8f319ccf04bfefc71e03a78b868
>>> x_tools_go_gcexportdata-381149a2d6e5d8f319ccf04bfefc71e03a78b868
>>> x_tools_go_gcimporter15-381149a2d6e5d8f319ccf04bfefc71e03a78b868
>>> x_tools_go_loader-381149a2d6e5d8f319ccf04bfefc71e03a78b868
>>> x_tools_imports-381149a2d6e5d8f319ccf04bfefc71e03a78b868
>>> zenazn/goji-c05078ca81941f8e801bba3ddc0e6b86b7fdc893
```

### SECTION 3: Mozilla Public License, V2.0

```
>>> d2g_dhcp4client-master
>>> hashicorp_go-cleanhttp-875fb671b3ddc66f8e2f0acc33829c8cb989a38d
>>> hashicorp_memberlist-cef12ad58224d55cf26caa9e3d239c2fcb3432a2
```

## PART 2. VIRTUAL APPLIANCE: OPERATING SYSTEM LAYER

### SECTION 1: Academic Free License, V2.1

```
>>> dbus-1.11.12-1.ph2
```

## SECTION 2: Apache License, V2.0

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

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

>>> bzip2-1.0.6-8.ph2  
>>> curl-7.59.0-4.ph2  
>>> expat-2.2.4-1.ph2  
>>> iputils-20151218-4.ph2  
>>> krb5-1.16-2.ph2  
>>> libarchive-3.3.1-2.ph2  
>>> libcap-2.25-7.ph2  
>>> libdb-5.3.28-1.ph2  
>>> libffi-3.2.1-5.ph2  
>>> libsolv-0.6.26-3.ph2  
>>> libssh2-1.8.0-1.ph2  
>>> libtirpc-1.0.1-8.ph2  
>>> linux-pam-1.3.0-1.ph2  
>>> lsof-4.89-2.ph2  
>>> ncurses-6.0-14.ph2  
>>> openssh-7.5p1-11.ph2  
>>> openssl-1.0.2q-1.ph2  
>>> pcre-8.41-1.ph2  
>>> popt-1.16-5.ph2  
>>> shadow-4.2.1-16.ph2  
>>> sqlite-3.22.0-3.ph2  
>>> sudo-1.8.20p2-5.ph2  
>>> vim-8.0.0533-6.ph2  
>>> xz-5.2.3-2.ph2  
>>> zlib-1.2.11-1.ph2

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>>> e2fsprogs-1.43.4-2.ph2  
>>> gcc-6.3.0-7.ph2  
>>> iproute2-4.10.0-3.ph2  
>>> iptables-1.6.1-4.ph2  
>>> linux-esx-4.9.154-1.ph2  
>>> logrotate-3.11.0-3.ph2  
>>> mingetty-1.08-2.ph2  
>>> net-tools-1.60-11.ph2  
>>> procps-ng-3.3.15-2.ph2  
>>> rpm-4.13.0.2-1.ph2  
>>> tdnf-1.2.3-6.ph2

>>> util-linux-2.32-1.ph2

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>>> bash-4.4.12-3.ph2  
>>> coreutils-8.27-3.ph2  
>>> elfutils-0.169-3.ph2  
>>> grep-3.0-4.ph2  
>>> gzip-1.8-1.ph2  
>>> haveged-1.9.1-4.ph2  
>>> readline-7.0-2.ph2

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>>> cracklib-2.9.6-8.ph2  
>>> glibc-2.26-13.ph2  
>>> hawkey-2017.1-6.ph2  
>>> kmod-24-3.ph2  
>>> libgcrypt-1.8.1-2.ph2  
>>> libgpg-error-1.27-1.ph2  
>>> systemd-233-18.ph2

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>>> gmp-6.1.2-2.ph2

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>>> glib-2.52.1-3.ph2

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>>> nspr-4.15-1.ph2  
>>> nss-3.31.1-1.ph2

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spec-e072eb2390d3a03736a6eb617d30f48369160447.tar.gz\spec-e072eb2390d3a03736a6eb617d30f48369160447.tar\spec-e072eb2390d3a03736a6eb617d30f48369160447\fixtures\expansion\invalid-refs.json

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>>> go-openapi\_strfmt-0cb3db44c13bad3b3f567b762a66751972a310cc

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>>> golang\_glog-23def4e6c14b4da8ac2ed8007337bc5eb5007998

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

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go4-7ce08ca145dbe0e66a127c447b80ee7914f3e4f9.tar.gz\go4-
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```

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>>> vishvananda_netlink-482f7a52b758233521878cb6c5904b6bd63f3457
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>>> vishvananda_netns-604eaf189ee867d8c147fafc28def2394e878d25
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dfa61ae24628a06502b9c2805d983b57e89399b5\examples\compute.go
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>>> [azure\\_go-ansiterm-70b2c90b260171e829f1ebd7c17f600c11858dbe](#)

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>>> boltdb\_bolt-b514920f8f2e0a68f857e5a12c774f385a59aef9

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>>> client9\_misspell-9a1fc2456ac9e8c9b4cbe9d005b6e7adac0d357f

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>>> codegangsta\_cli-master

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>>> cpuguy83\_go-md2man\_md2man-a65d4d2de4d5f7c74868dfa9b202a3c8be315aaa

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>>> d2g_dhcp4-f0e4d29ff0231dce36e250b2ed9ff08412584bca
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>>> dustin\_go-humanize-259d2a102b871d17f30e3cd9881a642961a1e486

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>>> gemnasium\_logrus-airbrake-hook\_v2-31e6fd4bd5a98d8ee7673d24bc54ec73c31810dd

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check-20d25e2804050c1cd24a7eea1e7a6447dd0e74ec.tar.gz|check-
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20d25e2804050c1cd24a7eea1e7a6447dd0e74ec|benchmark.go
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>>> go-martini/martini-22fa46961aab2665cf3f1343b146d20028f5071

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```

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```
>>> godbus_dbus-230e4b23db2fd81c53eaa0073f76659d4849ce51
```

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>>> gogo\_protobuf\_gogoproto-6a92c871a8f5333cf106b2cdf937567208dbb2b7

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6a92c871a8f5333cf106b2cdf937567208dbb2b7\vanity\test\proto3.proto

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>>> gorilla\_sessions-ca9ada44574153444b00d3fd9c8559e4cc95f896

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>>> graylog2\_go-gelf\_gelf-master

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a30252cb686a21eb2d0b98132633053ec2f7f1e5\vendor\gopkg.in\fsnotify.v1\LICENSE
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>>> julienschmidt/httprouter-975b5c4c7c21c0e3d2764200bf2aa8e34657ae6e

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>>> mailru\_easyjson-99e922cf9de1bc0ab38310c277cff32c2147e747

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>>> martini-contrib/render-ec18f8345a1181146728238980606fb1d6f40e8c

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>>> mdlayher/raw-c83864e487652c25edc58048eafdc1dfa2f142c7
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```
>>> microsoft_go-winio-24a3e3d3fc7451805e09d11e11e95d9a0a4f205e
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>>> nsf\_termbox-go-91bae1bb5fa9ee504905ecbe7043fa30e92feaa3

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>>> racksec\_srslog-a974ba6f7fb527d2ddc73ee9c05d3e2ccc0af0dc

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>>> stretchr\_objx-1a9d0bb9f541897e62256577b352fdb1fb4fd94

objx - by Mat Ryer and Tyler Bunnell

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>>> tomb\_v1-dd632973f1e7218eb1089048e0798ec9ae7dceb8

tomb - support for clean goroutine termination in Go.

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>>> tylerb/graceful.v1-4654dfbb6ad53cb5e27f37d99b02e16c1872fbbb

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>>> ugorji\_go\_codec-708a42d246822952f38190a8d8c4e6b16a0e600c

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>>> urfave/negroni-ccc4a14984828dcb944e6f17fa4a967b18624f2b

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```
>>> urfave_cli_v1-0bdeedeeb0f650497d603c4ad7b20cfe685682f6
```

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```
>>> x_crypto_acme-728b753d0135da6801d45a38e6f43ff55779c5c2
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crypto-728b753d0135da6801d45a38e6f43ff55779c5c2.tar.gz|crypto-
728b753d0135da6801d45a38e6f43ff55779c5c2.tar|crypto-
728b753d0135da6801d45a38e6f43ff55779c5c2\pkcs12\internal\rc2\rc2.go
```

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```
>>> x_crypto_curve25519-728b753d0135da6801d45a38e6f43ff55779c5c2
```

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```

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```
>>> x_crypto_ed25519-728b753d0135da6801d45a38e6f43ff55779c5c2
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```

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See <http://libtom.org/?page=features&newsitems=5&whatfile=crypt>.

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It was heavily inspired by the go blowfish package.

```
>>> x_crypto_nacl_secretbox-728b753d0135da6801d45a38e6f43ff55779c5c2
```

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728b753d0135da6801d45a38e6f43ff55779c5c2.tar\crypto-
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>>> x\_crypto\_salsa20\_salsa-728b753d0135da6801d45a38e6f43ff55779c5c2

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```

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>>> x\_sync\_singleflight-5a06fca2c336a4b2b2fcb45702e8c47621b2aa2c

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>>> x\_sys\_unix-99f16d856c9836c42d24e7ab64ea72916925fa97

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>>> x\_sys\_windows-99f16d856c9836c42d24e7ab64ea72916925fa97

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>>> x\_text\_internal-f28f36722d5ef2f9655ad3de1f248e3e52ad5ebd

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>>> x\_text\_language-f28f36722d5ef2f9655ad3de1f248e3e52ad5ebd

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381149a2d6e5d8f319ccf04bfefc71e03a78b868\godoc\short\short.go
```

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+build appengine

Package short implements a simple URL shortener, serving an administrative  
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It is designed to run only on the instance of godoc that serves [golang.org](http:golang.org).  
package short

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381149a2d6e5d8f319ccf04bfefc71e03a78b868\third_party\typescript\typescript.js
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lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c



lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

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include/ipropr\_hdr.h  
kadmin/server/ipropr\_svc.c  
lib/kdb/ipropr.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
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Since the original authors were generous enough to donate their work to the public domain, I feel compelled to match their generosity.

Tim Kientzle, February 2009.

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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

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

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

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

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SHA-1 in C

By Steve Reid <sreid@sea-to-sky.net>

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

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

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

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

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-----

Written by: Philip Hazel

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fitblk.c: example of fitting compressed output to a specified size

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cvtnum routine taken from xfsprogs,

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mkinstalldirs --- make directory hierarchy

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chkconfig: 2345 11 89  
description: sets up CBQ-based traffic control

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IPv6 Hop Limit Target module

Maciej Soltysiak <solt@dns.toxicfilms.tv>

Based on HW's ttl target

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SYN signatures. Those signatures work for SYN packets only (duh!).

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Reasonably optimised generic C-code for memcpy on Microblaze  
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```

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```
linux-esx-4.9.154-1.ph2.src.rpm|linux-esx-4.9.154-1.ph2.src.cpio|linux-4.9.154.tar.xz|linux-4.9.154.tar|linux-4.9.97|arch|parisc|lib|memset.c
```

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

<http://lwn.net/Kernel/LDD3/>

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

Please send questions/comments/patches about Linux PCI API to the "Linux PCI" <[linux-pci@atrey.karlin.mff.cuni.cz](mailto:linux-pci@atrey.karlin.mff.cuni.cz)> mailing list.

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Written by Andrew Lutomirski, 2011-2014.

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```

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```

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```

```
>>> net-tools-1.60-11.ph2
```

```
Version: $Id: ax25_gr.c,v 1.4 1999/01/05 20:53:21 philip Exp $
```

```
Author: Bernd Eckenfels, <ecki@lina.inka.de>
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mkinstalldirs --- make directory hierarchy

Author: Noah Friedman <friedman@prep.ai.mit.edu>

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pmap.c - print process memory mapping

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line - read one line

Gunnar Ritter, Freiburg i. Br., Germany, December 2000.

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uuidparse.c --- Interpret uuid encoded information. This program violates the UUID abstraction barrier by reaching into the guts of a UUID.

Based on libuuid/src/uuid\_time.c  
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From Simon Josefsson  
-- derivated from coreutils m4/warnings.m4

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setpwnam.c -- edit an entry in a password database.

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Edited 11/10/96 (DD/MM/YY ;- ) by Nicolai Langfeldt (janl@math.uio.no)  
to read /etc/passwd directly so that passwd, chsh and chfn can work on machines that run NIS (previously YP). Changes will not be made to usernames starting with +.

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Usage:

- 1) get a struct passwd from getpwnam().  
You should assume a struct passwd has an infinite number of fields, so you should not try to create one from scratch.
- 2) edit the fields you want to edit.
- 3) call setpwnam() with the edited struct passwd.

A `_normal user_` program should never directly manipulate `etc/passwd` but /use `getpwnam()` and `(family, as well as) setpwnam()`.

But, `setpwnam` was made to `_edit_` the password file. For use by `chfn`, `chsh` and `passwd`. `_I_ _HAVE_` to read and write `/etc/passwd` directly. Let those who say may be forever silent and think about how `getpwnam` (and `family`) works on a machine running YP.

Added checks for failure of `malloc()` and removed error reporting to `stderr`, this is a library function and should not print on the screen, but return appropriate error codes.

27-Jan-97 - poe@daimi.aau.dk

Thanks to "two guys named Ian".

\$Author: poer \$

\$Revision: 1.13 \$

\$Date: 1997/06/23 08:26:29 \$

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Python bindings for the `libmount` library.

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Written by Ondrej Oprala and Karel Zak

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Bison implementation for Yacc-like parsers in C

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Bison interface for Yacc-like parsers in C

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(Mostly) portable public-domain implementation -- D A Gwyn

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There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any

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alloca.c -- allocate automatically reclaimed memory  
(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library alloca function, which is used to allocate space off the run-time stack so that it is automatically reclaimed upon procedure exit, was inspired by discussions with J. Q. Johnson of Cornell. J. Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

As a special case, alloca(0) reclaims storage without allocating any. It is a good idea to use alloca(0) in your main control loop, etc. to force garbage collection.

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/

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DRBG: Deterministic Random Bits Generator

Based on NIST Recommended DRBG from NIST SP800-90A with the following properties:

CTR DRBG with DF with AES-128, AES-192, AES-256 cores

Hash DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores

HMAC DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores

with and without prediction resistance

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Factoring with Pollard's rho method.

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Test Socket Type

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Version 2, June 1991

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

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

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

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

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

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

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

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

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

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

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

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1

above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do

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

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

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline



functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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

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

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

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

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

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

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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How to Apply These Terms to Your New Libraries

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

<one line to give the library's name and a brief idea of what it does.>  
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Also add information on how to contact you by electronic and paper mail.

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

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

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

That's all there is to it!

----- SECTION 5: GNU Lesser General Public License, V2.1 -----

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

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

#### Preamble

The licenses for most software are designed to take away your  
freedom to share and change it. By contrast, the GNU General Public  
Licenses are intended to guarantee your freedom to share and change  
free software--to make sure the software is free for all its users.

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specially designated software packages--typically libraries--of the  
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can use it too, but we suggest you first think carefully about whether  
this license or the ordinary General Public License is the better  
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,  
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for this service if you wish); that you receive source code or can get  
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To protect your rights, we need to make restrictions that forbid  
distributors to deny you these rights or to ask you to surrender these  
rights. These restrictions translate to certain responsibilities for  
you if you distribute copies of the library or if you modify it.

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

We protect your rights with a two-step method: (1) we copyright the  
library, and (2) we offer you this license, which gives you legal

permission to copy, distribute and/or modify the library.

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

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

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

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

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

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

In other cases, permission to use a particular library in non-free

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

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

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

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based



on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

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

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those

sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or

linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

Section 6 states terms for distribution of such executables.

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

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

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

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked

with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

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

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

permitted, and provided that you do these two things:

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

Version 1.1 - 26 February 2007

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LPPL Version 1.3c 2008-05-04

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Frequently Asked Questions pertaining to Nomad Enterprise Licensing.

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## # Frequently Asked Questions (FAQ)

This FAQ is for the license changes introduced in Nomad Enterprise version v1.1.0+ent.

Nomad Enterprise automatically load Nomad licenses when a Nomad server agent starts using Nomad Enterprise.

## Q: Can I get a quick summary of the Nomad changes?

Starting with Nomad Enterprise v1.1.0, the license enablement process is different.

HashiCorp Enterprise servers will no longer start without a license. When the server instance initializes the license watcher, the server reads from either an environment variable or file. If the license is missing, invalid, or expired, the server will immediately exit.

This check is part of the server boot-up process.

In previous versions of HashiCorp enterprise products, one server could distribute a license to other servers via the Raft protocol.

This will no longer work since each server must be able to find a valid license during the startup process.

## Q: What resources are available?

The list below is a great starting point for learning more about the license changes introduced in Nomad Enterprise v1.1.0

- [v1.1.0 Upgrade Guide](<https://www.nomadproject.io/docs/upgrade/upgrade-specific#enterprise-licenses>)

- [Nomad License Documentation](<https://www.nomadproject.io/docs/enterprise/license>)

- [License configuration values documentation]([https://www.nomadproject.io/docs/configuration/server#license\\_path](https://www.nomadproject.io/docs/configuration/server#license_path))

- [Install a HashiCorp Enterprise License Tutorial](<https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license>)

## Q: Does this affect Nomad or older versions of Nomad?

This change only affects Nomad Enterprise version v1.1.0+ent and later.

## Q: Does the license have to be present on Nomad client nodes?

Only Nomad server nodes need to have the license present.

Nomad agents running with the `-dev` flag will also need a license.`

## Q: What are some pitfalls that could be experienced during an upgrade because of the license changes?

If you follow the steps in the [upgrade guide](<https://www.nomadproject.io/docs/upgrade/upgrade->

specific#enterprise-licenses), but have misconfigured the licensing steps, the server instances will stop during boot-up sequence.

If you do not check cluster health after adding new servers, and verify that the new servers have joined properly, then you may accidentally take down old servers without replacing them.

If you are using a trial license in production, this could cause issues as the cluster will fail to start once the trial expires.

If you have built automation around ``nomad license put``, this command will fail as it has been removed from Nomad v1.1.0+.

## Q: What are some other gotchas?

You might not have access to your organization's Nomad license.

The 6-hour temporary license window is now removed, and a license is required for proper boot-up.

Running ``nomad agent -dev`` without a license will fail.

## Q: How can a user get their existing license to put on disk for an upgrade?

If you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email [support-software@hashicorp.com](mailto:support-software@hashicorp.com) for information on how to get your organization's enterprise license.

You can use ``nomad license get`` to retrieve information about the license, but not the license itself.

## Q: What happens when a license expires?

If a license expires after a server node joins the cluster, the existing Enterprise features will continue to operate until a grace period expires.

The grace period duration is 1 day, and upon the end of the grace period the Nomad servers will shut down.

## Q: Will on-prem binaries with baked-in licenses work?

There is no impact to baked-in licensed binaries.

## Q: Are licenses cluster-specific? node-specific?

Licenses can be reused on different nodes and different clusters.

## Q: Where can users get a trial license for Nomad?

Visit <https://nomadproject.io/trial> for a free 30-day trial license.

## Q: When a Nomad client agent restarts, will it still need a license file?

Every time ``nomad agent`` runs as a server (or in ``-dev``), it requires a license.

## Q: May I downgrade Nomad Enterprise from v1.1.0 to an earlier version?

Nomad cannot safely be rolled back to an earlier version.

This is not a supported operation due to the Nomad state store not having forward compatibility. The end result could be a crash loop.

## Q: Is there a tutorial available for the license configuration steps?

Please visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license).

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Alrux Go EXTensions (AGExt) - package levenshtein

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Paul Borman <borman@google.com>

bmatsuo

shawnps

theory

jboverfelt

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=====  
Portions of the client are based on code at:

<https://github.com/google/go-github/>

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package command

```
import (
 "fmt"
 "strings"
 "time"

 "github.com/hashicorp/nomad/api"
 "github.com/mitchellh/cli"
)

var _ cli.Command = &LicenseCommand{

type LicenseCommand struct {
 Meta
}

func (l *LicenseCommand) Help() string {
 helpText := `
Usage: nomad license <subcommand> [options] [args]
```

This command has subcommands for managing the Nomad Enterprise license.

For more detailed examples see:

<https://www.nomadproject.io/docs/commands/license/>

Retrieve the server's license:

```
$ nomad license get

`
return strings.TrimSpace(helpText)
}

func (l *LicenseCommand) Synopsis() string {
 return "Interact with Nomad Enterprise License"
}

func (l *LicenseCommand) Name() string { return "license" }

func (l *LicenseCommand) Run(args []string) int {
 return cli.RunResultHelp
}
```

```

func OutputLicenseReply(ui cli.Ui, resp *api.LicenseReply) int {
 now := time.Now()
 expired := resp.License.ExpirationTime.Before(now)
 outputLicenseInfo(ui, resp.License, expired)
 if expired {
 return 1
 }
 return 0
}

func outputLicenseInfo(ui cli.Ui, lic *api.License, expired bool) {
 expStr := ""
 if expired {
 expStr = fmt.Sprintf("Expired At%s", lic.ExpirationTime.String())
 } else {
 expStr = fmt.Sprintf("Expires At%s", lic.ExpirationTime.String())
 }

 validity := "valid"
 if expired {
 validity = "expired!"
 }

 output := []string{
 fmt.Sprintf("Product%s", lic.Product),
 fmt.Sprintf("License Status%s", validity),
 fmt.Sprintf("License ID%s", lic.LicenseID),
 fmt.Sprintf("Customer ID%s", lic.CustomerID),
 fmt.Sprintf("Issued At%s", lic.IssueTime),
 expStr,
 fmt.Sprintf("Datacenter%s", lic.InstallationID),
 }
 ui.Output(formatKV(output))

 if len(lic.Modules) > 0 {
 ui.Output("Modules:")
 for _, mod := range lic.Modules {
 ui.Output(fmt.Sprintf("\t%s", mod))
 }
 }
 if len(lic.Features) > 0 {
 ui.Output("Licensed Features:")
 for _, f := range lic.Features {
 ui.Output(fmt.Sprintf("\t%s", f))
 }
 }
}

```

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package datatypes

// no documentation yet

type Legal\_RegulatedWorkload struct {

Entity

```

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

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

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

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

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

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

// no documentation yet
type Legal_RegulatedWorkload_Type struct {
 Entity

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

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

// no documentation yet
 Name *string `json:"name,omitempty" xmlrpc:"name,omitempty"`
}

```

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package command

```
import (
 "testing"
 "time"

 "github.com/hashicorp/nomad/api"
 "github.com/mitchellh/cli"
 "github.com/stretchr/testify/require"
)

var _ cli.Command = &LicenseGetCommand{ }

func TestCommand_LicenseGet_OSSErr(t *testing.T) {
 t.Parallel()

 srv, _, url := testServer(t, false, nil)
 defer srv.Shutdown()

 ui := cli.NewMockUi()
 cmd := &LicenseGetCommand{Meta: Meta{Ui: ui}}

 code := cmd.Run([]string{"-address=" + url})
 if srv.Enterprise {
 require.Equal(t, 0, code)
 } else {
```



```

require.Equal(t, 1, code)
require.Contains(t, ui.ErrorWriter.String(), "Nomad Enterprise only endpoint")
}
}

```

```

func TestOutputLicenseReply(t *testing.T) {
now := time.Now()
lic := &api.LicenseReply{
License: &api.License{
LicenseID: "licenseID",
CustomerID: "customerID",
InstallationID: "*",
IssueTime: now,
StartTime: now,
ExpirationTime: now.Add(1 * time.Hour),
TerminationTime: now,
Product: "nomad",
Flags: map[string]interface{}{
"": nil,
},
},
}
}

```

```
ui := cli.NewMockUi()
```

```
require.Equal(t, 0, OutputLicenseReply(ui, lic))
```

```

out := ui.OutputWriter.String()
require.Contains(t, out, "Customer ID")
require.Contains(t, out, "License ID")
}

```

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Protocol Buffers for Go with Gadgets

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

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This is the Debian GNU/Linux repackaged version of the GNU compiler collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C, Objective-C++, and Modula-2 compilers, documentation, and support libraries. In addition, Debian provides the gm2 compiler, either in the same source package, or built from a separate same source package.

Packaging is done by the Debian GCC Maintainers  
<debian-gcc@lists.debian.org>, with sources obtained from:

<ftp://gcc.gnu.org/pub/gcc/releases/> (for full releases)

<svn://gcc.gnu.org/svn/gcc/> (for prereleases)

<ftp://sourceware.org/pub/newlib/> (for newlib)

<git://git.savannah.gnu.org/gm2.git> (for Modula-2)

The current gcc-10 source package is taken from the SVN gcc-10-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

| Language | Compiler package | Library package | Documentation |
|----------|------------------|-----------------|---------------|
|----------|------------------|-----------------|---------------|

|             |             |              |                   |
|-------------|-------------|--------------|-------------------|
| Ada         | gnat-10     | libgnat-10   | gnat-10-doc       |
| BRIG        | gccbrig-10  | libhsail-rt0 |                   |
| C           | gcc-10      |              | gcc-10-doc        |
| C++         | g++-10      | libstdc++6   | libstdc++6-10-doc |
| D           | gdc-10      |              |                   |
| Fortran 95  | gfortran-10 | libgfortran5 | gfortran-10-doc   |
| Go          | gccgo-10    | libgo0       |                   |
| Objective C | gobjc-10    | libobjc4     |                   |

Objective C++ gobjc++-10

Modula-2 gm2-10 libgm2

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

| Language | Sources          | Development       | Debugging         | Position-Independent |
|----------|------------------|-------------------|-------------------|----------------------|
| C++      |                  | libstdc++6-10-dbg | libstdc++6-10-pic |                      |
| D        | libphobos-10-dev |                   |                   |                      |

Additional packages include:

All languages:

|                           |                                     |
|---------------------------|-------------------------------------|
| libgcc1, libgcc2, libgcc4 | GCC intrinsics (platform-dependent) |
| gcc-10-base               | Base files common to all compilers  |
| gcc-10-soft-float         | Software floating point (ARM only)  |
| gcc-10-source             | The sources with patches            |

Ada:

libgnat-util10-dev, libgnat-util10 GNAT version library

C:

|                      |                                       |
|----------------------|---------------------------------------|
| cpp-10, cpp-10-doc   | GNU C Preprocessor                    |
| libssp0-dev, libssp0 | GCC stack smashing protection library |
| libquadmath0         | Math routines for the __float128 type |
| fixincludes          | Fix non-ANSI header files             |

C, C++ and Fortran 95:

libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library  
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libatomic
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- libgomp
- libitm
- libssp
- libstdc++-v3
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Cephes Math Library Release 2.2: January, 1991

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D:

gdc-10                    GNU D Compiler

libphobos-10-dev          D standard runtime library

The D source package is made up of the following components.

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- d/\*

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- d/dmd/\*

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- d/phobos/\*

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gcc/m2/gm2-libiberty:

gcc/m2/mc-boot/:

gcc/m2/mc-boot-ch/:

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gcc/m2/gm2-coroutines:

gcc/m2/gm2-libs:

gcc/m2/gm2-libs-min:

gcc/m2/gm2-libs-pim:

gcc/m2/gm2-libs-ch:

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gcc/m2/gm2-libs-iso/\*\*.def:

Library module defined by the International Standard

Information technology - programming languages  
BS ISO/IEC 10514-1:1996E Part 1: Modula-2, Base Language.

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gcc/testsuite/gm2/:

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libgm2/libpim/:

libgm2/liblog/:

libgm2/libcor/:

libgm2/libmin/:

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\* /opt/cola/permits/1154536577\_1619821071.38/0/x-time-rate-v0-0-0-20200416051211-89c76fbcd5d1-zip/rate.go



# 1.64 andreyvit-diff v0.0.0-20170406064948-c7f18ee00883

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