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Contents

1.1 consul 1.8.0

1.1.1 Available under license

1.1 consul 1.8.0

1.1.1 Available under license :

(The MIT License)

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layout: docs

page_title: 'Commands: License'

sidebar_title: license

description: >

The license command provides datacenter-level management of the Consul Enterprise license.

Consul License

Command: ``consul license``

<EnterpriseAlert />

The ``license`` command provides datacenter-level management of the Consul Enterprise license. This was added in Consul 1.1.0.

If ACLs are enabled then a token with operator privileges may be required in order to use this command. Requests are forwarded internally to the leader if required, so this can be run from any Consul node in a cluster. See the [ACL Guide](<https://learn.hashicorp.com/consul/security-networking/production-acls>) for more information.

```text

Usage: `consul license <subcommand> [options] [args]`

This command has subcommands for managing the Consul Enterprise license. Here are some simple examples, and more detailed examples are available in the subcommands or the documentation.

Install a new license from a file:

```
$ consul license put @consul.license
```

Install a new license from stdin:

```
$ consul license put -
```

Install a new license from a string:

```
$ consul license put "<license blob>"
```

Retrieve the current license:

```
$ consul license get
```

Reset the current license:

```
$ consul license reset
```

For more examples, ask for subcommand help or view the documentation.

Subcommands:

|     |                                      |
|-----|--------------------------------------|
| get | Get the current license              |
| put | Puts a new license in the datacenter |

```
reset Resets the license in the datacenter
...
```

```
put
```

This command sets the Consul Enterprise license.

Usage: `consul license put [options] LICENSE`

```
API Options
```

```
@include 'http_api_options_client.mdx'
```

```
@include 'http_api_options_server.mdx'
```

The output looks like this:

```
```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
...

```

```
## get
```

This command gets the Consul Enterprise license.

Usage: `consul license get [options]`

```
#### API Options
```

```
@include 'http_api_options_client.mdx'
```

```
@include 'http_api_options_server.mdx'
```

The output looks like this:

```
```text
```

```
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
 Automated Backups
 Automated Upgrades
 Enhanced Read Scalability
 Network Segments
 Redundancy Zone
 Advanced Network Federation
...

```

```
reset
```

Resets license for the datacenter to the one builtin in Consul binary, if it is still valid.  
If the builtin license is invalid, the current one stays active.

```
Usage: `consul license reset [options]`
```

```
API Options
```

```
@include 'http_api_options_client.mdx'
```

```
@include 'http_api_options_server.mdx'
```

The output looks like this:

```
```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
    Automated Backups
    Automated Upgrades
    Enhanced Read Scalability
    Network Segments
    Redundancy Zone
    Advanced Network Federation
...

```

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layout: api

page_title: License - Operator - HTTP API

sidebar_title: License

description: |-

The /operator/license endpoints allow for setting and retrieving the Consul Enterprise License.

License - Operator HTTP API

<EnterpriseAlert />

The licensing functionality described here is available only in [Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

Getting the Consul License

This endpoint gets information about the current license.

Method	Path	Produces
GET	/operator/license	application/json

The table below shows this endpoint's support for [blocking queries](/api/features/blocking), [consistency modes](/api/features/consistency), [agent caching](/api/features/caching), and [required ACLs](/api#authentication).

Blocking Queries	Consistency Modes	Agent Caching	ACL Required
-----	-----	-----	-----
`NO`	`all`	`none`	`none`

Parameters

- `dc` (string: "") - Specifies the datacenter whose license should be retrieved. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

Sample Request

```
```text
$ curl \
 http://127.0.0.1:8500/v1/operator/license
```
```

Sample Response

```
```json
{
 "Valid": true,
 "License": {
 "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
 "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
 "installation_id": "*",
 "issue_time": "2018-05-21T20:03:35.911567355Z",
 "start_time": "2018-05-21T04:00:00Z",
 "expiration_time": "2019-05-22T03:59:59.999Z",
 "product": "consul",
 "flags": {
 "package": "premium"
 },
 },
 "features": [
 "Automated Backups",
 "Automated Upgrades",
 "Enhanced Read Scalability",
 "Network Segments",
 "Redundancy Zone",
 "Advanced Network Federation"
],
}
```

```

 "temporary": false
 },
 "Warnings": []
}
...

```

### ## Updating the Consul License

This endpoint updates the Consul license and returns some of the license contents as well as any warning messages regarding its validity.

Method	Path	Produces
PUT	/operator/license	application/json

The table below shows this endpoint's support for [blocking queries](/api/features/blocking), [consistency modes](/api/features/consistency), [agent caching](/api/features/caching), and [required ACLs](/api#authentication).

Blocking Queries	Consistency Modes	Agent Caching	ACL Required
NO	none	none	operator:write

### ### Parameters

- `dc` (string: "") - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### ### Sample Payload

The payload is the raw license blob.

### ### Sample Request

```

```text
$ curl \
  --request PUT \
  --data @consul.license \
  http://127.0.0.1:8500/v1/operator/license
...

```

Sample Response

```

```json
{

```



```

"Valid": true,
"License": {
 "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
 "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
 "installation_id": "*",
 "issue_time": "2018-05-21T20:03:35.911567355Z",
 "start_time": "2018-05-21T04:00:00Z",
 "expiration_time": "2019-05-22T03:59:59.999Z",
 "product": "consul",
 "flags": {
 "package": "premium"
 },
 "features": [
 "Automated Backups",
 "Automated Upgrades",
 "Enhanced Read Scalability",
 "Network Segments",
 "Redundancy Zone",
 "Advanced Network Federation"
],
 "temporary": false
},
"Warnings": []
}
```

```

Resetting the Consul License

This endpoint resets the Consul license to the license included in the Enterprise binary. If the included license is not valid, the replace will fail.

| Method | Path | Produces |
|--------|-------------------|------------------|
| DELETE | /operator/license | application/json |

The table below shows this endpoint's support for [blocking queries](/api/features/blocking), [consistency modes](/api/features/consistency), [agent caching](/api/features/caching), and [required ACLs](/api#authentication).

| Blocking Queries | Consistency Modes | Agent Caching | ACL Required |
|------------------|-------------------|---------------|----------------|
| NO | none | none | operator:write |

Parameters

- `dc` (string) - Specifies the datacenter whose license should be updated.

This will default to the datacenter of the agent serving the HTTP request.
This is specified as a URL query parameter.

Sample Request

```
```text
$ curl \
 --request DELETE \
 http://127.0.0.1:8500/v1/operator/license
```
```

Sample Response

```
```json
{
 "Valid": true,
 "License": {
 "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
 "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
 "installation_id": "*",
 "issue_time": "2018-05-21T20:03:35.911567355Z",
 "start_time": "2018-05-21T04:00:00Z",
 "expiration_time": "2019-05-22T03:59:59.999Z",
 "product": "consul",
 "flags": {
 "package": "premium"
 },
 "features": [
 "Automated Backups",
 "Automated Upgrades",
 "Enhanced Read Scalability",
 "Network Segments",
 "Redundancy Zone",
 "Advanced Network Federation"
],
 "temporary": false
 },
 "Warnings": []
}
```
```

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```

```
# Names should be added to this file like so:
```

Name <email address>

Please keep the list sorted.

Damian Gryski <dgryski@gmail.com>
Jan Mercl <0xjnml@gmail.com>
Kai Backman <kaib@golang.org>
Marc-Antoine Ruel <maruel@chromium.org>
Nigel Tao <nigeltao@golang.org>
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border-width: 1px;
}
%notice-success,
%notice-info,
%notice-highlight,
%notice-error,
%notice-warning {
  @extend %notice;
}
%notice::before {
  @extend %as-pseudo;
}
%notice-success {
  @extend %frame-green-500;
}
%notice-info {
  @extend %frame-blue-500;
}
%notice-highlight {
  @extend %frame-gray-800;
}
%notice-warning {
  @extend %frame-yellow-500;
}
%notice-error {
  @extend %frame-red-500;
}
The MIT License (MIT)
```

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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
}
open_source_licenses.txt

```

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
```

SECTION 2: BSD-STYLE, MIT-STYLE, OR SIMILAR STYLE LICENSES

```
>>> 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-33e0aa1cb7c019ccc3fbe049a8262a6403d30504
>>> 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-22fa46961aab2665cf3f1343b146d20028f5071
>>> 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-b1a2821ca5a4fd6b6e48ddfb7d6d7584d839d21
>>> hpcloud_tail-a30252cb686a21eb2d0b98132633053ec2f7f1e5
>>> jessevdk_go-flags-97448c91aac742cbca3d020b3e769013a420a06f
>>> julienschmidt/httprouter-975b5c4c7c21c0e3d2764200bf2aa8e34657ae6e
>>> justinas/alice-1051eaf52fcfdd87ead59d28b065f1fcb8274ec
>>> 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-1a9d0bb9f541897e62256577b352fdbcf1fb4fd94
>>> 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
>>> poprt-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

SECTION 4: GNU General Public License, V2.0

>>> 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

SECTION 5: GNU General Public License, V3.0

```
>>> 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
```

SECTION 6: GNU Lesser General Public License, V2.1

```
>>> 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
```

SECTION 7: GNU Lesser General Public License, V3.0

```
>>> gmp-6.1.2-2.ph2
```

SECTION 8: GNU Library General Public License, V2.0

```
>>> glib-2.52.1-3.ph2
```

SECTION 9: Mozilla Public License, V2.0

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

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```

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

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```
google-api-go-client-dfa61ae24628a06502b9c2805d983b57e89399b5.tar.gz\google-api-go-client-  
dfa61ae24628a06502b9c2805d983b57e89399b5(1).tar\google-api-go-client-  
dfa61ae24628a06502b9c2805d983b57e89399b5\examples\compute.go
```

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```
>>> armon_go-metrics-f303b03b91d770a11a39677f1d3b55da4002bbcb
```

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```
>>> armon_go-radix-4239b77079c7b5d1243b7b4736304ce8ddb6f0f2
```

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>>> asaskevich_govalidator-9699ab6b38bee2e02cd3fe8b99ecf67665395c96

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>>> azure_go-ansiterm-70b2c90b260171e829f1ebd7c17f600c11858dbe

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>>> boltddb_bolt-b514920f8f2e0a68f857e5a12c774f385a59aef9

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>>> cenkalti_backoff-b02f2bbce11d7ea6b97f282ef1771b0fe2f65ef3

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>>> client9_misspell-9a1fc2456ac9e8c9b4cbe9d005b6e7adac0d357f

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>>> codeganga/inject-33e0aa1cb7c019ccc3fbe049a8262a6403d30504

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>>> codegangsta_cli-master

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>>> cpuguy83_go-md2man_md2man-a65d4d2de4d5f7c74868dfa9b202a3c8be315aaa

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go-md2man-a65d4d2de4d5f7c74868dfa9b202a3c8be315aaa.tar.gz\go-md2man-
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```
>>> d2g_dhcp4-f0e4d29ff0231dce36e250b2ed9ff08412584bca
```

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>>> deckarep_golang-set-1f0f4ff8d3fbef9328522993ce71c35890f67554

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>>> dustin_go-humanize-259d2a102b871d17f30e3cd9881a642961a1e486

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>>> gemnasium_logrus-airbrake-hook_v2-31e6fd4bd5a98d8ee7673d24bc54ec73c31810dd

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>>> gizak_termui-798ffb9cbbe4073ef1f88e6069ca4a2c6aa6676b

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```
>>> go-martini/martini-22fa46961aab2665cf3f1343b146d20028f5071
```

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42fca177a36031d648551c751de1daf5f55dd4f0\nfs\util\log.go

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>>> godbus_dbus-230e4b23db2fd81c53eaa0073f76659d4849ce51

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>>> gogo_protobuf_gogoproto-6a92c871a8f5333cf106b2cdf937567208dbb2b7

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<http://github.com/gogo/protobuf>

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

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>>> goji/param-d7f49fd7d1ed53fd562e737a8b5bbcc7e3d925e2

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>>> golang_lint-cb00e5669539f047b2f4c53a421a01b0c8e172c6

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>>> google_go-querystring_query-53e6ce116135b80d037921a7fdd5138cf32d7a8a

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>>> google_uuid-f3f4b54b2fabcf1f11dcc939025bb0c109b00ed8

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```

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```
>>> googleapis_gax-go-da06d194a00e19ce00d9011a13931c3f6f6887c7
```

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>>> gorilla_securecookie-fa5329f913702981df43dcb2a380bac429c810b5

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>>> graylog2_go-gelf_gelf-master

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>>> grpc-b1a2821ca5a4fd6b6e48ddfbb7d6d7584d839d21

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>>> jessevdk_go-flags-97448c91aac742cbca3d020b3e769013a420a06f
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>>> julienschmidt/httprouter-975b5c4c7c21c0e3d2764200bf2aa8e34657ae6e

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>>> mattn_go-runewidth-14207d285c6c197daabb5c9793d63e7af9ab2d50

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>>> mreiferson_go-httpclient-31f0106b4474f14bc441575c19d3a5fa21aa1f6c

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>>> naoina_denco-9af2ba0e24214bac003821f4a501b131b2e04c75

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>>> opennota_urlesc-5fa9ff0392746aeae1c4b37fcc42c65afa7a9587

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>>> pkg_profile-8a808a6967b79da66deacfe508b26d398a69518f

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>>> racksec_srslog-a974ba6f7fb527d2ddc73ee9c05d3e2ccc0af0dc

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>>> stretchr_objx-1a9d0bb9f541897e62256577b352fdbcf1fb4fd94

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tomb - support for clean goroutine termination in Go.

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

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+build appengine

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

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>>> curl-7.59.0-4.ph2

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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

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprof_hdr.h
kadmin/server/iprofd_svc.c
lib/kdb/iprof.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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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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=====

ASM: a very small and fast Java bytecode manipulation framework

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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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Upstream source <http://invisible-island.net/ncurses/ncurses-examples.html>

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

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

```
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```

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Machine description for AArch64 architecture.

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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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his C header file is part of the SoftFloat IEC/IEEE Floating-point

Arithmetic Package, Release 2.

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

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```

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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> mailing list.

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Written by Andrew Lutomirski, 2011-2014.

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```

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mkinstalldirs --- make directory hierarchy

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line - read one line

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

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uidparse.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.

(c) 1994 Salvatore Valente <svalente@mit.edu>

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

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Usage:

1) get a struct passwd from getpwnam().

You should assume a struct passwd has an infinite number of fields, so you should not try to create one from scratch.

- 2) edit the fields you want to edit.
- 3) call `setpwnam()` with the edited struct `passwd`.

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

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

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

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

Thanks to "two guys named Ian".

\$Author: poer \$

\$Revision: 1.13 \$

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

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Python bindings for the `libmount` library.

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Written by Ondrej Oprala and Karel Zak

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Bison implementation for Yacc-like parsers in C

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Bison interface for Yacc-like parsers in C

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

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

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

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

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

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

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

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

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

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Heavily modified for GnuPG by Werner Koch

/

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[Here is the notice from lib_rand.c:]

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DRBG: Deterministic Random Bits Generator

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

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

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

HMAC DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
with and without prediction resistance

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Factoring with Pollard's rho method.

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Bison implementation for Yacc-like parsers in C

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Test Socket Type

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

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

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

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

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

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

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

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

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:

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Ty Coon, President of Vice

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Version 2.1, February 1999

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

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

operating system, as well as its variant, the GNU/Linux operating system.

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

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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.)

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

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

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

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

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

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

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

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

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

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

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified

executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

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<one line to give the program's name and a brief idea of what it does.>  
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```
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```

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```
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```

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

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----- SECTION 21: SIL Open Font License, V1.1 -----

SIL OPEN FONT LICENSE

Version 1.1 - 26 February 2007

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LPPL Version 1.3c 2008-05-04

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```
[VIC152GAMS030419]
%notice {
  margin-bottom: 1em;
}
%notice-success::before {
  @extend %with-check-circle-fill-color-icon;
}
%notice-info::before {
  @extend %with-info-circle-fill-color-icon;
}
%notice-highlight::before {
  @extend %with-star-icon;
}
%notice-warning::before {
  @extend %with-alert-triangle-color-icon;
}
%notice-error::before {
  @extend %with-cancel-square-fill-color-icon;
}
/**/
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  @extend %notice-warning;
}
.notice.error {
  @extend %notice-error;
}
.notice.info {
  @extend %notice-info;
}
.notice.policy-management {
  @extend %notice-highlight;
}
```

}

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Portions of the client are based on code at:

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

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```
@import './skin';
```

```
@import './layout';
```

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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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```
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  padding: 1em;
}
/* this is probably skin */
%notice {
  padding-left: calc(1em + 32px);
}
%notice::before {
  position: absolute;
  left: 16px;
  top: 16px;
}
```

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Support for streaming Protocol Buffer messages for the Go language (golang).
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Protocol Buffers for Go with Gadgets

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

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